

COMPUTING RESEARCH NEWS



Computing Research Association
Uniting Industry, Academia and Government to
Advance Computing Research and Change the World.

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CRN At-A-Glance

2022 CRA Career Mentoring Workshop

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see page 3 for full article

Katherine Yelick Receives the 2022 CRA Distinguished Service Award

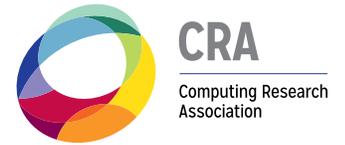
The Computing Research Association today announced it has selected Katherine Yelick, the Robert S. Pepper Distinguished Professor of Electrical Engineering and Computer Science at the University of California, Berkeley, as the recipient of the 2022 CRA Distinguished Service Award for her outstanding and sustained service contributions to the computing research community.

see page 2 for full article

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Katherine Yelick Receives the 2022 CRA Distinguished Service Award



The Computing Research Association today announced it has selected Katherine Yelick, the Robert S. Pepper Distinguished Professor of Electrical Engineering and Computer Science at the University of California, Berkeley, as the recipient of the 2022 CRA Distinguished Service Award for her outstanding and sustained service contributions to the computing research community.

Yelick has earned the reputation of the “go-to” person for advice to the government and the agencies within it, and to institutions of higher education on all aspects of advanced computing. She is respected for her sound judgment, her broad knowledge of computing research, and her willingness to work hard and get things done.

Yelick’s affiliation with the Lawrence Berkeley National Laboratory (LBNL), which complements her role as a tenured professor at University of California Berkeley, began with her appointment as a research scientist in 1996. She was appointed National Energy Research Scientific Computing (NERSC) Division Director in 2008. In 2010, she became Associate Laboratory Director (ALD) for Computing Sciences, the first computer scientist to serve in that role. She stepped down from that position at the end of 2019 and now assists the LBNL Director as Senior Advisor for Computing.

At the national level, Yelick worked with senior managers across the Department of Energy (DOE) national lab complex to launch the Exascale Computing Initiative, the largest DOE project of its kind. She also provided congressional testimony on “Big Data Challenges and Advanced Computing Solutions,” for the U.S. House Science, Space, and Technology Committee in 2018. Additionally, she served on the Computer Science and Telecommunications Board from 2011 to 2017 and contributed to the National Research Council of the National Academies of Science, Engineering, and Medicine. She also served on CRA’s Computing Community Consortium Council from 2015-2018.



Yelick has led efforts toward diversity, equity, and inclusion – important attributes for the future of our field. At LBNL, she improved the gender balance at all levels – postdocs, student interns, and professional leadership roles. At Berkeley, she has been the equity officer for faculty recruiting since 2014 and has been effective in leading the EECS faculty to diversify the ladder faculty through selection and successful recruitment of new faculty members.

About the Award and Selection Committee

The CRA Distinguished Service Award recognizes service in the areas of government affairs, professional societies, publications or conferences, and leadership that has a major impact on computing research.

CRA Awards Selection Committee:

Diana Franklin (University of Chicago)
Kim Hazelwood (Meta–Facebook AI Research)
Timothy Pinkston (University of Southern California), Chair

2022 CRA Career Mentoring Workshop

CRA hosted the 2022 CRA Career Mentoring Workshop in person on February 24-25 in Washington, DC. More than 120 participants engaged in a variety of panels and mentoring activities with senior researchers, including several CRA board members, and representatives from government agencies.

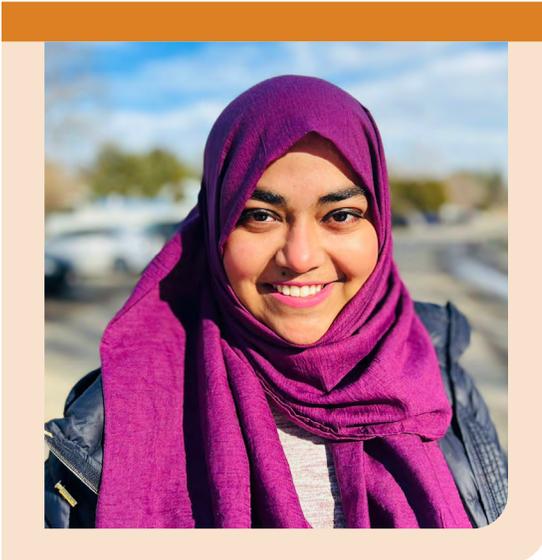
Before launching into the sessions, attendees were welcomed by CRA Board Chair Nancy Amato, CRA Vice Chair Dan Grossman, Incoming CRA Executive Director Tracy Camp and Workshop Organizer Mary Hall.

Panel topics ranged from "Planning Your Research Career" to "Time Management and Work-Life Balance." After an informal reception with CRA board members, participants continued building connections during a speed networking session. NSF CISE AD Margaret Martonosi provided an overview of NSF, CISE & BPC Plans, and NSF CISE Division Directors presented on their divisions. The workshop concluded with small group meetings with NSF CISE Program Directors. Click [here](#) for the full agenda and [workshop slides](#). Several sessions were recorded and will be published on the [workshop website](#) as a resource for the community.



CRA Education Committee Selects New Graduate Fellow

CRA's Education Committee (CRA-E) has recently selected its 2022 CRA-E Graduate Fellow - Yasra Chandio from the University of Massachusetts at Amherst.



Yasra (she/her) is a third-year Ph.D. student in Electrical and Computer Engineering at the University of Massachusetts, Amherst (UMASS). At UMASS she is working with Professor Fatima M. Anwar, and Yasra's research interests lie in the domain of extended reality (XR), embedded systems, and security. Before starting her Ph.D. at UMASS, she earned her Bachelor of Engineering focused on Software Engineering from Pakistan in 2014 and MS in Computer Science from Binghamton University (State University of New York) in 2019. Yasra is excited to be a CRA-E Graduate Fellow and serve CRA as a student ally, academic collaborator, and community mentor to encourage young students' interest to pursue a career in science and research.

As she prepares herself for her post-PhD life as an academic, she values mentorship as an important skill. Over the years, she has served different roles of mentors as teaching assistant, guest lecturer, research mentor, K-12 engineering workshop instructor, and organizer. During her academic career, she has actively sought out mentorship and community volunteer opportunities. She was a student scholar at Grace Hopper Celebration (GHC) in 2019, CRA-WP Grad Cohort (2021, 2022), N2Women, and Google CSRMP (2020). In addition to mentoring, she has been a part of competitive reviewing committees in the past including GHC (2021) and EuroSys shadow program committee (2022).

Currently, in her research, she is investigating the stealthiness of the multi-modal attack surface that is present in the mixed reality systems, by launching coordinated spatiotemporal attacks on sensor data. While she is not solving computational problems, she is either playing card games with her friends, baking bread, or cooking food from all over the world for her family and friends.

The CRA-E **Graduate Fellows Program** was established in 2015 to give graduate students the opportunity to contribute to **CRA-E projects** and promote computer science research and undergraduate education at the national level.

2022 CRA Conference at Snowbird Preliminary Agenda

Conference theme: Socially Responsible Computing Research

This year's CRA Conference at Snowbird will explore the tremendous opportunities for computing research to dramatically benefit the human condition, as well as the related responsibility for computing research to consider the risks inherent in the work we do. Ensuring socially responsible intentions and practices is critical to realizing the future potential of computing research.

Sessions will be broken down into four tracks:

Track 1: Computing Departments - Undergraduate and graduate interest in computer science has skyrocketed. This track includes sessions that will explore how to support high-quality, diverse research and teaching in the context of booming enrollments.

Track 2: Computing Education - This track looks at areas that are emerging as an important part of the computing research curriculum, including ethics, security and privacy, and data science.

Track 3: Computing in Industry - As computing grows ubiquitous, computing research is increasingly important to industry. This track will cover how research is conducted in industry and the partnership between industry and academia.

Track 4: Computing for Good - This track will explore the ways that computing research can help create a better future by supporting social justice, removing bias, and driving environmental sustainability.

Preliminary Agenda

TUESDAY, JULY 19

1:00 - 2:30 pm

How and Why to Create a Departmental BPC Plan

1:00 - 4:00 pm

Inaugural CRA-Industry Meeting

Co-chairs: Vivek Sarkar (Georgia Tech) and Ben Zorn (Microsoft)

CRA-Industry is a new standing committee of the CRA created with the mission to convene industry partners on computing research topics of mutual interest and connect our partners with CRA's academic and government constituents for mutual benefit and improved societal outcomes. This event at Snowbird is intended to introduce potential industry partners to CRA-Industry and its ongoing activities and discuss ways in which CRA-Industry can most effectively support industry partners.

2:00 pm

Registration

3:00 - 5:45 pm

New Chairs Workshop

Co-chairs: Carla Brodley (Northeastern University) and Katie Siek (Indiana University)



Agenda *(continued)*

This workshop will give new CS department chairs some of the skills needed to lead their organizations and work with deans, provosts, and advisory boards – the stuff they never told you in graduate school.

6:00 – 7:00 pm

Welcome Reception

7:00 – 8:00 pm

Welcome Dinner

Welcome from the Conference Co-Chairs

50th Anniversary of the CRA

Celebration of Andy Bernat

8:00 pm

After-dinner Keynote

Dr. Sethuraman “Panch” Panchanathan, Director, National Science Foundation

WEDNESDAY, JULY 20

7:30 – 8:30 am

Registration/Breakfast

8:30 – 10:00 am

CRA: Looking Forward

Co-chairs: Ellen Zegura (Georgia Tech), Tracy Camp (CRA), Nancy Amato (University of Illinois), and Andy Bernat (Retired CRA)

CRA has finalized its Strategic Plan, thanks to tremendous effort and excellent input from a large number of community members. In this opening session, we'll share CRA's strategic themes, priority outcomes, and near-term initiatives. Our Strategic Plan, and its focus on socially responsible computing research, has defined CRA's direction for years to come. CRA will continue to excel in key areas, such as be a source for resources that inform the field, as well as establish itself as a catalyst for computing research organizations to enhance the field. We invite you to learn where CRA is headed, both in the long-term and the short-term, as well as who will help lead us there.

Awards Presentations

10:00 – 10:30 am

Break

10:30 am – noon

The Trusting of Intelligent Machines: How AI Influences Human Behavior

Chair: Penny Rheingans (University of Maine)

Speaker: Ayanna Howard (The Ohio State University)

People tend to overtrust sophisticated computing devices, including robotic systems. As these systems become more fully interactive with humans during the performance of day-to-day activities, the role of bias in these human-robot interaction scenarios must be more carefully investigated. Bias is a feature of human life that is intertwined, or used interchangeably, with many different names and labels – stereotypes, prejudice, implicit or subconsciously held beliefs. In the digital age, this bias has often been encoded in and can manifest itself through AI algorithms, which humans then take guidance from, resulting in the phenomenon of excessive trust. Trust conveys the concept that when interacting with

Agenda (continued)

intelligent systems, humans tend to exhibit similar behaviors as when interacting with other humans; thus, the concern is that people may under-appreciate or misunderstand the risk associated with handing over decisions to an intelligent agent. Bias further impacts this potential risk for trust, or overtrust, in that these systems are learning by mimicking our own thinking processes, inheriting our own implicit biases. Consequently, the propensity for trust and the potential of bias may have a direct impact on the overall quality of the interaction between humans and machines, whether the interaction is in the domains of healthcare, job-placement, or other high-impact life scenarios. In this talk, we will discuss this phenomenon of integrated trust and bias through the lens of intelligent systems that interact with people in scenarios that are realizable in the near-term.

noon

Lunch

1:30 – 3:00 pm

Parallel Tracks

Track 1: Booming Enrollments While Broadening Participation in Computing

Co-chairs: Nancy Amato (University of Illinois) and Carla Brodley (Northeastern University)

Moderator: Nancy Amato (University of Illinois)

Speakers: Christine Alvarado (University of California, San Diego), Carla Brodley (Northeastern University), and Craig Partridge (Colorado State University)

Demand for undergraduate degrees in computing has increased rapidly in the last few years and shows no signs of abating. Many universities have put enrollment caps into place for various reasons including being unable to hire sufficient faculty to keep up with student demand, or to maintain balance between disciplines across the university. An inability to hire sufficient faculty is in part due to great demand and competition in the job market but also frequently due to lack of resources, which can be hindered by a university's adaptability in reapportioning resources quickly. COVID has exacerbated the gap between student demand and faculty resources due to hiring freezes at some universities. In this panel we discuss the ways in which universities are handling booming enrollments and their positive/negative impact on broadening participation in computing. In particular, we will discuss how to effectively scale introductory classes, fair/unfair ways to cap enrollments, and how interdisciplinary computing majors can provide a solution to booming enrollments.

Track 2: Incorporating Ethics into Computer Science Education

Co-chairs: Kathy Pham (Mozilla/Harvard) and Bobby Schnabel (University of Colorado, Boulder)

Speakers: Casey Fiesler (University of Colorado, Boulder), Seny Kamara (Brown University), Helena Mentis (University of Maryland Baltimore County), Kathy Pham (Federal Trade Commission/Mozilla) and Bobby Schnabel (University of Colorado, Boulder)

In recent years, there has been a surge of attention into incorporating ethics into education in computer science and related fields. This is taking a variety of approaches, including integrating ethics topics into core technical computer science courses, and standalone ethics and computing courses that in some cases involve partnerships with other disciplines. This panel will summarize some of these

Agenda (*continued*)

recent developments, including examples from the Responsible Computer Science Challenge that is integrating ethics into undergraduate computer science courses, and experience in standalone courses at undergraduate and graduate levels. It also will discuss repository created by an ACM Education Board task force that collects and provides materials that aid faculty in teaching ethics in computing topics. The panel will consist of fairly brief presentations followed by considerable time for discussion with the audience.

Track 3: Computing Research in Industry

Chair/Moderator: Jaime Teevan (Microsoft)

Speakers: Susan Dumais (Microsoft), Fernando Pereira (Google), Manuela Veloso (JPMorgan Chase) and Kristin Lauter (Meta)

Computation is in the process of transforming all areas of a business, from the way work gets done to the products and services that are created. As a result, companies are increasingly investing in fundamental computer science research in support of their strategic goals. This panel will look at what it means to do computing research in an industrial setting. Panelists will describe how research is conducted in their organizations, highlighting how problems are selected, how research is incentivized, and how results have internal and external impact. They will also discuss some of the key differences of doing research in an industrial setting compared with an academic setting, and share ideas for how universities might best prepare their students for a career in industrial research.

Track 4: Climate-Smart Computing to Address a Grand Challenge Facing Our Changing Planet

Co-chairs: Kate Larson (University of Waterloo) and Shashi Shekhar (University of Minnesota)

Speakers: Liz Bradley (University of Colorado, Boulder), Andrew A. Chien (University of Chicago), Lucas Joppa (Microsoft) and Vipin Kumar (University of Minnesota)

Climate change has been declared as the defining crisis of our time and concrete actions are needed now. Many communities have started major initiatives to address climate change. For example, the Biden administration has made it a central priority for all federal agencies resulting in initiatives for reducing greenhouse gases (GHG) emissions (e.g., electric vehicles), absorbing GHG (e.g., forests), increasing resilience (sea level rise, forest fires, extreme cold/hot weather), etc. This panel will bring together thought leaders in academia, industry and government to explore climate-smart computing opportunities by addressing questions such as the following:

- What is climate-smart computing? What may it help understand, mitigate, and adapt to climate change? How may we reduce computing's carbon footprint?
- What are computing research success stories in this area?
- What are major computing opportunities in this area?
- How may new computing researchers get involved?
- What are key research infrastructures (e.g., datasets, cyberinfrastructure, funding)?
- Is there a need for computing research community action? If so, recommend one.

Agenda (continued)

- 3:00 – 3:30 pm **Break and Group Photo**
- 3:30 – 6:30 pm **Networking Activities**
Guided Hikes
Alternative talking/interacting activity
- 6:30 pm **Dinner**

Reboot!
- The CCC Council embarked on a new activity this year to generate new ideas for us to explore as a community. In this session, we will have a set of lively, provocative conversations about three of these “blue sky” topics.
- Organizer: CRA’s Computing Community Consortium - Ann Schwartz (CRA)
- Speakers: Sujata Banerjee (VMWare), Nadya Bliss (Arizona State University), Bill Gropp (University of Illinois) and Dan Lopresti (Lehigh University)
- Moderator: Liz Bradley (University of Colorado Boulder)

THURSDAY, JULY 21

- 7:30 – 8:30 am **Breakfast**
- 9:00 – 10:00 am **Reports from the Computing Research**

Abstract: This session will highlight recent developments and reports from across the computing research community. Each presenter will provide a brief overview of their report and findings, and then audience members will participate in short, guided table-discussions around the themes introduced in the presentation. The goal of the session is to spur conversation at Snowbird on topics that are important to the computing research community and provide a teaser into a larger body work that inspires audience members to learn more after the session.
- 10:00 am **Break**
- 10:30 am **Parallel Tracks**

Track 1: Development of Teaching Faculty

Chair/Moderator: Ran Libeskind-Hadas (Claremont McKenna College)
- Speakers: Christine Alvarado (University of California, San Diego), Nancy Amato (University of Illinois), Dan Grossman (University of Washington) and Susan Rodger (Duke University)
- Teaching faculty play a critically important role in undergraduate CS education at large research universities. These faculty members contribute to their departments in multiple ways including, but not limited to, teaching very large introductory sequence courses and promoting pedagogical innovations that

Agenda (*continued*)

can benefit the entire department. This session addresses effective practices in recruiting, retaining, and mentoring teaching faculty. Among the questions that will be addressed are:

- What are effective models for teaching track faculty positions in terms of teaching, scholarship, and service expectations and responsibilities?
- What are effective practices in recruiting and mentoring teaching track faculty members?
- What are good practices in reviewing, renewing, and promoting teaching faculty?
- What are good practices and trends with respect to contract duration and security of employment for teaching track faculty?

Track 2: Security and Privacy Education

Chair/Moderator: Lorrie Cranor (Carnegie Mellon University)

Speakers: Patrick McDaniel (The Pennsylvania State University), Bo Yuan (Rochester Institute of Technology), Matt Bishop (University of California, Davis) and Michael Bailey (Georgia Tech)

Companies are reporting a growing shortage of qualified cybersecurity professionals, with hundreds of thousands of jobs going unfilled. New privacy laws around the world are also leading to rapid growth in the privacy profession, with an increased demand for privacy engineers. The demand for security and privacy professionals has prompted the creation of new degree programs at all levels. In addition, some universities are finding ways to incorporate security and privacy lessons throughout their computer science curricula. Panelists will discuss security and privacy undergraduate and graduate education, including course modules, full courses, and entire degree programs devoted to these areas.

Track 3: Industry-Academia Partnerships

Chair/Moderator: Divesh Srivastava (AT&T)

Speakers: Elizabeth Mynatt (Northeastern University), Chris Ramming (VMWare), Jennifer Rexford (Princeton University), Vivek Sarkar (Georgia Tech), and Benjamin Zorn (Microsoft)

In 2015, the CCC co-sponsored an industry round table that produced the document “The Future of Computing Research: Industry-Academic Collaborations.” Since then, several important trends in computing research have emerged as described in the CCC document “Evolving Academia/Industry Relations in Computing Research.” These trends include: (i) significant increases in the level of interaction between professors and companies in certain computing disciplines such as currently AI, which take the form of extended joint appointments, and (ii) increasingly, companies are highly motivated to engage both professors and graduate students working in specific technical areas, because companies view computing research and technical talent as a core aspect of their business success. This increasing connection between faculty, students, and companies has the potential to change (either positively or negatively) numerous things, including: (a) the academic culture in computing research universities, (b) the research topics that faculty and students pursue, (c) the ability to solve bigger problems with bigger impact than what academia can do alone, (d) the ability of universities to train undergraduate and graduate students, (e) how companies and universities cooperate, share, and interact, and (f) the potential for principles and

Agenda (continued)

values from academia informing products and R&D roadmaps in new ways through these unique joint arrangements. A recent survey carried out by CRA measures the degree and impact of this trend. This session brings together a diverse set of participants from industry and academia to understand these trends and help identify best practices that can be shared widely among computing research institutions.

Track 4: From Fairness to Responsibility: Actioning and Advancing the Discussion around “Algorithmic bias”

Co-chairs: Brent Hecht (Microsoft) and Ece Kamar (Microsoft)

Moderator: Brent Hecht (Microsoft)

Speakers: Ece Kamar (Microsoft), Miranda Bogen (Meta), Michael Kearns (University of Pennsylvania) and Maria De-Arteaga (UT Austin)

At the beginning of the last decade, the domain popularly known as “algorithmic bias” was a niche research area being advanced by a tiny group of scholars. By the end of the decade, “algorithmic bias” had become one of the most prominent domains of computing and a subject of great interest to policymakers and the general public. Anytime a field grows this quickly, it can be useful to stop and reflect on the field’s strategic directions. In this panel, we will take part in this reflection. Some of the questions we will debate include:

- Is the computing community focusing on symptoms of problems related to “algorithmic bias” rather than their causes?
- Rather than attempting to tweak models, is our time better spent developing new technologies and systems that directly address societal harms?
- How can industry and academia productively collaborate on responsible AI, especially given concerns about “ethics washing”? How can industry productively contribute more generally?
- Can a repositioning of the field around responsibility rather than fairness encourage more robust solutions to the problems at the core of “algorithmic bias”?
- How can the research and engineering practices around fairness (and responsibility) match the urgency and needs emerging from AI systems entering the world in diverse ways?
- Are there ways in which productizing ideas in the fairness literature can lead to more harm than good, e.g., through a belief that a model’s “bias can be fixed”? If so, how can we prevent this from happening?

noon

Lunch

1:30 pm

Parallel Tracks

Track 1: Undergraduate Research and Booming Enrollments: Who Wins

Co-chairs: Christine Alvarado (UC San Diego) and Kelly Shaw (Williams College)

Moderator: Kelly Shaw (Williams College)

Agenda (continued)

Speakers: Edward Coyle (Georgia Tech), Sarah Heckman (North Carolina State), Joe Hummel (University of Illinois, Chicago) and Brandon Fain (Duke University)

While the boom in enrollment has created significant challenges to CS units, it also provides opportunity to increase the supply of talented and well-educated computing researchers.

The challenge faced by units with surging enrollments is how to scale undergraduate research opportunities to reach the increasing number of exceptionally capable and well-motivated students. The major goals for this session are: (1) increasing awareness of different approaches/programs that units have established towards scaling undergraduate research in CS and CS-related fields and (2) enabling replication of such programs with best practices.

The session will highlight successful scaling strategies with particular focus on successful research training support courses, incentive structures for faculty and students, mentoring structures, and recruitment and matching models. Panelists will discuss what activities can be done in groups for training and mentoring undergraduate researchers and models for offering those activities as well as promising approaches for faculty incentives to participate in undergraduate research.

Track 2: Data Science in Computer Science Education

Chair/Moderator: David Ebert (University of Oklahoma)

Speakers: Michael Franklin (University of Chicago), Magda Bałazi ska (University of Washington), and Atul Prakash (University of Michigan)

The 2016 CRA Report on Computing Research and the Emerging Field of Data Science, highlighted the fact that data science will drive fundamentally new research in computer science and that the computing community has the opportunity to shape the emerging field of data science. Numerous schools have created minors and majors in data science. This session will explore how data science has impacted the educational programs in computer science and consider experiences, approaches, and answers to questions including:

- Which courses should change/have changed to include data science issues?
- What new course and requirements are the most effective?
- Are most departments creating a series of specialized topic courses (e.g., ICR)?
- Should we create new specializations/degrees or integrate into core programs?
- How has student interest in specialization shifted to data science or is the shift just specifically to Machine Learning and AI?
- How should we manage the growing demand, and will it continue?

Track 3: Techlash in Context: What Should CS Departments and Tech Companies Do?

Chair/Moderator: Vivek Sarkar (Georgia Tech)

Speakers: Lorrie Cranor (Carnegie Mellon University), Alfred Spector (Google), Moshe Vardi (Rice University) and Nirit Weiss-Blatt (Author of "The Techlash and Tech Crisis Communication")

Agenda (continued)

In past decades, CS departments and tech companies have been admired as drivers of positive change. However, there is now a growing undercurrent of negative associations with tech companies, which is also being transferred to CS departments in their interactions with industry. Several recent mainstream news articles have documented on-campus student protests criticizing various actions by tech companies, both in how their products are used and in how companies have responded to internal missteps. In some cases, these protests also target CS departments and faculty members involved in partnering with or hosting these companies. Adding fuel to fire, the current rapid growth and adoption of AI technologies threatens to further amplify this backlash. While our community has always benefited from members who have advocated for increased social responsibility in computing, a broader response is needed to address the growing techlash on campus and in society. In this interactive session, we will place techlash in context, and discuss what actions CS departments and tech companies can take to rebuild a positive image for tech in academia and industry. Much of the discussion will be driven by audience questions, so audience participation will be highly welcomed!

Track 4: Addressing the Challenge of Mis- and Disinformation, Online and Beyond

Chair/Moderator: Kate Starbird (University of Washington)

Mis- and disinformation are a critical challenge for democratic societies. Acute misinformation can lead to poor decision making, for example about whether or not to take a vaccine. At scale, it can render a society unable to effectively respond to collective crises, from pandemics to climate change. Pervasive disinformation (intentionally misleading information) erodes trust in institutions, including science, journalism, government, and democracy – and can make it difficult for citizens of democratic societies to come together to do the difficult work of governing themselves. In recent years, we seem to be experiencing an acceleration and expansion of mis- and disinformation, with many pointing to the role of the Internet and social media in particular in their spread. As we continue to come to terms with the scale and nature of the issue, the work of identifying potential “solutions” looms. It’s clear that there is no one, simple solution – but there is hope that we can mitigate its damage by productively chipping away at the problem from multiple angles. This conversation explores some of the proposed solutions to the challenge of mis- and disinformation, addressing them along several distinct dimensions – e.g. from education, to policy, to platform (re)design.

3:00 – 3:30 pm

Break

3:30 – 5:00 pm

Making a Federal Case for Computing

Speaker: Peter Harsha (CRA)

Peter Harsha is the Director of Government Affairs for the Computing Research Association. In his position, Peter works to help CRA influence computing research policy by improving public and policymaker understanding of the nature of research, and by increasing the computing community’s awareness of and participation in policy issues. Prior to joining CRA in October 2001, Peter spent six years working for Congress, beginning as a member of the personal staff of Congressman Nick Smith of Michigan. In the 106th and 107th Congresses, Peter served as a member of the professional staff of the House Science

Agenda (continued)

Committee as Chairman Smith's designee on the Subcommittee on Research, working on a portfolio of issues that included oversight of the National Science Foundation, Information Technology, the U.S. Fire Administration, and the National Earthquake Hazards Reduction Program. Peter has three boys, and a cat named for 80's hockey goon Marty McSorley.

5:00 – 6:30 pm

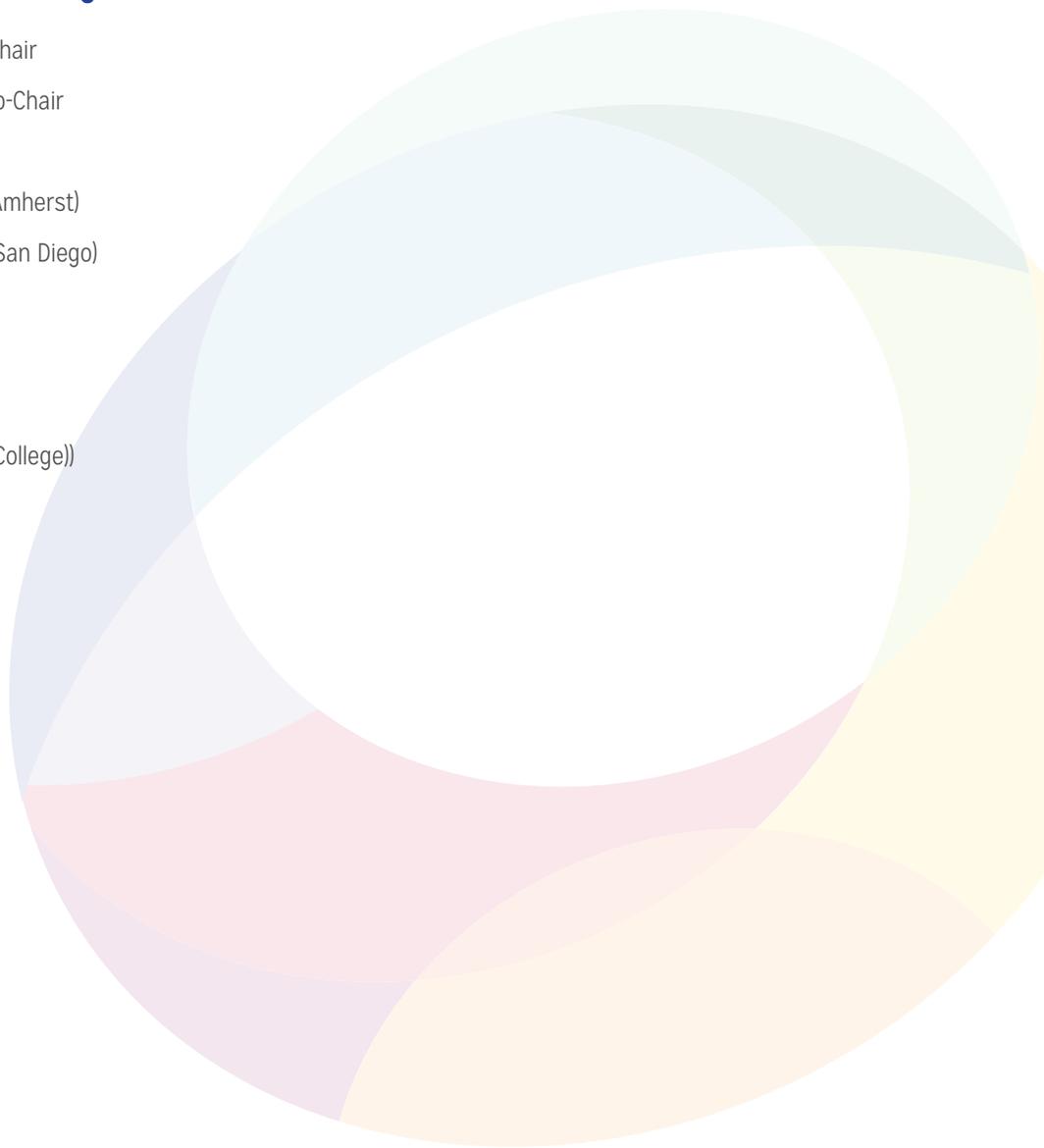
Break

6:30 pm

Dinner

2022 Conference at Snowbird Organizing Committee:

- Penny Rheingans (University of Maine) Co-Chair
- Shashi Shekhar (University of Minnesota) Co-Chair
- Jaime Teevan (Microsoft) Co-Chair
- James Allan (University of Massachusetts, Amherst)
- Christine Alvarado (University of California, San Diego)
- Carla Brodley (Northeastern University)
- Peter Harsha (CRA)
- Kate Larson (University of Waterloo)
- Ran Libeskind-Hadas (Claremont McKenna College)
- Divesh Srivastava (AT&T)



First Cohort of CSGrad4US Fellowship Candidates Seek to Make an Impact on Society with an Advanced Degree

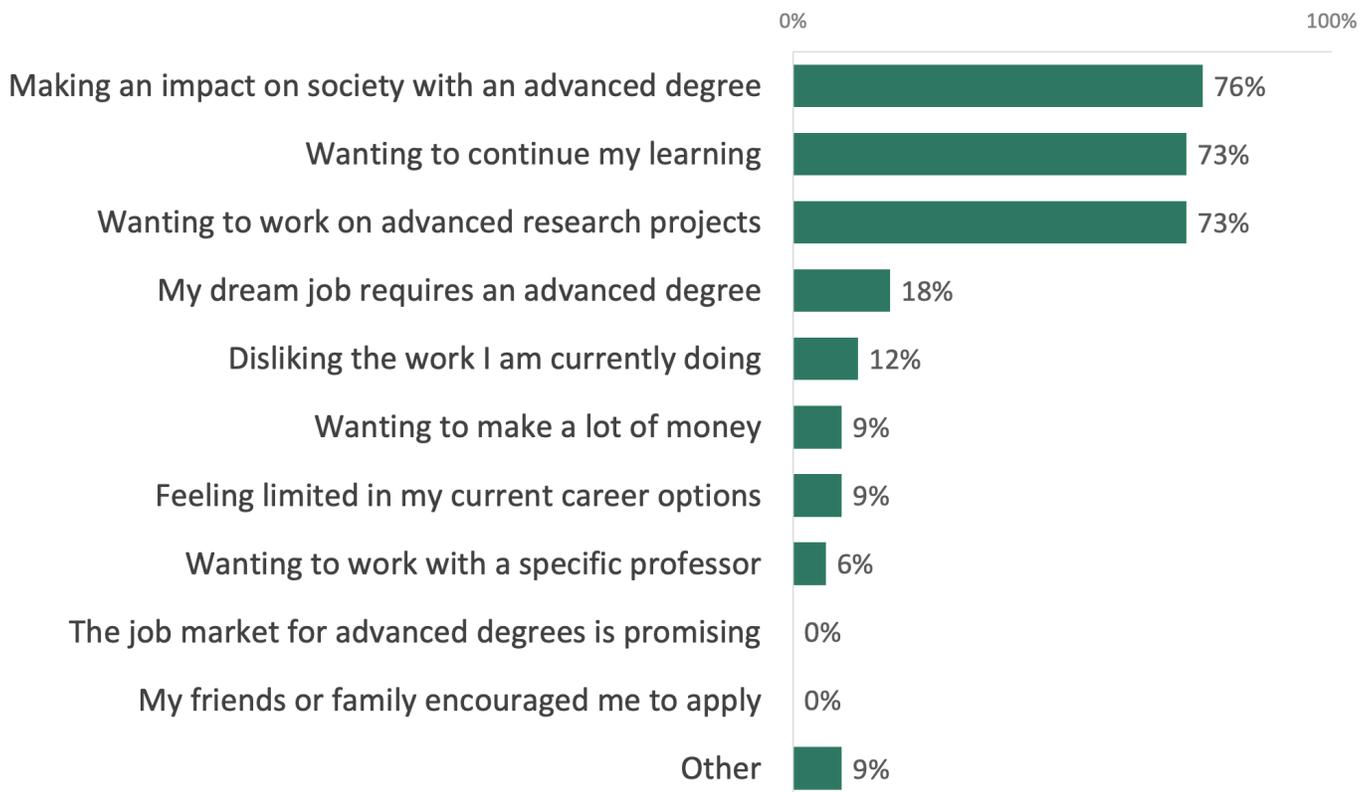


CERP

Computing Research Association
Evaluation

By Kristi Kelly, Senior Research Associate

CSGrad4US Participant Motives for Applying to Graduate School



Source: CSGrad4US Pre-Program Survey (2021), Center for Evaluating the Research Pipeline, Computing Research Association

Notes: N = 33 respondents. Respondents could select up to three responses.

In 2021, NSF launched the [Computer and Information Science and Engineering Graduate Fellowship \(CSGrad4US\) program](#) for domestic bachelor's degree holders working in industry and other sectors to support them in enrolling and completing doctoral degrees in computing. CRA-E and CRA-WP developed and delivered a mentoring program this fall for the first cohort of 34 CSGrad4US Fellowship candidates. During the twelve weeks of the CSGrad4US mentoring program, participants received information about the graduate admissions process, how to choose graduate programs, and how to prepare strong graduate application materials. Participants also worked one-on-one with program coaches during this period to address their individual needs and questions and get feedback on their graduate application materials. Among the 34 participants in the first cohort of the CSGrad4US mentoring program, 24 (71%) applied to doctoral programs for fall 2022 enrollment, and 8 (24%) will apply in fall 2022 for fall 2023 enrollment. Two participants dropped out of the program.



Graduate School *(continued)*

To identify the primary drivers of CSGrad4US participants deciding to leave their jobs to return to graduate school, a pre-program survey asked respondents to indicate up to three of their biggest motivations for their decision to apply to graduate school. Their responses are shown above. The most frequently-cited motive (cited by 76% of respondents) was to make an impact on society with an advanced degree, followed closely by wanting to continue with their learning and to work on advanced research projects. Notably, very few respondents indicated their decisions were related to their current careers; only 12% were motivated by disliking their current work, and only 9% were motivated by feeling limited in their current career options. These results suggest that targeting working professionals in computing – even those who are currently satisfied in their careers – may be a fruitful avenue for increasing enrollment in computing-related PhD programs.

For more information about the CSGrad4US Fellowship program, including eligibility and application deadlines for 2022, please refer to the [NSF](#) and [CRA-WP](#) CSGrad4US program websites.

Notes:

The survey data analyzed for this infographic were collected by [Center for Evaluating the Research Pipeline](#).

The full CSGrad4US pre-program survey, administered prior to the start of the program mentoring and coaching components, includes a variety of questions about participants' backgrounds, future career intentions, and computing-related attitudes and perceptions. The full question text for the data shown above is as follows: "Which of the following are your biggest motivations for deciding to apply to graduate school? (Choose up to 3 responses.)"

This analysis is brought to you by the CRA's Center for Evaluating the Research Pipeline (CERP). CERP provides social science research and comparative evaluation for the computing community. Subscribe to the CERP newsletter [here](#).

This material is based upon work supported by the National Science Foundation under grant number CNS-2123180. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Expanding the Pipeline: The Center for Research and Education on Accessible Technology and Experiences (CREATE)



CRA-WP
Computing Research Association
Widening Participation

By Jennifer Mankoff, Jacob O. Wobbrock, Co-Directors, University of Washington CREATE

Abstract

In an era of rapidly evolving technology and increasing interconnectedness, full participation in society depends on the successful use of technology. Thus, to ensure equity and participation for people with disabilities, technology must be accessible—we must create and adapt interactive systems to improve access to technology and to the world at large. The University of Washington Center for Research and Education on Accessible Technology and Experiences (CREATE) is dedicated to propelling accessible technology research and education from incremental improvements to paradigm-shifting breakthroughs that enable greater inclusion and participation for people of all abilities. This article briefly introduces CREATE's mission and then highlights some of its recent research into the impact of the pandemic on students and best practices for hybrid meetings.

CREATE's Mission

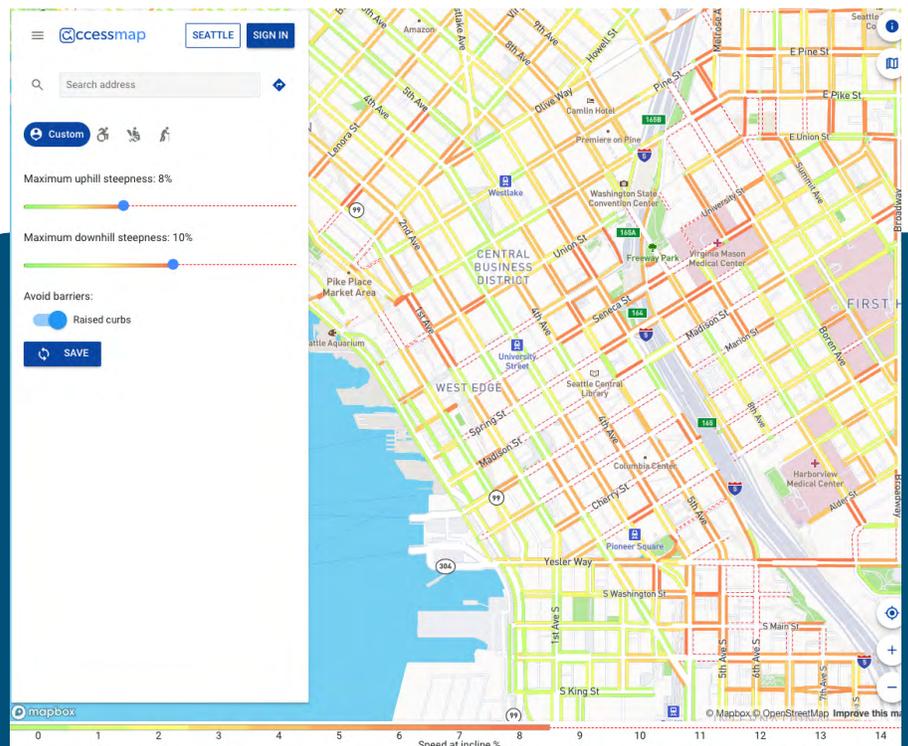
It has been 30 years since the Americans with Disabilities Act (ADA) passed, but the COVID-19 crisis has vividly highlighted that equal access to technology is not yet a reality. CREATE's mission is *to make technology accessible, and to make the world accessible through technology*. By bringing together research, education, and translation-to-practice in one collaborative organization, CREATE provides the infrastructure to catalyze progress on moonshot projects—challenges that require extended, multidisciplinary teams.

CREATE aims to fully support people with disabilities in achieving their goals by:

- Inventing the next generation of accessible technologies.
- Making sure that people with disabilities are included in the data driving today's world.
- Ensuring that our inventions land in the hands of the people we serve.
- Improving the presence of people with disabilities in education and the workforce.
- Educating the next generation of technologists to prioritize accessibility in their current and future work.
- Centering the voices of people with

disabilities in all of these efforts.

While research is a focus of CREATE, translation and education are also at the heart of CREATE, and cross-campus collaboration is a core value. Translation-to-practice is at the heart of CREATE, where research results and technologies are moved into the world to have the greatest possible impact on people with disabilities. We must provide pathways for translation and ensure diverse voices inform our innovations. Led by Anat Caspi, CREATE's Director for Translation, CREATE partners with the Taskar Center at the University of Washington to engage community partners, provide pathways for translation, and ensure diverse voices





Expanding the Pipeline *(continued)*

inform our innovations. CREATE partners also include HuskyADAPT, the UW Access Technology Center, and UW Disability Studies, among others.

CREATE also has an educational mission, which aims to educate and empower the next generation of technology creators and managers to prioritize accessibility in their work, and to broaden participation in the workforce to include more people with disabilities. CREATE has an active postdoctoral program that welcomes applications (contact us at create-contact@uw.edu). This work addresses inequalities due to class, race, and gender for people with disabilities, and includes research to understand and address barriers. Led by Richard Ladner, CREATE's Director for Education, the Center is leveraging its connections with organizations like DO-IT, AccessComputing, AccessEngineering, and TeachAccess to develop new courses and create pathways for more individuals with disabilities to pursue careers in technology and design.

Creating Equity During COVID-19

During the COVID-19 pandemic, online learning became the norm by necessity. As the computing community begins to return to in-person classes, it is natural to ask what, if anything, we should keep from these experiences. CREATE students Han Zhang and Kelly Mack along with CREATE Co-Director Jennifer Mankoff and several co-authors¹ spent 2020 and 2021 investigating this very question. COVID-19 upended college education and

the experiences of students due to the rapid and uneven shift to online learning. While adjusting to online learning, students also struggled with isolation, distraction, and financial pressures. The researchers compared 28 undergraduate students with disabilities (including mental health concerns) to their peers during 2020, to assess differences and similarities in their educational concerns and related challenges in the pandemic. They found something that people with disabilities have been saying for a long time—that for many students with disabilities, going online, and the increased flexibility offered by their instructors, was *more* accessible than their prior educational experiences.

Discussions of accessible online learning have typically focused on concerns such as video captioning and image description. These are indeed critical, and should be a norm in any presentation. However these improvements do not address some of the most common disabilities found in higher education and the workplace, such as chronic conditions or mental health concerns. Technologies, or required activities, may aggravate such symptoms, and the risks of in-person gatherings may also be higher for some people with disabilities.

The team's findings suggest a need to consider the accessibility of in-person events not only in terms of basic materials access but also in terms of the impacts, both positive and negative, of in-person and online versions of such events on this broader range of people with disabilities.

For example, online learning can reduce fatigue, a symptom of many chronic illnesses, by reducing travel needs. In a more negative example, it is hard to disentangle online interaction from the physical and social isolation experienced by everyone during the pandemic. This isolation from peers has been detrimental to learning, mental health, and may amplify the disconnection felt by people with disabilities. Recorded events that can be watched at different times and speeds, online opportunities for 1:1 interaction, and chat features for asking questions during lectures were also helpful to students in our study. At the same time, the lack of interactivity of online experiences decreased engagement and intensified mental health concerns.

Overall, we see a critical need for flexible approaches to instruction, event planning, and other student and professional experiences in which the computing community engages. Currently, it is seen as unsustainable, nigh impossible, to offer truly equivalent in-person and online events. However, we are innovators, and we will learn by attempting to do such things.

Further, there are many simple steps that can be taken today with no new innovation.

- Online-only events can be placed in rotation with other forms of interaction. For example, a class can have an online-only section, or a conference can meet online once every few years just as it meets in different cities or countries or on different continents over time.

¹ Margie Morris, Paula Nurius, Jennifer Brown, Kevin Kuehn, Yasaman Sefidgar, Xuhai Xu, Eve Riskin, and Anind Dey



Expanding the Pipeline *(continued)*

- Next, basic access standards are still often not met. This includes posting slides ahead of lectures, recording lectures when possible, and giving extra time for assignments or other needs (such as final versions of papers or presentations for conferences).
- Additionally, it is critical to try to replicate better peer-to-peer interaction in online events. [AccessSICHI](#), in their open letter on why “CHI 2022 Should Be a Virtual Only Event,” highlighted several possibilities

for improved networking, including holding “Regional meetings with ... travel scholarships supporting and encouraging cross-pollination across regions”; and “feature articles on scholars on a regular basis to introduce them to the community” in professional magazines.

The accessibility gains and challenges that the COVID-19 pandemic has spawned must not be erased as we return to in-person learning. Instead, these must become standard rather than only

happening when a disabled person asks for them. One of the most telling insights from our study was that many students who never registered for, or qualified for, disability services benefited tremendously from the pandemic-related changes that were offered to all students. The maxim was to be flexible and give everyone the benefit of the doubt. Documentation and rules became less important than compassion. This attitude should be a norm we all maintain going forward.

Acknowledgments

The following faculty are core founding members of CREATE: Anat Caspi (Director for Translation); Heather Feldner, Assistant Professor, Rehabilitation Medicine: Physical Therapy; Core Faculty, Disability Studies; Affiliate Faculty, Center for Technology and Disability Studies Director, IMPACT Collaboratory; Leah Findlater, Associate Professor, Human Centered Design & Engineering; Director, Inclusive Design Lab; James Fogarty, Professor, Paul G. Allen School of Computer Science & Engineering; Jon Froehlich, Associate Professor, Paul G. Allen School of Computer Science & Engineering; Richard Ladner (Director for Education); Jennifer Mankoff (Co-Director); Kat Steele, Albert S. Kobayashi Endowed Professor, Department of Mechanical Engineering Director, Ability & Innovation Lab, Co-Director, AMP Lab; and Jacob O. Wobbrock (Co-Director).



About the Authors

Jennifer Mankoff, Co-Director, Richard E. Ladner Professor, Paul G. Allen School of Computer Science & Engineering; Director, Make4all Lab, make4all.org. Mankoff’s research focuses on accessibility and fabrication technology. She has led the effort to better understand both clinical and DIY stakeholders in this process, and has developed better, more usable tools for production. Her work also encompasses access to STEM education and mobile devices. jmankoff@uw.edu

Jacob O. Wobbrock, Co-Director, Professor, The Information School; Director, ACE Lab, <http://depts.washington.edu/accelab/> Wobbrock’s research seeks to scientifically understand people’s experience of computers and information, and to improve those experiences through design and engineering, especially for people with disabilities. His specific research topics include input & interaction techniques, human performance measurement & modeling, HCI research & design methods, mobile computing, and accessible computing. wobbrock@uw.edu

Reach out to us:

<http://create.uw.edu> | @uwcreate (Twitter) | create-contact@uw.edu



Mona Singh: Cracking the Code for Cancer

By Maddy Hunter, CCC Program Associate



Mona Singh, CCC Council Member and Professor of Computer Science and the Lewis-Sigler Institute for Integrative Genomics at Princeton University was **featured on the Princeton University website** for her work in combining biology and computer science to combat cancer.

In high school, Singh had been interested in matters of biology and medicine but her passions belonged to math and computer science. Eventually, she joined a biophysics lab, where she applied the computer science skills she'd learned to automate data collection for the lab.

"I think that experience planted the seeds for using computer science in molecular biology," she said. "I really loved the methods of computer science and thinking about things analytically, so it was really exciting to be able to bring what I'm good at to a topic that I thought was really fascinating."

That experience sparked her multidisciplinary career in computational biology. She went on to earn degrees from Harvard and then her Ph.D. from the Massachusetts Institute of Technology. During her time at MIT, the **Human Genome Project** was ramping up which furthered her interest in the field.

She joined Princeton University in 1999, and started working in cancer genomics when she realized her work in protein interactions could greatly impact the study of cancer. She analyzed cancer genomes using computational tactics in an attempt to uncover cancer-driver genes (genes with specific mutations that are related to cancer initiation or progression).

"Someone with lung cancer may have hundreds or even thousands of mutations within their protein sequences, but only a handful are really relevant for disease," Singh said. "There's a whole area in cancer genomics and computational biology that is trying to pinpoint what those important mutations are. We know that the cancer that every person has is like their own individual version of cancer, and the idea is that if there's a drug that treats the specific mutation that they have, then they can avoid chemotherapy and get a tailored treatment that targets those potential disease-driving genes instead."

A new video "**Dare to Venture**" shows how Singh combines computer science and biology in her studies.

Mechanism Design for Improving Hardware Security Orientation Recap



CCC

Computing Community Consortium
Catalyst

By Maddy Hunter, CCC Program Associate

On January 13th, the Computing Community Consortium (CCC) held an orientation webinar as an introduction for a CCC visioning workshop on **Mechanism Design for Improving Hardware Security** to be held in the summer of 2022 (exact date and location TBD). Hosted by workshop organizers **Simha Sethumadhavan** (Columbia University) and **Tim Sherwood** (University of California Santa Barbara), the orientation consisted of pre-recorded presentations and a Q&A with the speakers. The [slide deck](#), [pre-recorded presentation video](#), [recording of the Q&A session](#) and a [transcript of the Q&A](#) are linked and posted on the [workshop webpage](#).

The orientation outlined the goals of the workshop and expanded on what the organizers are looking for in the white papers. We are seeking short white papers to help create the agenda for the workshop and select attendees.

At this workshop, participants will investigate ways to improve the design and uptake of hardware security mechanisms. In addition to looking at traditional technical solutions, the workshop will also consider new mechanisms to incentivize designers, system integrators, and users to create and maintain security of their systems. The workshop will bring together hardware and software security experts and economists and experts in devising and implementing governmental policies.

For participation in this workshop, we request white papers of no more than two pages. Please fill out [this wufoo submission form](#) to submit a white paper, by April 10th.. Topics of interest include, but are not limited to:

- How do current policies and market structures disincentive hardware oriented security solutions? How do we fix this: what

technical and policy frameworks are necessary to make progress in this area?

- What are the mechanisms necessary to enforce a government mandate that says that X% of the performance or cost should be set aside for security? What mechanisms are necessary to determine X? How often should X be determined? Is there a quantitative approach for the organization to use up this security budget? How would this be enforced on user systems? Are there alternate government mandates that are actionable and can be supported technically?
- Is there an equitable way to proportion the benefits of security and impacts of security attacks? What hardware support, if any, is necessary to facilitate this process?
- How do we establish a chain of responsibility for malicious and negligent action while also maintaining privacy?
- How can hardware innovations (e.g. U2F tokens) fundamentally impact software dark economies?
- What incentives are necessary to patch hardware bugs in a timely manner?
- What education/certification requirements are necessary for increasing the awareness and application of hardware security solutions?
- Are there parallels to software certification requirements for hardware? What would these assurance/certification requirements look like?

To learn more about the workshop and its goals check out the [workshop webpage](#) and join the workshop planning [slack channel](#). We hope the slack channel will be a place to start conversations, discuss potential topics and answer any questions.

CRA and CCC Welcome Two New Program Associates



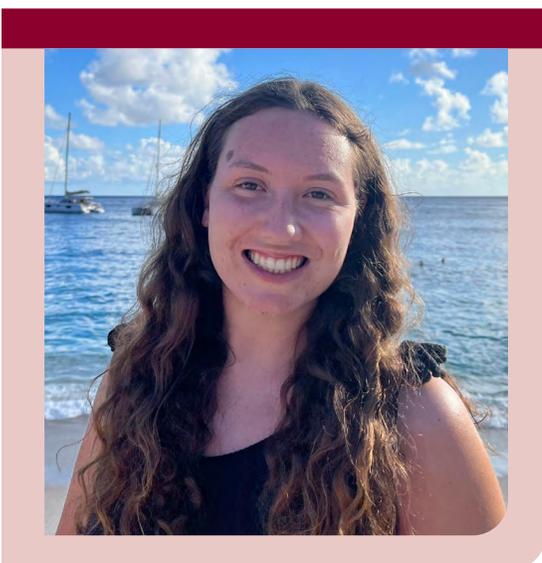
The Computing Research Association recently hired two new program associates - Catherine Gill and Haley Griffin for the Computing Community Consortium (CCC) subcommittee.



In this role, Catherine Gill will assist CCC staff with administrative tasks and logistical matters, such as organizing and coordinating workshops and research efforts. Most recently, she worked as an office manager for Hanover Research organized employee events and office communications.

"CCC eagerly welcomes Catherine (Cat) Gill as a new Program Associate. Her organizational experience, including communications and logistics, will help amplify the efforts of CCC leader and volunteers to further our goals of catalyzing high-impact computing research within the community."
- Dan Lopresti, CCC Vice Chair

Originally from Boulder, Colorado, Cat has a passion for learning any and all things history, and spending time in the Colorado wilderness. She received her Bachelor's degree in Philosophy from Colorado College, and hopes to attend law school in the future. In her free time, Cat loves to play video games, go on hikes, and read as many books as possible.



Haley Griffin will support the CCC mission by facilitating workshops, completing administrative tasks, and assisting with communications deliverables.

"CCC is delighted to have Haley Griffin join us as a Program Associate. Her energy, her writing skills, and her work experience in nonprofit organizations will be assets to CCC in its mission to catalyze the computing research community and enable the pursuit of innovative, high-impact research."
-Liz Bradley, CCC Chair

Previously she worked for AmeriCorps as a Literacy Coordinator where she helped students at under-resourced schools with their reading comprehension and literary skills. Haley graduated from Miami University with a bachelor's degree in professional writing and minors in Spanish and global perspectives on sustainability. She has experience working with nonprofit organizations on initiatives like obtaining grants for watershed management and designing project proposals for fundraisers. In her free time Haley likes to take walks, spend time with friends and family, and travel.

Faculty Startups and Corporate External Research



CRA-I

Computing Research Association
Industry

By Helen Wright, CRA-Industry Senior Program Associate

Chris Ramming, Senior Director of Research and Innovation at VMware, CRA Board member, and Computing Research Association-Industry Steering Committee member, recently presented on Faculty Startups and Corporate External Research during **Innov8rs Connect's Startup Collaboration & Ecosystem Engagement February 15-17, 2022 event**.

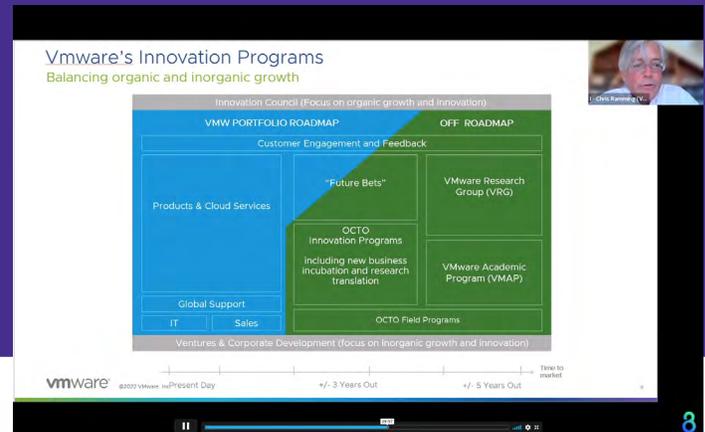
Many companies grow through a balance of organic (through corporate research translation processes) and inorganic (through the acquisition of other companies) innovation. VMware, a faculty-led startup from 1998, is grounded in insight from academia and now has many decades of experience with organic and inorganic integration.

In his talk, Ramming shared a number of best practices that can help ensure a productive, positive relationship between companies and faculty entrepreneurs. They include:

- working with the right persona at the right time;
- knowing when an idea has “graduated” from pre-competitive to competitive research;
- agreeing on intellectual property regimes that support all parties; and
- leveraging research relationships for mutual benefit.

VMware, like many companies, values startups that are grounded in peer reviewed research results. As Ramming observed, if the research community has already done its due diligence and finds an idea compelling, a company can more confidently take that research and continue to move it forward. These positive collaborations with academia are critical in fueling both organic and inorganic growth in companies. It is a win-win!

To see the full presentation, including a number of VMware specific case studies, [sign up for Innov8rs Connect here to watch the recording](#).



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Expanding the Pipeline
Soha Hassoun, Tufts University
Patty Lopez, New Mexico State University

Augusta University

School of Computer and Cyber Sciences

*Tenure Track and Tenured Positions
at the Assistant, Associate, and Full
Professor Levels*

The School of Computer and Cyber Sciences at Augusta University invites applications for ten tenure-track/tenured faculty positions at all ranks in the following disciplines: computer science, cybersecurity, data science, information technology, and information systems. Hiring will continue on a rolling basis until positions are filled. Reach out to ccs@augusta.edu if you have questions.

The School was founded in 2017 with the mission to provide high-engagement, state-of-the-art education, and research across its Computer Science, Information Technology, and Cybersecurity disciplines, and with the vision of becoming a national leader in Cybersecurity. The School is undergoing an unprecedented transformation and growth, starting the year 2022 with 35 faculty, as we are becoming a comprehensive research college with national prominence, matching Augusta University's designation as Georgia fourth comprehensive research university. The school offers degrees at Doctoral, Masters and Undergraduates levels. The school has a rapidly increasing research momentum with more than 5 million dollars of new funding from NSF, DOD, and NSA within the past 18 months.

Augusta, Georgia is becoming a primary hub for cybersecurity in the United States,

and the area is poised for explosive development. It is located at the center of a number of academic, governmental, and corporate partnerships critical to the nation's cyber security, including the U.S. Army Cyber Center of Excellence, the National Security Agency Georgia, the home of the United States Army Cyber Command, and the nearby Savannah River National Laboratory in South Carolina. The State of Georgia invested \$100M in the Georgia Cyber Center at Augusta University, a 325,000-square-foot research and education facility which opened in 2018 and is home to the School of Computer and Cyber Sciences.

Augusta University has embarked on an ambitious, multi-year effort to significantly expand its computing, cybersecurity, and data science activities. Information about the school and a description of open positions are available on the school website at <http://www.augusta.edu/ccs>.

Applicants must hold a PhD in Computer Science, Information Systems, or a related discipline at the time of appointment. The ideal candidate will demonstrate the potential for sustained research excellence as well as a commitment to quality in undergraduate and graduate education. The target appointment date is Fall 2022.

To be considered as an applicant, candidates must apply via the Augusta University job board at <https://www.augusta.edu/hr/jobs/university/>. When applying, click external applicants and in the search bar, type the following job id:234632.

Augusta University, a unit of the University System of Georgia, is an equal opportunity educational institution and is an equal opportunity/affirmative action employer.

Baidu Bellevue

Researcher

Machine Learning, Statistics, Theory

Baidu Bellevue Office is looking for outstanding candidates for various research positions including Research Scientist, Postdoctoral Researcher, and Research Interns. We welcome applicants with strong background in statistical machine learning, theory, applied Math, systems, databases, NLP, knowledge, reasoning, and/or computer vision. Our mission is to develop next generation cognitive computing technologies for better connecting billions of users to services. At Baidu Bellevue, you will be uniquely positioned in our team to work on very large-scale industry problems and to push forward frontiers of cognitive computing technologies. Researchers are encouraged to publish the research works in premier CS conference proceedings or journals.

Qualifications:

- PhD in Computer Science, Statistics, Electrical Engineering, Mathematics, Operation Research, etc.
- Excellent publication record in major CS conferences and/or premier Stat/EE/SIAM journals. Examples are CVPR, FOCS, KDD, ACL, WWW, ICML, SIGMOD,

JMLR, PAMI, IEEE Info. Theory, major statistics/mathematics journals, SIAM J. Computing, SIAM J. Optimization, Math. Program. etc.

- Strong analytical and problem-solving skills. Team player with good communication skills.

We have positions in both Bellevue WA and Beijing China. Intern opportunities are open throughout the year. Postdoctoral Researchers, after working with us for 1 or 2 years, are encouraged to seek employments as tenure track assistant professors. Our recent publications can be found at <https://zhuanlan.zhihu.com/p/386562133>

To apply, please send your CV to ccl-job@baidu.com

Binghamton University

SUNY Empire Innovation (Full) Professor:

Binghamton University's Watson College of Engineering is seeking a candidate for a senior faculty position expected to present a vision for leading existing research and industrial collaborations in AI and ML for health sciences, systems, and outcomes. It will be the first of three cluster hires. Doctorate in an engineering discipline or closely related field is required, along with strong records of securing external funding and establishing leadership, and of scholarship as evidenced by peer-reviewed publications/citations.

Apply: <http://binghamton.interviewexchange.com/jobofferdetails.jsp?JOBID=140898>

Boston University's Metropolitan College

Assistant Professor of Computer Science

Boston University's Metropolitan College seeks two dynamic and creative faculty members with expertise in data analytics or software development to join its nationally recognized Department of Computer Science (<http://www.bu.edu/csnet/>) at the rank of Assistant Professor starting July or September 1, 2022.

The Department is a leader in providing rigorous and industry-relevant education in areas such as information security, computer networks, computer information systems, financial informatics, digital forensics, and health informatics. Courses are offered in flexible face-to-face, blended and online formats. It offers the acclaimed Boston University online Masters in Computer Information Systems program, ranked as the 8th best online IT program by US News & World Report 2021. The department believes that the cultural and social diversity of our faculty, staff, and students is vitally important to the distinction and excellence of our research and academic programs. To that end, we are especially eager to have colleagues who support our institutional commitment to ensuring BU is inclusive, equitable, and diverse join our ranks.

Qualifications: The successful candidates must hold a Ph.D. or equivalent degree in Computer Science or a related field, and have a demonstrated successful teaching and research record. We welcome applications from candidates with a terminal degree who

have extensive professional and industry experience as well as an interest in teaching and applied research.

Responsibilities: Faculty duties include teaching up to six courses at the graduate and undergraduate levels per academic year, including blended and online courses, conducting active research, participating in course and curriculum development, and mentoring part-time faculty and students, as well as providing service to the department, college and the university. These are both full-time, non-tenure track appointments at the rank of Assistant Professor, each with a 2-5 year renewable contract.

The faculty positions offer significant opportunity for interdisciplinary and collaborative scholarly work, including research and curriculum development within Metropolitan College and Boston University, as well as the greater Boston area.

Salary: Commensurate with experience.

Application: Applicants should submit a cover letter stating career objectives, suitability for the position, research goals, and approach to teaching, as well as a curriculum vitae, and three letters of reference, preferably via the application link below. Candidates who, within their application materials, substantively address their experiences, strengths, and opportunities for growth regarding diversity, inclusivity, and full participation at Boston University will receive the highest priority/consideration. Applications will be reviewed as received until the position is filled.

Submit applications online:

<https://www.bu.edu/csmet/careers/assistant-professor/>

Department Contact:

Ms. Kimberly Crosta
Director of Program Administration
Department of Computer Science
Boston University Metropolitan College
1010 Commonwealth Avenue
Boston, MA 02215
kimrich@bu.edu

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

Brown University

Postdoc in Data Science

The Data Science Initiative at Brown University seeks applications for one-year renewable postdoctoral fellowship positions in the area of data science with a start date of July 1, 2022 (flexible). We seek candidates working in any area of data science, including geometry and topology of data, causal and model based inference, data analysis on massive graphs and networks, or others. Attention to the societal impacts of data science and issues of equity and social justice is desirable.

For more details and to apply, please see *Interfolio*: <http://apply.interfolio.com/101683>

Carleton College

Visiting Assistant Professor

The Department of Computer Science at Carleton College invites applications for two full-time Visiting Assistant Professor positions for the 2022-2023 academic year, with the possibility of renewal. We are also open to part-time or part-year appointments.

View the full job posting <https://careers.carleton.edu/en-us/listing/>

Case Western Reserve University

Non-Tenure-Track Teaching Faculty Position (Open Rank), Computer and Data Sciences

The Department of Computer and Data Sciences in the Case School of Engineering at Case Western Reserve University (CWRU) invites applications for a non-tenure-track faculty position.

All ranks will be considered. The primary responsibility for this position is teaching. The secondary responsibility is either research or service, as chosen by the candidate.

Applicants should have a strong commitment to high quality teaching at the undergraduate and graduate levels. All successful candidates are expected to

teach core courses in Computer and Data Sciences as well as advanced courses in the candidate's area of specialization, supervise undergraduate and graduate students, and interact and collaborate with faculty across the department and campus.

The Department of Computer and Data Sciences was formed in 2019 out of the Department of Electrical Engineering and Computer Science, with the vision that computing and data sciences will play a central role in interdisciplinary research and education throughout the university.

For more information and to submit an application, please visit <https://engineering.case.edu/computer-and-data-sciences/employment>

CWRU provides reasonable accommodations to applicants with disabilities. Applicants requiring reasonable accommodation for any part of the application and hiring process should contact the Office of Equity at 216-368-3066.

Colby College

Visiting Assistant Professor

Colby College invites applications for a one-year full-time Visiting Assistant Professor position in Computer Science, to start on September 1, 2022.

For more information and to apply, please see <https://cs.colby.edu/Colby-CS-VAP-2022.pdf>.

Colby College

Postdoctoral Associate / Visiting Assistant Professor

The Davis Institute for Artificial Intelligence at Colby College invites applications for a postdoctoral associate / visiting assistant professor.

For more details and to apply, please visit: <https://apply.interfolio.com/101863>.

College of the Holy Cross

Full-Time Visiting Faculty Position in Computer Science

The Department of Mathematics and Computer Science at the College of the Holy Cross invites applications for a visiting full-time faculty position in computer science for the 2022-2023 academic year. Candidates in all areas of computer science are encouraged to apply. Commensurate with experience, visiting faculty will teach at introductory, intermediate, or advanced levels. Visiting full-time faculty teach 3 courses each semester and are eligible for travel support and reimbursement of relocation costs within the College's published policies. All full-time appointments offer competitive salaries and include full benefits. The College seeks faculty members whose scholarship, teaching, and service demonstrate commitment to the educational benefits of a richly diverse community. While a Ph.D. in computer science or a closely related field is preferred, candidates with a MS or equivalent degree in computer science or related field, who are ABD, or who

have professional experience are strongly encouraged to apply.

Review of applications will begin immediately. Questions may be directed to Kevin Walsh, kwalsh@holycross.edu.

For more information and to apply, visit: <https://apply.interfolio.com/102091>

The College is an Equal Employment Opportunity Employer and complies with all Federal and Massachusetts laws concerning equal opportunity and affirmative action in the workplace.

Drexel University

Teaching Faculty Positions, CS

Drexel University's Department of Computer Science (drexel.edu/cci/academics/computer-science-department) invites applications for multiple full-time teaching faculty positions in the areas of (i) CS Education and (ii) Computer Systems with an emphasis on computer security and privacy. The successful applicant in CS Education will enjoy a joint appointment with the Drexel University School of Education (<https://drexel.edu/soe/>) focused on the CS Educator pipeline for K-12 as well as teaching introductory computing and methods of teaching courses at the undergraduate and graduate levels (75% CS and 25% Education).

Candidate for the CS Education position should have a masters or doctorate in Computer Science, Education, or a related field and at least 3 years' experience teaching AP Computer Science Principles, AP Computer Science

A, or similar courses to grades 7-12 or undergraduates. Experience leading professional development for in-service teachers is preferred. Experience with and interest in project-based learning, inquiry learning, peer-led teams, and experiential learning is a plus. Excellence in teaching, curriculum development, and dedication to working with students is essential. A successful track record in securing extramural funding is a plus.

Candidate for the Computer Systems position should have a master's degree or higher in Computer Science or related field; relevant industry experience is also desirable. Candidates will be expected to teach Systems and Security courses such as Operating Systems, Networking, Network Security, Security Engineering, Systems Programming and Architecture for our undergraduate and graduate students and to serve as curricular leader in Computer Systems. Excellence in teaching and teaching innovation and dedication to working with students is essential. Interest in course and curriculum development and online teaching is desired.

Drexel University strives to be the most civically engaged, practice-centric university in the United States, one that places high-quality, experiential, immersive teaching and learning at the center of everything we do. The Computer Science Department is housed in the College of Computing and Informatics (drexel.edu/cci). The College and Department are foremost leaders in educating computing and information professionals, combining

high-quality teaching and research in a multidisciplinary and collaborative environment. The College offers a variety of B.S., M.S., and Ph.D. degrees spanning all areas of computing and informatics. CCI is located in a new building with state-of-the-art classrooms, research and student labs, and abundant space to promote collaboration and innovation. The School of Education has a mission to “develop leaders, researchers, and teachers who bring their knowledge and experiences to bear on critical education and learning challenges across a range of educational contexts, from those in the Philadelphia neighborhoods that surround Drexel to others around the globe.”

Applications should consist of a cover letter, CV, and brief statement summarizing teaching experience and relevant professional experience. Letters of reference will be requested from candidates who are invited for an on-campus interview. Electronic submissions in PDF format are required. Evaluation of applications will begin immediately and will continue until the positions are filled. Successful applicants must demonstrate potential for teaching excellence in the environment of a major research university.

Please submit your application at
<https://careers.drexel.edu/en-us/job/497422>.

Emory University

Tenure-Track Faculty Opening

Application website: <https://apply.interfolio.com/97082>

The Information Systems & Operations Management area of the Goizueta Business School of Emory University invites applications for a tenure track position at the assistant professor level. We seek an individual with demonstrated specialization in the areas of **Artificial Intelligence, Machine Learning, and/or Data Analytics** (AI/ML/DA).

The primary responsibilities for the position include research, teaching, and engaging in service activities for the academic discipline, business school, and university. Our search targets candidates with the capacity to effectively teach coursework in AI/ML/DA to a diverse group of students in the undergraduate and graduate programs. Our ideal candidates will contribute to the diversity and excellence of our current faculty through their research, teaching, and service.

Interested candidates should have a Ph.D. in Information Systems, Operations Management, Computer Science or a data science related field by August 1, 2022. A strong record of (or considerable promise for) excellence in research and teaching is required. Salary will be competitive.

Florida International University

Assistant Teaching Professor

Florida International University is Miami’s public research university, focused on student success. According to U.S. News and World Report, FIU has 42 top-50 rankings in the nation among public universities. FIU is a top U.S. research university (R1), with more than \$200 million in annual expenditures. FIU ranks 15th in the nation among public universities for patent production, which drives innovation, and is one of the institutions that helps make Florida the top state for higher education. The Next Horizon fundraising campaign is furthering FIU’s commitment to providing students Worlds Ahead opportunities. Today, FIU has two campuses and multiple centers, and supports artistic and cultural engagement through its three museums: Patricia & Phillip Frost Art Museum, the Wolfsonian-FIU, and the Jewish Museum of Florida-FIU. FIU is a member of Conference USA, with more than 400 student-athletes participating in 18 sports. The university has awarded more than 330,000 degrees to many leaders in South Florida and beyond. For more information about FIU, visit www.fiu.edu.

The Knight Foundation School of Computing and Information Sciences (KFSCIS) is a rapidly growing program of excellence at Florida International University (FIU). The School has 52 faculty members, and over 3,300 students, including 92 Ph.D. students, and close to 250 M.S. students. The School is

engaged in on-going and exciting new and expanding programs for research, education, and outreach. The School offers B.A., B.S., M.S., and Ph.D. degrees in Computer Science, B.S. in Cybersecurity and Information Technology, and M.S. degrees in Telecommunications and Networking, Cyber-security, Data Science, and Information Technology. NSF HERD report ranks FIU #41 in R&D research expenditures in computer and information sciences. SCIS has six research centers/ clusters with first-class computing and support infrastructure and enjoys broad and dynamic industry and international partnerships. Computer Science has been identified as one of the University's strategic growth areas, launching new expansion plans to educate and train technology talent for the burgeoning South Florida Tech Hub. We anticipate adding several teaching-track faculty positions over the next few years, as we surge to become one of the nation's top Computer Science programs. As such, we invite top researchers and educators with outstanding credentials to join our team and share this exciting journey with us.

(Non-Tenure Track) Asst. Teaching Professor Positions (Job ID#)

The Knight Foundation School of Computing and Information Sciences seeks exceptionally qualified candidates for multiple non-tenure track teaching faculty positions at the level of Assistant Teaching Professors. Ideal candidates must be committed to excellence in teaching a variety of courses offered by the school. Candidates who employ innovative, evidence-based teaching pedagogies

are particularly encouraged to apply. A Master's degree in Computer Science or related disciplines is required and a PhD degree is preferred. While this position is not a tenure track position it does have a promotion progression for our teaching faculty. Teaching faculty are eligible for consideration for promotion after five years.

Qualified candidates are encouraged to apply to Job Opening ID 525278 at facultycareers.fiu.edu and attach cover letter, curriculum vitae, statement of teaching philosophy, diversity statement, optionally research statement, etc. Candidates will be requested to provide names and contact information for at least three references who will be contacted upon as determined by the search committee.

Review will start on November 20th, 2021 and continue until position is filled.

KFSCIS is strongly committed to increasing the diversity of our faculty and welcomes applications from women, dual-career couples, historically underrepresented populations and candidates with disabilities.

Florida Statute 1010.35 - Screening Foreign Researchers

Pursuant to Florida law, any citizen of a foreign country who is not a permanent resident of the U.S., or who is a citizen or permanent resident but is affiliated with or has had at least 1 year of employment or training in China, Russia, Iran, North Korea, Cuba, Venezuela, or Syria is subject to additional screening. Applicants meeting those criteria will be required to provide

the following information in the application: every institution of higher education attended; all previous employment since the applicant's 18th birthday; list of all published material, current and pending research funding from any source, including details about the research, your role, funding source, and amount; list and description of any non-university professional activities; any affiliation with an institution or program in a foreign country; a complete copy of your passport; the most recently submitted DS-160 (Online Nonimmigrant Visa Application).

Clery Notice

In compliance with the Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act, the University Police department at Florida International University provides information on crimes statistics, crime prevention, law enforcement, crime reporting, and other related issues for the past three (3) calendar years. The FIU Annual Security report is available online at: <https://police.fiu.edu/download/annual-security-fire-safety-report/>.

To obtain a paper copy of the report, please visit the FIU Police Department located at 885 SW 109th Avenue, Miami, FL, 33199 (PG5 Market Station).

Pay Transparency

Florida International University will not discharge or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or

applicant. However, employees who have access to the compensation information of other employees or applicants as a part of their essential job functions cannot disclose the pay of other employees or applicants to individuals who do not otherwise have access to compensation information, unless the disclosure is (a) in response to a formal complaint or charge, (b) in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or (c) consistent with the contractor's legal duty to furnish information.

FIU is a member of the State University System of Florida and an Equal Opportunity, Equal Access Affirmative Action Employer all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.

Gannon University

Assistant Professor of Computer Science

Gannon University's School of Engineering and Computing seeks two Assistant Professors of Computer Science. The appointments for these nine-month tenure track positions begin in August 2022. The ideal candidate for each position is committed to excellence in innovative undergraduate education and will have experience in teaching in the core computing curriculum, including two or more of the following topic areas: Database systems, Web Programming & Implementation, Object-Oriented Programming, Advanced Programming,

Mobile Application Development, Data Analysis & Visualization, and Cloud Computing. Competency in teaching project-based learning courses in various topics and adapting to changing course load is a plus. The successful candidate will teach computer science and related areas of computer and information science at the undergraduate and graduate levels; lead student projects, prepare motivated students intellectually, professionally, and personally; and advise students. One of the exciting opportunities with this position is to engage in a growing number of entrepreneurial, interdisciplinary, and international projects.

Successful candidates will be expected to engage in scholarly activities in keeping with the Boyer Model of Scholarship appropriate to applying and receiving tenure and promotion at Gannon. Requirements include a Ph.D. (completed by August 1, 2022) in Computer Science, Information Systems, Information Technology, Data Science, Software Engineering, or closely related field; teaching experience in higher education is preferred. ABDs, soon-to-be-completed Ph.D., and master's degree with substantial work experience will be considered. Candidates must support and promote the University's inclusive Mission, its Catholic identity, and its liberal arts and professional education traditions.

Candidates without a doctorate or terminal degree can be considered for a Teaching Track position. Teaching track appointments require a master's degree and relevant professional experience, and prior teaching experience is preferred.

Teaching track faculty members are required to advise students and perform service to the University and/or the community/profession.

Gannon is a comprehensive Masters L institution that is committed to student-centered learning, emphasizing professional education integrated with liberal-learning student outcomes. Located near Lake Erie in Erie, Pennsylvania, the University offers ready access to various cultural and exciting seasonal activities. It is within a two-hour drive of Pittsburgh, Cleveland, and Buffalo. Erie is a medical hub for Northwestern Pennsylvania. There are major medical centers, the largest medical school in the nation, and many clinics. For more information about what Erie has to offer, visit www.visiteriepa.com.

Gannon University seeks excellence through inclusiveness and invites women and members of underrepresented groups to apply. Application Procedure: Submit a cover letter, C.V., evidence of effective teaching methods and productive scholarship in your respective field, and the contact information for three professional references to <https://gannon.peopleadmin.com/postings/7395>.

Review of applications will begin immediately, and this position will remain open until filled. The finalist will be required to submit an original transcript from the institution awarding his/her terminal degree. References will not be contacted without prior notification to the applicants.

For more information about Gannon, visit www.gannon.edu. Gannon University is an Equal Opportunity Employer.

SystemsResearch@Google

"Move Google systems forward, farther, faster"

SystemsResearch@Google (SRG) is looking to hire new PhDs in Computer Science or Computer Engineering with research experience in broad areas of computer systems, including distributed systems, operating systems, networks, hardware architecture, data management, data analytics, and ML for Systems.

Formed in 2021, SRG was created at the heart of Google's engineering organization and is responsible for the hardware and software infrastructure that drives Google Cloud and Google's multiple billion-client Web services. Our mission is to shape the future of hyperscalar systems design for Google and its ecosystem by inventing, incubating, and infusing new concepts, designs, and technologies. The team is co-led by David Culler, former Chair of EECS at UC Berkeley, and Hank Levy, former Director of the Paul G. Allen School at University of Washington. Within SRG, we are bringing together leading systems thinkers from around the world and inside Google. Current technical leads include highly experienced industrial researchers, such as Kim Keeton, Fatma Özcan, and Amy Tai, and a set of talented academics currently on leave with us at Google, such as Sylvia Ratnasamy, Arvind Krishnamurthy, Samira Khan, and Shobha Vasudevan. SRG is hiring in Google's Bay Area and Seattle facilities.

Key Focus Areas:

- ✓ Distributed Systems
- ✓ Operating Systems
- ✓ Networks
- ✓ Hardware Architecture
- ✓ Data Management
- ✓ Data Analytics
- ✓ ML for Systems



For more information:
g.co/jobs/srg

Google is proud to be an equal opportunity workplace and is an affirmative action employer. We are committed to equal employment opportunity regardless of race, color, ancestry, religion, sex, national origin, sexual orientation, age, citizenship, marital status, disability, gender identity or Veteran status. We also consider qualified applicants regardless of criminal histories, consistent with legal requirements. See also [Google's EEO Policy](#) and [EEO is the Law](#). If you have a disability or special need that requires accommodation, please let us know by completing our [Accommodations for Applicants form](#).

Grinnell College

Postdoctoral Fellowship (2-year)

GRINNELL COLLEGE. The Department of Computer Science invites applications for two-year Postdoctoral Fellowship in Computer Science beginning Fall 2022. Eligible candidates must have received their terminal degree in Computer Science or closely-related discipline within 3 years or later of start date. The candidate will conduct research in the foundations of program synthesis, at the intersection of programming language theory and human-computing interaction. The candidate will also teach courses at the introductory CS level as well as in their own area of expertise.

In letters of application, candidates should discuss their potential to contribute to a college community that maintains a diversity of people and perspectives as one of its core values.

To be assured of full consideration, all application materials should be received by March 21.

Please visit <https://jobs.grinnell.edu> for more details about the job and to submit applications. Candidates will need to upload a letter of application, curriculum vitae, transcripts (copies acceptable), research statement, teaching statement, and provide email addresses for three references. Questions about this search should be directed to Professor Peter-Michael Osera at CSSearch@grinnell.edu or 641-269-3169.

Grinnell College is committed to establishing and maintaining a safe

and nondiscriminatory educational environment for all College community members. It is committed to a policy of nondiscrimination in matters of admission, employment, and housing, and in access to and participation in its education programs, services, and activities. The college does not discriminate on the basis of race, color, ethnicity, national origin, age, sex, gender, sexual orientation, gender identity or expression, marital status, veteran status, pregnancy, childbirth, religion, disability, creed, or any other protected class. An offer for this position will be contingent on successful completion of a background check.

Hamad Bin Khalifa University, Qatar

Professor in Computer Science

The College of Science and Engineering, Hamad Bin Khalifa University, Qatar (HBKU) seeks applications for a Full Professor in the field of Operations and Supply Chain Management. Particular emphasis is for candidates with a background in one or more of the following areas: Sports and Entertainment Management, Supply Chain Management and Logistics, Artificial Intelligence, Networking and Communications technologies, Cyber Security and Smart city systems.

HBKU faculty benefits from superb research facilities, generous research funding and internationally competitive salaries. Faculty responsibilities will include teaching courses in the undergraduate and graduate programs,

supervision of student research, conducting original scholarly research in related topics, and providing service to the university and the profession.

Required Qualifications & Skills for all Faculty Positions. Applicants should hold a Ph.D. in related fields.

The candidate is expected to have a strong research potential, demonstrated by relevant publications in top-tier conferences and high-impact journals as well as adequate teaching and advising experience at postgraduate level.

Senior candidates must have demonstrated strong leadership in the field.

Preference will be given to candidates with education from and/or previous work experience in preeminent institutions of higher education.

How to Apply:

Please submit your completed application (CV, cover letter, and the names of three references with their full contact information) via the following link: <https://www.hbku.edu.qa/en/CSE-MFPCSSM>

DeadlineReview of applications is expected to begin soon and continue until the position is filled. Shortlisted candidates will be called for interviews.

Remuneration

HBKU offers an attractive compensation package that includes a tax-free salary and additional benefits such as an education allowance, furnished accommodation, annual paid leave, flight tickets, and medical insurance.



Founding Tenured/Tenure-Track Faculty

The Hong Kong University of Science and Technology (HKUST) is a leading international university ranked 1st by Times Higher Education Young University Rankings 2020 and 27th by QS World University Rankings 2021. HKUST establishes a new campus in Guangzhou, China (hkust-gz.edu.cn). The Guangzhou campus synergizes with and maintains the same academic standard as the Clear Water Bay campus. Microelectronics Thrust is an academic department in the Guangzhou campus and focuses on integrating novel electronic and photonic devices into circuits, architecting information systems, and automating their designs and optimizations.



Microelectronics Thrust has multiple tenured/tenure-track positions at the ranks of Assistant Professor, Associate Professor, and Professor. Applicants should have a PhD degree and research in areas such as:

- Compilation techniques; operating system; system software
- Processor, memory, and storage system architecture; reconfigurable architecture; interconnection network; multiprocessor
- HPC and data center; embedded system; system-on-chip; system-in-package; quantum computing; neural computing; approximate computing; power management; thermal management
- Electronic design automation; photonic design automation; hardware-software codesign; modeling and simulation technology
- RF/mm-Wave/terahertz technology; integrated photonic circuit; memory device; quantum device; emerging technology

English is the instruction and administration medium at the Guangzhou campus, and a good command of written and spoken English is required.

- Applicants of tenure-track Assistant Professor should demonstrate strong research and teaching potentials.
- Applicants of Associate Professor should have a proven record in research, teaching, student supervision, and funding.
- Applicants of Professor should have world-class academic achievements, international academic leadership, and an established track record in teaching, student supervision and funding.

Salary and Conditions: Salary is of international standard and highly competitive. Generous research funding, ample laboratory space, and excellent research equipment and support will be provided. All the positions are tenured/tenure-track appointments in mainland China and offered by the HKUST mainland entity in accordance with the local employment laws and regulations. The appointments to Full Professor and some Associate Professor will be made on substantive basis. The initial appointments to Assistant Professor will be made on a fixed-term contract of up to three years, and re-appointments thereafter will be subject to performance and mutual agreement.

Application Procedure: Applications should be submitted at <https://facrecruit.hkust.edu.hk> which will be open until the positions are filled. If there is any question, please contact the Acting Head, Prof. Jiang Xu, at jiang.xu@ust.hk. HKUST is committed to equal opportunity and diversity in recruitment and employment. We strongly encourage candidates of diverse backgrounds to apply.



HBKU, as an equal opportunity educator and employer, is committed to maintaining culturally and academically diverse staff of the highest caliber.

Harvey Mudd College

One-year/Two-year Visiting Professor Positions in Computer Science (open rank)

The Computer Science Department at Harvey Mudd College (HMC) invites applications for one-year and two-year Visiting Professor positions in computer science starting in the 2022-23 academic year. Candidates in all areas of computer science and at all ranks, including Associate or Full Professors planning a sabbatical or retirement visit, will be considered.

HMC is a highly selective undergraduate liberal arts college (850 students) emphasizing science, mathematics, and engineering. HMC is part of the Claremont Colleges, a consortium that includes five colleges and two graduate schools. The Computer Science Department currently has sixteen tenure-track faculty members and anticipates searching for additional tenure-track faculty during the 2022-23 academic year. The department and the college place a high value on effectively engaging students from traditionally underrepresented groups, and candidates from these groups are especially encouraged to apply.

Learn more/apply at: <https://academicjobsonline.org/ajo/jobs/20946>

Harvey Mudd College is an equal opportunity and affirmative action

employer committed to providing a workplace free of discrimination, harassment, and disrespectful or other unprofessional conduct (HMC EEO/Nondiscrimination Statement).

Kennesaw State University

Computer Science, Information Technology, and Software Engineering department chairs, tenure track and teaching faculty multiple ranks

For more than 50 years, Kennesaw State University has been known for its entrepreneurial spirit and sense of community. A leader in innovative teaching and learning, Kennesaw State is located just north of Atlanta, and combines a suburban setting on two metro-Atlanta campuses in Kennesaw and Marietta. As one of Georgia's largest universities (over 43,000 students), Kennesaw State offers undergraduate and graduate degrees, including a growing number of doctoral programs. A member of the University System of Georgia, Kennesaw State is a Carnegie-designated doctoral research institution (R2) committed to becoming a world-class academic institution positioned to broaden its academic and research missions and expand its scope on a local, regional, and national level. For more information, visit <http://kennesaw.edu>.

The College

The College of Computing and Software Engineering (CCSE) at Kennesaw State University (KSU) is home to more than 4000 students studying Computer Science,

Data Science and Analytics, Software Engineering, Computer Game Design and Development, and Information Technology in six undergraduate, four masters, one Ph.D. (in Data Analytics), ten certificates, and five minor programs. With an emphasis on theory and practice, students have experiential learning opportunities and partner with companies through internships, co-ops, sponsored capstone projects, and theoretical and applied research. The College emphasizes academic quality, student success, graduate student growth, research, and provides ever-expanding opportunities for collaboration with partners within KSU and beyond. In addition to promoting excellent education, CCSE is cultivating a strong research culture that has resulted in a varied and internationally recognized set of research products and is constantly increasing funded research engagements. In FY 2021, CCSE generated over \$1.6 M and is trending an upward trajectory of increasing new funding by 30% in FY2022. To support this growth, CCSE has established three research centers and more than 20 research labs, is expanding its research infrastructure, and has as a priority to establish a PhD in Computer Science. For more information, visit <http://ccse.kennesaw.edu>

Why Atlanta <https://www.selectgeorgia.com/discover-georgia/industries/why-atlanta/>

Positions Available: department chairs, tenure track and teaching faculty multiple ranks, and a grant writer. See more at <https://ccse.kennesaw.edu/jobs.php>

Kent State University

*Faculty Non-Tenure Track-12 Mo
Computer Science
[Job #999175]
Kent Campus - Kent, OH*

Kent State University's Department of Computer Science is seeking applicants to fill a 12-month Non-Tenure Track faculty position with a preferred specialization in Cybersecurity.

Expected qualifications include a Ph.D. in Computer Science, Computer Engineering, Cybersecurity, or a related field.

Candidates without a PhD with strong industrial and/or curricular program development are also welcomed to apply. Experience in related teaching, industrial exposure, professional trainings, and managing security-related academic programs will be highly valued. In addition to teaching, this position will be integral to creating and managing our on-line master's degree program. There will also be opportunity to engage in collaborative research and student advising. Salary and compensation are competitive and commensurate with academic qualifications and experience. Review of applications will begin immediately and continue until the position is filled.

The department runs one of the oldest and strongest programs in Cybersecurity in the State of Ohio and is compliant with NSA/ACM and other national curriculum recommendations. Our department offers the B.S., B.A., M.S., M.A., and Ph.D. degrees in computer science, along with M.S. degrees in data science and artificial intelligence. The department has

17 full time faculty, and currently enrolls over 500 undergraduates and over 100 graduate students. Kent state university is in northeast Ohio and has a student population of approximately 27,000. The beautiful park-like campus is within walking distance from downtown Kent. The city has recently undergone a major rejuvenation and has a vibrant town center with many new restaurants and shops. Kent state is considered one of best institutions to work for in the nation. More information about the department can be found at <http://www.cs.kent.edu>.

Candidates should submit a cv, statement of interest, diversity statement, and demonstrate knowledge of online curriculum delivery.

For a complete description of this position and to apply online, visit our jobsite at <https://jobs.kent.edu>

Equal Opportunity / Affirmative Action Employer / Disabled / Veterans

Louisiana State University

Assistant/Associate/Full Professor

The Division of Computer Science and Engineering within the School of Electrical Engineering and Computer Science at Louisiana State University (LSU) - Baton Rouge invites applications for a tenure-track faculty position at the rank of assistant professor, beginning August 2022. Our focus area is applied cybersecurity. An ideal candidate will have research and teaching interests in one or more of the following areas: software reverse engineering, malware analysis,

memory forensics, digital forensics, cyber operations, and exploit development. Exceptionally qualified candidates at the rank of associate and full professor will also be considered.

The School of Electrical Engineering and Computer Science is comprised of the Computer Science and Engineering (CSE) Division and the Electrical and Computer Engineering (ECE) Division. The CSE division (www.cse.lsu.edu) has a strong record in research and graduate training (MS and PhD degrees), with ongoing federal, state and industry-funded research projects in many key areas of computer science. The CSE division offers a concentration on cybersecurity for undergraduates, has funding from the National Science Foundation for the Scholarships for Service (SFS) program, and is currently undergoing review for designation as an NSA-designated Center of Academic Excellence in Cyber Operations (CAE-CO). We are also building a cyber range under the new FIREstarter program, in collaboration with the Louisiana State Police, to expose students to large scale defensive and offensive cyber operations. Excellent opportunities exist for collaboration with the ECE division and other departments in the College of Engineering, and the Center for Computation and Technology. LSU-HPC provides state-of-the-art supercomputing and storage facilities enabling research collaborations across diverse fields.

Responsibilities:

Teach graduate and undergraduate courses in cybersecurity; establish a

vigorous, extramurally funded research program; publish in highly ranked journals or conference proceedings; supervise graduate students; and serve on committees to support the department's and LSU's educational and research missions. The position will be 50% teaching and 50% research. LSU has a large number of highly motivated cybersecurity students and in selecting applicants for this position, strong emphasis will be placed on a candidate's ability to teach effectively in a program that emphasizes hands-on cybersecurity.

Minimum Qualifications:

Ph.D. in Computer Science or relevant discipline and must have a record of published research and the ability to attract funding. A strong emphasis will be placed on a candidate's ability to teach effectively in a program that emphasizes hands-on cybersecurity.

Applicants who are all but dissertation (A.B.D.) and will complete their Ph. D. by the time of the appointment will be considered. Women and minorities are strongly encouraged to apply.

Apply Here:

https://lsu.wdl.myworkdayjobs.com/LSU/job/3325-Patrick-F-Taylor-Hall/Assistant-Associate-Full-Professor_00061808

Special Instructions:

Please include the following documents and information to your online application: email and mailing address, curriculum vitae, teaching philosophy statement,

research plan statement and three professional references.

A copy of your transcript(s) may be attached to your application (if available). However, original transcripts are required prior to hire.

Campus interviews will be conducted in Baton Rouge, LA, prior to an offer being extended. Any offer of employment is contingent on a satisfactory pre-employment background check. Applications will be reviewed beginning on February 15, 2022 and the review will continue until the position is filled. We strongly encourage early applications. Inquiries should be directed to the Faculty Search Committee via email at csesearch@lsu.edu.

An offer of employment is contingent on a satisfactory pre-employment background check.

Special Instructions:

Teach graduate and undergraduate courses in cybersecurity; establish a vigorous, extramurally funded research program; publish in highly ranked journals or conference proceedings; supervise graduate students; and serve on committees to support the department's and LSU's educational and research missions. The position will be 50% teaching and 50% research. LSU has a large number of highly motivated cybersecurity students and in selecting applicants for this position, strong emphasis will be placed on a candidate's ability to teach effectively in a program that emphasizes hands-on cybersecurity.

Additional Position Information:

- Background Check - An offer of employment is contingent on a satisfactory pre-employment background check.
- Benefits - LSU offers outstanding benefits to eligible employees and their dependents including health, life, dental, and vision insurance; flexible spending accounts; retirement options; various leave options; paid holidays; wellness benefits; tuition exemption for qualified positions; training and development opportunities; employee discounts; and more!

LSU is an Equal Opportunity Employer:

LSU believes diversity, equity, and inclusion enrich the educational experience of our students, faculty, and staff, and are necessary to prepare all people to thrive personally and professionally in a global society. We celebrate diversity and are committed to the principles of diversity and inclusion. We actively seek and encourage qualified applications from persons with diverse backgrounds, cultures and experiences. To learn more about how LSU is committed to diversity and inclusivity, please see LSU's Diversity Statement and Roadmap. Persons needing accommodations or assistance with the accessibility of materials related to this search are encouraged to contact the Office of Human Resource Management (hr@lsu.edu).

COVID-19 Vaccine Protocol:

LSU requires the COVID-19 vaccine for all students, faculty, and staff or mandatory monthly testing. New employees must either submit proof of vaccination within

three (3) days of their official start date, otherwise they will be entered into the mandatory monthly testing protocol beginning in November 2021.

HCM Contact Information:

Questions or concerns can be directed to the LSU Human Resources Management Office at 225-578-8200 or emailed HR@lsu.edu

NEC Laboratories America, Inc.

Researcher - Machine Learning

NEC Labs' Machine Learning department has openings for researchers with a passion for developing the next generation of machine intelligence and expertise in machine learning with a proven track record of original research, as well as a keen sense for developing practical applications are prerequisites for this position.

Our Machine Learning group has been at the forefront of research in such areas as deep learning, support vector machines, and semantic analysis for almost two decades. Many technologies developed in our group have been released as innovative products and services of NEC, such as systems for recruiting, surveillance, inspection of manufactured goods, and digital pathology. In addition to contributing to NEC's business, our research is published in premier venues. Among the challenges we are tackling now are how to move machine learning to more abstract reasoning and how this can enable new applications in smart manufacturing, safe cities, and personalized healthcare.

<http://www.nec-labs.com/research-departments/machine-learning/machine-learning-home>

Requirements:

- PhD in computer science, statistics, or equivalent
- Research experience in machine learning with strong publication record
- Strong algorithm and numeric computation background
- Programming experience in Python, Lua, C++, or other languages
- Experience with deep learning libraries and platforms a plus, e.g. PyTorch, TensorFlow, or Caffe

For more information about NEC Labs, please access <http://www.nec-labs.com/>, and submit your CV and research statement

through our career center at https://www.appone.com/MainInfoReq.asp?R_ID=4141735.

Equal Opportunity Employer

Oberlin College

Visiting Assistant Professor in Data Science

Oberlin College invites applications for a Visiting Assistant Professor in Data Science, two-year full-time non-continuing faculty position in the College of Arts and Sciences to begin Fall 2022. Responsibilities include teaching five undergraduate courses per year in undergraduate data science, broadly construed. Ph.D. degree (in hand or expected by fall semester 2022) required in a field related to data science, including (but not limited to) Computer



Director of Penn State's Center for Applications of Artificial Intelligence (AI) and Machine Learning (ML) to Industry (AIMI)

The Pennsylvania State University seeks applications for an open-rank tenure-track/tenured faculty position to serve as the Director of Penn State's Center for Applications of Artificial Intelligence (AI) and Machine Learning (ML) to Industry (AIMI). AIMI is part of an exciting 5-year Penn State strategic initiative in the Institute for Computational and Data Sciences (ICDS). The successful candidate will lead a university-wide interdisciplinary research center focused on facilitating innovative research in the broad area of artificial intelligence underwritten by corporate funding. The AIMI Director will connect researchers with diverse backgrounds and unite them in pursuing novel ideas which will simultaneously advance the field of AI research and AI applications inspired by industry needs while increasing recognition of Penn State as a leading university in AI. The AIMI Director will engage with industry sponsors and facilitate outreach activities to grow AI more broadly at Penn State.

Working with our research commercialization leaders, the successful candidate will engage industry partners, technology transfer, and commercialization. We will prioritize candidates who have experience supervising and/or collaborating with research team members from diverse backgrounds.

To Apply, visit: <https://apptrkr.com/2805422>

Science, Statistics, or Mathematics. Must demonstrate potential excellence in teaching.

To be assured of consideration, submit a letter of application, a curriculum vitae, teaching and research statements, graduate academic transcript, and at least three recent letters of reference* through <https://jobs.oberlin.edu/> by February 14, 2022.

Link: <https://jobs.oberlin.edu/postings/11490>

Purdue University

Assistant/Associate Professor Quantum Information Science - Computer Science

The Department of Computer Science as part of the College of Science at Purdue University invites applications for possibly multiple position in Quantum Information Science (QIS) to begin August 2022. These positions will be at the assistant/associate professor level based on scholarly record. When appropriate, successful candidates may be considered for joint and interdisciplinary appointments across the College.

QIS is at the frontier of several traditional research disciplines including pure and applied mathematics; computer science and information theory; condensed matter, atomic, molecular, and optical physics; and chemistry. QIS strives to harness the unusual quantum mechanical properties of superposition and entanglement to provide breakthrough advances for computing, secure communications, and novel device functionalities. As such, QIS is part of a large-

scale interdisciplinary hiring effort across key strategic areas in the departments of Chemistry, Computer Science, Mathematics, and Physics & Astronomy.

The College of Science is Purdue's second-largest college, comprising the physical, computing, and life sciences—these positions come at a time when the College is under new leadership and with multiple commitments of significant investment. The College of Science is especially seeking to enhance our existing strengths in research at the interface of Chemistry and Physics in tandem with Computer Science and Mathematics through strategic hiring of creative scientists to be part of the cutting-edge interdisciplinary environment provided by Purdue University.

Target Areas:

Successful candidates will have interdisciplinary research interests that can help build a comprehensive suite of capabilities in quantum algorithm research, information theoretic analysis and topological quantum computing. This includes all aspects of the quantum computing stack: theory, algorithms, machine learning, optimization, data analytics and systems – as related to QIS.

Qualifications:

Candidates must have a PhD computer science, or a closely related field, with outstanding credentials in research related to QIS, an excellent track record of publications and potential for developing a vibrant research program, as well as a strong commitment to excellence in

teaching. Successful candidates are expected to develop an outstanding research program supported by extramural funding and teach courses at the undergraduate and/or graduate level.

The Department and College:

The Department of Computer Science has over 60 tenured and tenure-track faculty, close to 500 graduate students, and over 2000 undergraduate students. Over the last years there has been a significant investment in key areas of discovery. The College and the Departments have launched initiatives in new emerging areas, such as Data Science and Quantum Information Science, and committed the resources necessary to make the new growth impactful. In QIS 7 faculty members have been hired in the past 2 years. For more information, see <https://www.cs.purdue.edu/>. Purdue is one of the nation's leading land-grant universities, with an enrollment of over 49,000 students primarily focused on STEM subjects. For more information, see <https://www.purdue.edu/purdue/moves/initiatives/stem/index.php>.

Application Procedure:

Applications must be submitted to [this site](#) and must include (1) a cover letter (including a discussion of diversity efforts as indicated below), (2) a complete curriculum vitae with publication list, (3) a brief statement of present and future research plans, and (4) a statement of teaching philosophy. In addition, candidates should arrange for at least 4 letters of reference, one of which discusses the candidate's teaching

qualifications, to be sent to gissearch@purdue.edu. Questions regarding the position and search should be directed to rkaufman@purdue.edu.

Purdue University's Department of Computer Science is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in a separate Diversity and Inclusion Statement, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion. A background check will be required for employment in this position.

Reed College

Two-Year Visiting Position in Computer Science

The Department of Computer Science at Reed College invites applications for a two-year visiting faculty position, rank open, beginning in the fall of 2022. Applicants are expected to have a Ph.D. in computer science or a related field by the time of their appointment and should be committed to excellence in their teaching and in their scholarship. The successful candidate would teach core and elective courses in computer science and will advise several year-long senior thesis projects.

Reed is a distinguished liberal arts college with approximately 1400 students that offers a demanding academic program to bright and dedicated undergraduates. Applicants to the position are encouraged

to contact Adam Groce (agroce@reed.edu), the chair of the search committee, for further details about the position and the college's computer science program.

Applicants should submit their applications electronically through the Interfolio service (apply at <http://apply.interfolio.com/100866>) and should include a cover letter, curriculum vitae, teaching statement, research statement, diversity statement, and three letters of recommendation. The cover letter should address how the applicant's teaching and scholarship would contribute to Reed's small, selective undergraduate environment. The diversity statement should address how the applicant can further the diversity and inclusivity of the computer science program.

Applications for the position will be considered on a rolling basis as they are received and will be accepted until the position is filled, but we encourage applicants to apply by February 28, 2022.

Reed College is an Equal Opportunity Employer and is committed to building an excellent diverse scholarly community. Members of underrepresented groups are especially encouraged to apply.

Reed College

Tenure-Track Faculty Position in Computer Science

The Department of Computer Science at Reed College invites applications for an open rank tenure-track faculty position beginning in the fall of 2022. Applicants should have a Ph.D. in computer science

or a closely related field by the time of the appointment and should be committed to excellence in undergraduate teaching and in research. The successful applicant will teach in the core computer science curriculum at all levels, will develop one or more courses in the applicant's area(s) of expertise, and will work to foster a welcoming and engaged community. They will maintain an active research program, ideally providing opportunities for student involvement, and they will advise several year-long senior thesis projects. Applicants from all areas of computer science are encouraged to apply.

Reed is a distinguished liberal arts college that offers a demanding academic program to approximately 1400 bright and dedicated undergraduate students. Reed believes that this requires a faculty that is actively engaged in cutting-edge research and provides the resources necessary to enable that research. The college believes that cultural diversity is essential to the excellence of our academic program (see <https://www.reed.edu/diversity/>).

Applicants to the position are encouraged to contact Adam Groce (agroce@reed.edu), the chair of the search committee, for further details about the position and the college's computer science program. Information about the position is also posted at <https://www.reed.edu/computer-science/faculty-search.html>.

Application Instructions

Applicants should submit their applications electronically through the Interfolio at <http://apply.interfolio.com/100862> and should include a

cover letter, curriculum vitae, teaching statement, research statement, diversity statement, and three letters of recommendation. The cover letter should address how the applicant's teaching and scholarship would contribute to Reed's small, selective undergraduate environment. The diversity statement should address how the applicant can further the diversity and inclusivity of the computer science program.

Applications submitted by January 31, 2022 are guaranteed full consideration, although review of applications will continue until the position is filled.

An Equal Opportunity Employer, Reed values diversity and encourages applications from underrepresented groups.

Rensselaer Polytechnic Institute

Lecturer in Computer Science

The School of Science at Rensselaer Polytechnic Institute in Troy, NY invites applications for the position of Lecturer in the Department of Computer Science (<http://www.cs.rpi.edu>) to start in August of 2022. Candidates must possess a terminal degree (Ph.D. or equivalent) and should have teaching expertise in both introductory courses and upper level computer science electives. The initial appointment is for up to three academic years, with the expectation of subsequent renewal. The successful candidate should have strong teaching, advising, and mentoring skills. The ideal candidate will be an individual with a comprehensive

vision of computer science education, as well as the skills needed to integrate into a multi-disciplinary department. Evidence of teaching effectiveness may include student evaluations, syllabi, and/or sample assignments. As Rensselaer approaches its 200th anniversary, come join our team as we guide a community of brilliant undergraduate and graduate Computer Science students toward future technological leadership.

Screening of applications will begin immediately and will continue until the position is filled. Qualified applicants must submit their applications through:

<https://careers.rpi.edu/en-us/job/492620/lecturer-sr-lecturer-professor-of-practice-school-of-science>

We welcome candidates, who bring diverse intellectual, geographical, gender, and ethnic perspectives to Rensselaer's work and campus communities.

Rensselaer Polytechnic Institute is an Affirmative Action/Equal Opportunity Employer.

Rutgers University, Camden

Assistant Teaching Professor-Computer Science

Rutgers University, Camden seeks to fill a non-tenure track (NTT) full-time Assistant Teaching professor position in the Department of Computer Science (<http://cs.camden.rutgers.edu/>), beginning September 2022. The position includes university benefits and is for a 2-year

initial appointment with the possibility of repeated renewals, each for at least 2 years. NTT faculty are eligible for academic promotion to higher rank.

The successful candidate will be able to teach broadly in all major areas of computer science and will be expected to provide effective instruction and advising to a diverse population of undergraduate students. A strong preference will be given to candidates able to offer courses in systems programming, operating systems, cloud computing, computer networks, and software engineering. In addition, candidates with an interest in teaching topics in applied computer security are strongly encouraged to apply.

The teaching load for non-tenure track positions is four courses each fall and spring semester, though one course per semester may be substituted by advising, administrative responsibilities, or for the development of new elective courses. A M.S. degree in computer science is required. A Ph.D. degree is strongly preferred.

Interested candidates must upload a single PDF file containing 1) a cover letter, 2) a Curriculum Vitae, 3) a statement on their teaching philosophy, and 4) the names of three references.

Inquiries may be directed to Suneeta Ramaswami, Search Committee Chair at suneeta.ramaswami@rutgers.edu.

All applications received by March 1, 2022 will receive maximum consideration, but we will continue to accept applications until the position is filled. Rutgers

is an Equal Opportunity/Affirmative Action employer. The Computer Science department seeks to attract diverse faculty of the highest caliber. Women and minorities are encouraged to apply.

<https://jobs.rutgers.edu/postings/152076>

Salisbury University

Associate/Full Professor of Computer Science

The Department of Computer Science in the Henson School of Science and Technology is accepting applications for the position of **associate/full professor of computer science and the Chair of the Department**. This is a tenure-track position; tenure will be conveyed to those candidates with a proven track record of excellence in teaching, scholarship and leadership. The Department, launched in 2021, has significant strengths in software engineering, high performance computing, and network security. The faculty are particularly committed to teaching excellence and undergraduate student research.

Area of Specialization:

Candidates with any specialization in Computer Science are welcome to apply.

Primary Job Duties:

The successful applicant will be expected to: 1) provide departmental leadership including program development and administration, faculty development, student and faculty relations, department administration and university governance;

2) teach two courses per semester in computer science at the introductory and advanced levels and contribute to the computer science curriculum; 3) involve undergraduate students in research; 4) provide service to the Department, School, University, and community; and 5) serve as an academic advisor and professional mentor to computer science students.

Minimum Qualifications:

Ph.D. in Computer Science or related field. Experience or demonstrated potential as an effective teacher with strong instructional skills and utilize effective teaching methods to enhance the success of diverse learners.

Preferred Qualifications:

Candidates with prior leadership experience at the departmental, school, or university level within an academic environment are preferred. Experience in one or more of the following is also a plus: artificial intelligence, high performance computing, networking and computer security, system software, database, software engineering. Strong programming skills in C++, Java, and/or Python.

Applications received by **March 1, 2022** will be given first consideration. The position will remain open until filled. Salary is competitive and commensurate with qualifications and experience. Appointment will be contingent upon verification of eligibility to work in the U.S. and is expected to begin August 15, 2022. Please visit our website <http://www.salisbury.edu/HR/careers/> to apply online. See the FAQs of the Online

Employment Application System for more information and instructions.

*To be considered an applicant, you **must apply online** and submit the following: 1) A letter of interest; 2) curriculum vitae; 3) statements of research and teaching interests; 4) statement of diversity that describes personal and professional experiences that will enable the candidate to support a diverse student population; 5) unofficial transcripts; 6) the names and contact information of at least three (3) professional references. If you have any questions about the position, please contact the Search Committee Chair, Dr. Giulia Franchi at gxfranchi@salisbury.edu.*

This position is based in Salisbury, MD, an area with a culturally diverse population with rich cultural experiences. Salisbury University, a member of the University System of Maryland is a regionally accredited four-year comprehensive institution offering 60 distinct graduate and undergraduate programs. Founded in 1925, Salisbury University features a beautiful campus close to ocean beaches and the Chesapeake Bay and 2-3 hours from the metropolitan areas of Washington, Baltimore, Philadelphia, and Norfolk. SU is consistently ranked among the nation's top colleges and 'best values' by U.S. News & World Report, The Princeton Review and other publications. SU has 416 full-time faculty members serving a student population of approximately 8700.

Diversity and inclusion are core values of Salisbury University. We strive to create a truly diverse and inclusive

environment where the richness of ideas, backgrounds, and perspectives of our community is harnessed to create value for our University community to include students, faculty, and staff, today and in the future. To this end, the University recruits exceptional and diverse faculty, staff, and students from across Maryland, the United States, and around the world, supporting all members of the University community as they work together to achieve institutional goals and vision. To learn more about the University's commitment to fostering a diverse and inclusive campus, please visit <http://www.salisbury.edu/equity/> or <https://www.salisbury.edu/administration/diversity-and-inclusion/>.

Salisbury University (SU) has a strong institutional commitment to diversity and equal employment opportunities to all qualified people. To that end, the University prohibits discrimination on the basis of sex, gender, marital status, pregnancy, race, color, ethnicity, national origin, age, disability, genetic information, religion, sexual orientation, gender identity or expression, veteran status or other legally protected characteristics. Direct all inquiries regarding the nondiscrimination policy to: Humberto Aristizabal, Associate Vice President, Institutional Equity, Title IX Coordinator, 100 Holloway Hall, Tel. (410) 548-3508.

Southern Methodist University

Department of Computer Science Lecturer in Computer Science Position Numbers: 52678 & 53370

The Department of Computer Science in the Lyle School of Engineering at Southern Methodist University (SMU) invites applications for two full-time lecturer positions beginning in Fall 2022. These positions are 9-month full-time, non-tenure track faculty appointments at the rank of Lecturer or Senior Lecturer, based on the candidates' experience and accomplishments. Salary will be commensurate with qualifications. Opportunities exist to augment the academic year salary by assisting with summer or intersession instruction.

Duties include teaching and development of computer science courses at both the undergraduate and graduate level. We welcome candidates with broad background in computer science fields, including but not limited to, AI/machine learning, software engineering, cybersecurity, programming languages, database, cloud computing, networks and systems, and computer science education. The expected teaching load will be four courses in each regular fall and spring semester. Preference will be given to candidates with a demonstrated record of excellence in teaching that incorporates active learning.

A minimum of an M.S. degree in Computer Science, Software Engineering, or a related discipline is required by the time

of appointment. Preference will be given to candidates with a Ph.D. degree by the start of employment.

Screening of applications begins immediately. For full consideration, application materials should be received by March 1, 2022. However, applications will be accepted until the positions are filled. Hiring is contingent upon the satisfactory completion of a background check.

To apply, please submit the following items to Interfolio (<http://apply.interfolio.com/101222>): cover letter, curriculum vitae, statement of teaching philosophy, diversity statement, and contact information for three professional references. Applicants are welcomed to provide evidence of excellence in teaching such as a sample of teaching materials developed by you.

The Department of Computer Science at SMU offers B.S. (accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org>), B.A, M.S, Ph.D., and professional doctoral degree programs spanning the fields of Computer Science, Cybersecurity, and Software engineering (<https://www.smu.edu/Lyle/Academics/Departments/CS>). For questions, please contact Ms. Beth Minton, Department Coordinator at beth@lyle.smu.edu.

SMU is a private research university less than five miles from downtown Dallas, whose metroplex hosting one of the highest concentrations of high-tech jobs in the nation. SMU has over 12,000 students and over 1,100 faculty members. SMU campus is constantly ranked as

one most beautiful campus in America and also hosts the George W. Bush Presidential Center.

SMU will not discriminate in any program or activity on the basis of race, color, religion, national origin, sex, age, disability, genetic information, veteran status, sexual orientation, or gender identity and expression. The Executive Director for Access and Equity/Title IX Coordinator is designated to handle inquiries regarding nondiscrimination policies and may be reached at the Perkins Administration Building, Room 204, 6425 Boaz Lane, Dallas, TX 75205, 214-768-3601, accessequity@smu.edu.

Stevens Institute of Technology

Chair, Department of Computer Science

The Charles V. Schaefer, Jr. School of Engineering & Science (SES) at Stevens Institute of Technology (Stevens) invites nominations/applications for the position of Chair, Department of Computer Science (CS). Serving a renewable five-year term and reporting to the SES Dean, the Chair will be appointed as a full-time tenured faculty member in CS and will be encouraged to remain active in research, with strategic leadership of the Department as their top priority. The Chair will be a member of the Dean's leadership team. Exceptionally qualified individuals may hold an endowed professorship during their term(s) as Chair.

Department of Computer Science -

The Department of Computer Science is

home to 26 full-time faculty members, including 16 hired in the last five years, and approximately 1,000 undergraduate and graduate students. It is the main occupant of the Institute's new \$45M state-of-the-art academic building. Please visit the department's website for more information. The Department of Computer Science is a member of the Schaefer School of Engineering and Science - the largest school of the four schools/college at Stevens Institute of Technology, comprising over 70% of the total student population. SES is ranked among the Top 25 STEM Colleges by Forbes.

Stevens Institute of Technology -

The Innovation University - is a premier private research university with a 55-acre hilltop campus situated in an ideal location directly across the Hudson River from New York City. Since its founding in 1870, technological innovation has always been the hallmark and legacy of Stevens' education and research. Within the university's three schools and one college, approximately 7,200 undergraduate and graduate students collaborate closely with faculty in an interdisciplinary, entrepreneurial environment.

Qualifications - The Chair will hold a Ph.D. in Computer Science or a related discipline and have a record of success and leadership in research and education. Qualifications should be commensurate with appointment as a Full professor. Faculty experience and familiarity with academic administration are also required. A commitment to cultivating a climate in the department where students, faculty, and staff from diverse backgrounds can thrive is essential.

To Apply - The School of Engineering & Science has engaged Opus Partners (www.opuspartners.net) to support the recruitment of this position. Craig Smith, Partner, and Jeff Stafford, Senior Associate, are managing the search. Applicants are invited submit a letter of interest outlining their experience in and vision for research, education, and academic leadership; their CV; and a statement describing their contributions to diversity, equity, and inclusion to Jeff Stafford via Jeffrey.stafford@opuspartners.net. Nominations, recommendations, expressions of interest, and inquiries should be sent to the same address. All possible discretion will be exercised to maintain the privacy of applicants through the search process. Review of applications will begin immediately and will continue until the position has been filled. Verification of educational credentials and a background check will be conducted at the time of hire.

Stevens values diversity and seeks candidates who will contribute to a welcoming and inclusive environment for students, faculty and staff of all backgrounds. We are an NSF ADVANCE institution committed to equitable practices and policies, and strongly encourage applications from women, racial and ethnic minorities, veterans, and individuals with disabilities.

Stevens Institute of Technology is an Equal Opportunity Employer. Accordingly, Stevens adheres to an employment policy that prohibits discriminatory practices or harassment against candidates or employees based on legally impermissible factor(s) including, but not necessarily limited to,

race, color, religion, creed, sex, national origin, nationality, citizenship status, age, ancestry, marital or domestic partnership or civil union status, familial status, affectional or sexual orientation, gender identity or expression, atypical cellular or blood trait, genetic information, pregnancy or pregnancy-related medical conditions, disability, or any protected military or veteran status. Stevens is building a diverse faculty, staff and student body and strongly encourages applications from female and minority candidates, as well as veterans and individuals with disabilities. Stevens is a federal contractor under the Vietnam Era Veterans' Readjustment Assistance Act (VEVRAA) and the Rehabilitation Act of 1973, as well as other federal statutes.

SUNY Korea

Assistant/Associate/Full Professor and Teaching Professor Positions

The Computer Science Department of SUNY Korea (<https://sunyk.cs.stonybrook.edu/>) invites applications for tenure-track and teaching-track positions, to start in Fall 2022 or Spring 2023.

(A) Tenure-Track Faculty Position: An excellent faculty member is sought at all levels in all areas of computer science. The position will be tenured or tenure-track at SUNY Korea, and will carry an affiliated faculty position with the Computer Science Department at Stony Brook University – State University of New York (SUNY), Stony Brook, NY (<https://www.cs.stonybrook.edu/>). Applicants should hold a PhD in Computer Science or closely related field and exhibit a strong commitment to research and teaching.

(B) Teaching-Track Faculty Position: An excellent full-time teaching faculty is sought at the junior or senior level. The candidate is expected to teach introductory and advanced CS undergraduate and possibly graduate courses. It is possible for an excellent candidate to be converted into tenure-track at SUNY Korea at a later time. Engaging in research is encouraged but not mandatory. Applicants should hold a PhD or MS in Computer Science or a closely related field and exhibit a strong commitment to teaching.

The SUNY Korea CS department offers BS (ABET accredited), MS, and PhD degree programs and is tightly integrated with the highly ranked CS department at Stony Brook University. The academic degrees awarded at SUNY Korea are identical to those of Stony Brook University, and the language at SUNY Korea is English.

SUNY Korea (<http://www.sunykorea.ac.kr/>) is located in the new master-planned city of Songdo, Korea, hosting both global organizations and multinational corporations. Incheon international airport is just 25 minutes away and Seoul with its fascinating blend of Asian cultures is less than 1 hour away.

More information about the positions and application instructions can be found at <https://sunyk.cs.stonybrook.edu/about-us/career/>.

Review of applications will start immediately and will continue until the positions are filled.

We value diversity and seek candidates who can contribute to a welcoming climate for all students. We strongly

encourage applications from women and underrepresented groups.

Temple University

Department of Computer and Information Sciences

Professor of Instruction Position

The Department of Computer and Information Sciences (CIS) at Temple University invites applications for multiple Professor of Instruction positions. We are interested in hiring faculty that will help us further extend the quality, depth, and breadth of our curriculum and contribute their leadership in advancing our educational mission. Applicants should have a commitment to promoting student engagement and implementing evidence-based instructional strategies that have been shown to be effective for teaching and mentoring diverse groups of students. An ideal applicant will have a PhD degree in computer science (or a related discipline), substantial industry experience, or prior experience teaching computer science courses. We are particularly interested in candidates with expertise in security, data science, web development, and software engineering that can enhance our current undergraduate and graduate course offerings.

This position is a non-tenure-track 9-month academic appointment with a renewable multi-year contract. Temple University offers competitive salaries and excellent benefits. Opportunities for summer salary include summer teaching and grant-funded research.

This position is a non-tenure-track 9-month academic appointment with a renewable multi-year contract. Temple University offers competitive salaries and excellent benefits. Opportunities for summer salary include summer teaching and grant-funded research. Temple University is a Carnegie R1 (highest research activity) institution that serves more than 35,000 students and is ranked #46 among top public universities by the U.S. News & World Report. Located in the heart of Philadelphia, a city known for arts, culture, history, and affordable living, Temple University is in close proximity to many outstanding research centers and industry partners in information technology, healthcare, biotechnology, and finance. Housed within the College of Science and Technology, the Department of Computer and Information Sciences serves over 1,100 undergraduate majors and graduate students, with academic programs that prepare students to solve challenging, interdisciplinary problems that impact society. The department is committed to fostering a diverse, equitable, and inclusive departmental community, and is the headquarters of a national alliance for broadening participation of students and faculty from groups that have been historically excluded in computing.

Applications should be submitted electronically at: <https://academicjobsonline.org/ajo/jobs/21079>

Submitted materials should include a curriculum vitae, teaching statement, and a statement describing contributions to academic research or industry experience.

Review of candidates will begin immediately and continue until the positions are filled. Applicants are encouraged to apply by March 1, 2022 for priority consideration.

For more information, send email to teaching-cis-search@temple.edu with "Professor of Instruction Position" as the subject.

Temple University is an affirmative action/equal opportunity employer with a strong commitment to the quality of faculty life.

TU Wien

Assistant Professor (Tenure Track) of Complexity Science for Societal Good

The Faculty of Informatics at TU Wien invites applications for a full time Assistant Professor position (tenure track). The position is directed to Complexity Science for Societal Good and is affiliated with the Institute of Information Systems Engineering, in close collaboration with the Complexity Science Hub Vienna. The estimated starting date is September 1, 2022.

Scope: While companies are often good at using customer data to increase their commercial success, governments and public administrations hardly ever use the data that they collect to its full potential for providing benefits to society. This full potential arises through understanding data not in isolation but taking the complexity of interdependencies and interconnections into account. Such benefits could include using insights

obtained from the data to improve public services, or to better understand the impacts on society of changes in legislation or of external factors such as natural disasters. There is a large potential in using open data for this purpose, but the use of non-public data generally opens up more possibilities – commercial data is now also starting to be used for societal insights. As the data is often analysed for purposes for which it was not originally collected, it is necessary to compensate for potential biases in the results. The candidate will work at the interface of data science and complexity science together with governments and public administrations, and should therefore also pay attention to presenting results in a suitable way for use by decision makers. The Digital Humanism Initiative on ensuring that technology development remains centred on human interests should play a central role in this work (<https://dighum.ec.tuwien.ac.at/>).

Candidates should have a background and experience in building data science system prototypes that target a well-defined application area and analyse real-world data. The following non-exhaustive list highlights some potential research topics of a successful candidate:

- Data models for big data management
- Workflows for big data analysis
- Methods of Artificial Intelligence
- Network science
- Social network analysis
- Big data analytics
- Data mining

- Statistical models
- Statistical data analysis
- Data fusion
- Experiment design and evaluation
- Visualization
- Privacy-aware analytics

Furthermore, a successful candidate should have an interest in:

- Human-in-the-loop
- Explainability and interpretability
- Algorithm and data biases

The candidate should have experience in working with industry or public administrations, relevant postdoctoral experience, and a compelling research vision. We are particularly interested in candidates working in areas that will complement our existing expertise and lead to fruitful collaborations with other members of TU Wien Informatics, TU Wien in general, and the Complexity Science Hub Vienna.

Detailed information is available at <https://informatics.tuwien.ac.at/news/2135>.

Applications should be directed to <https://jobs.tuwien.ac.at/Job/171705>

Application deadline: March 31, 2022

Union College

Visiting Assistant Professor

Union College invites applications for a three-year faculty position in Computer Science at the rank of Visiting Assistant

Professor, beginning September 2022. The Department offers a B.S. in computer science, supports an ABET-accredited B.S. in computer engineering with the Electrical, Computer, and Biomedical Engineering Department, and a digital art program with the Visual Arts department. We participate in data analytics and digital media minors and the computational track of the neuroscience major. We offer introductory courses that engage students with a variety of interests. Current faculty research areas include robotics, HCI, NLP, databases, computational complexity, and software design.

At Union, institutional expectations and support are balanced between teaching and research; the ideal candidate will be enthusiastic about teaching, supervising undergraduate research, and sustaining an independent research program. Furthermore, Union recognizes the rich possibilities of interdisciplinary studies by offering opportunities for faculty and students to engage with multiple disciplines - and each other - in collaborative classroom settings, innovative majors, and unique research initiatives. We are therefore particularly interested in candidates who can teach not only core computer science classes but also interdisciplinary courses that connect computing to the arts, humanities, and/or social sciences. The position typically involves teaching two courses in each of our three ten-week trimesters. Preference will be given to applicants who have completed a Ph.D. in computer science or a related area; applicants close to finishing a Ph.D. will be considered.

We welcome applications from members of groups traditionally underrepresented in the field. Applicants able to provide evidence of teaching or mentoring a diverse student body are preferred. See cs.union.edu/jobs for instructions about how to submit the relevant materials.

We will begin reviewing applications starting March 1, 2022, and will continue until the position is filled.

Union College is a highly selective liberal arts and engineering college in New York State's Capital Region, three hours from NYC and Boston. It emphasizes close collaborations between faculty and students and has a campus-wide initiative promoting interdisciplinary computing activities. Further information can be found at: cs.union.edu/jobs.

University of Akron

Assistant Professor (Tenure Track), Computer Science (Cybersecurity Specialty)

This is a 9-month, tenure-track position with a primary appointment in the Computer Information Systems program area in the Department of Computer Science with shared duties with the Computer Science program, including working with graduate students beginning in the Fall semester of 2022.

The primary responsibilities of this position are classroom teaching and lab instruction to a diverse student body with the potential for hybrid and online teaching. Focus teaching areas are in cybersecurity, and digital forensics. Other responsibilities

Professional Opportunities

include establishing productive and ongoing related research program, engaging in professional development and scholarly activities, and providing service to the program area, department, college, and university. The maximum teaching load is 24 credits per academic year, excluding summers. Some portion of the annual load may be allocated to service. The candidate is expected to teach undergraduate core computer information systems as well as undergraduate and graduate courses in computer science courses.

Required Qualifications:

A PhD (or ABD) in Computer Information Systems, Computer Science, or a related field from an accredited institution at the start of employment.

Please note this is an abbreviated position description. Please visit the following link for application procedures and details: <https://www.uakron.edu/hr/job-openings/openings.dot> - Job ID # 13395

The University of Akron, as an equal education and employment institution, is committed to achieving a diverse and inclusive workforce. The University also strives to provide an environment free from the negative impacts of gender-based discrimination and harassment as prohibited by Title IX of the Education Amendments Act of 1972.

University of Arizona

PostDoc in Computer Security Education

We are seeking a postdoctoral scholar to lead the NSF/SaTC/EDU project "LIGERLabs: Educational Modules for (Anti-)

Reverse Engineering". The goal of this project is to build lectures, tools, and exercises to improve students' abilities in Reverse Engineering and Anti-Reverse Engineering. The successful candidate will direct graduate and undergraduate students to build open-source pedagogical artifacts and generators and auto-

graders of reverse engineering exercises. They will also conduct studies of students of different backgrounds in order to build up a schedule of exercises of appropriate complexity. The work will build on previous tools built by our group: *Tigress*, *RevEngE*, and *SandMark*.

Please apply [here](#).



Lecturer - Data Science School of Information

The School of Information at the University of California, Berkeley seeks applications for a pool of part-time, non-tenure track lecturers to teach courses in the Master's in Information and Data Science (MIDS) program.

For more information about the position, including required qualifications and application materials go to:

<https://apptrkr.com/2845836>

The University of California is an Equal Opportunity/Affirmative Action Employer.

The School of Information is interested in candidates who will contribute to diversity and equal opportunity in higher education through their teaching or other related areas.

UC Berkeley has an excellent benefits package as well as a number of policies and programs to support employees as they balance work and family, if applicable.

Please direct questions to: pmarchetti@berkeley.edu



Lecturer - Information Management School of Information

The School of Information at the University of California, Berkeley seeks applications for a pool of part-time, non-tenure track lecturers to teach courses in the Master's in Information Management (MIMS) program.

For more information about the position, including required qualifications and application materials go to:

<https://apptrkr.com/2845853>

The University of California is an Equal Opportunity/Affirmative Action Employer.

The School of Information is interested in candidates who will contribute to diversity and equal opportunity in higher education through their teaching or other related areas.

UC Berkeley has an excellent benefits package as well as a number of policies and programs to support employees as they balance work and family, if applicable.

Please direct questions to: pmarchetti@berkeley.edu

UCLA Commuter & Parking Data Analyst

Under the general direction of the Commuter & Parking (C&P) Programs Data Scientist, the C&P Data Analyst serves as the primary business data analyst, providing analytical, technical, planning and operational support of the day-to-day operations and short and long-range efforts of C&P Services and the larger Events & Transportation (E&T) division.

Main functional responsibilities include: Independently manage the technical processes associated with the business operations. Use proprietary software programs to provide day-to-day data and process management support, including publishing data analytics for oversight of commuter programs and services.

To apply, visit: **<https://apptrkr.com/2855012>**

University of California, Riverside

Associate/Full Professor in Public Policy and Director of the Center for Geospatial Sciences

The UCR School of Public Policy invites applications for Director of *the Center for Geospatial Sciences* (CGS) and tenured Professor (Associate or Full) in the area of Geographic Information Science (GIScience) and Public Policy. We are seeking an accomplished scholar to join the SPP faculty and provide intellectual and administrative leadership to CGS.

To apply and for more details, see <https://aprecruit.ucr.edu/JPF01508>.

The University of California is an Equal Opportunity/Affirmative Action/Disability/Veterans Employer. UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification.

University of Chicago

Instructional Professor (open rank) in Data Science

The University of Chicago invites applications from Data Science educators for the position of Instructional Professor (open rank). The selected candidate will be appointed as Assistant Instructional Professor, Associate Instructional Professor, or Instructional Professor, depending on qualifications. The



Assistant Professor (Ladder-rank): Broad Area search in Data Science (HDSI)

Application Window

Open date: December 20th, 2021

Last review date: Friday, Feb 4, 2022 at 11:59pm (Pacific Time)

Applications received after this date will be reviewed by the search committee if the position has not yet been filled.

Final date: Tuesday, Dec 20, 2022 at 11:59pm (Pacific Time)

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Position description

The Halicioglu Data Science Institute (HDSI, <https://datascience.ucsd.edu>) at the University of California, San Diego invites applications for a tenure-track faculty position at the Assistant Professor level. HDSI is a premier Institution with a unique presence at the UC San Diego campus. With almost all aspects of daily life now being governed by the data, HDSI's research efforts are ever more important.

HDSI is seeking exceptional candidates within all areas of Data Science: from Data infrastructure, Machine Learning and Statistics to Biomedical, Societal and Data Science for Scientific Discovery. HDSI is welcoming stellar research with emphasis on both application driven as well as methodological advancements of Data Science.

This position represents an Excellence Search which aims to foster a diverse and inclusive community of scholars. In addition to outstanding research that enhance HDSI's academic and research missions, successful candidate(s) will demonstrate distinctive qualifications, accomplishments and commitment to helping shape and expand University's diversity initiatives (<https://diversity.ucsd.edu>).

This position requires teaching of university students and a PhD or Advancement to Candidacy is required at time of application

We understand that the COVID-19 pandemic may have had a substantial impact on academic productivity. In our academic hiring processes, we will be keeping this in mind as we consider achievement relative to opportunity. We encourage you to reflect on constraints on opportunity in your field that were caused by the events of the pandemic and where applicable, to discuss your achievements in this light.

Qualifications Basic qualifications (required at time of application)

PhD or Advancement to Candidacy at time of application, in a Data Science related field including but not limited to Applied Mathematics, Biostatistics, Cognitive Science, Computer Science, Economics, Electrical Engineering, Machine Learning, Mathematics, Statistics.

Application Requirements Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter (Optional)
- Statement of Research
- Statement of Teaching
- Statement of Contributions to Diversity - Applicants should summarize their past or potential contributions to diversity. See our <http://facultydiversity.ucsd.edu/recruitment/contributions-to-diversity.html> site for more information.
- Misc / Additional (Optional)
- COVID-19 Impact Statement - We understand that the COVID-19 pandemic may have had a substantial impact on academic productivity. In our academic hiring processes, we will be keeping this in mind as we consider achievement relative to opportunity. We encourage you to reflect on constraints on opportunity in your field that were caused by the events of the pandemic and where applicable, to discuss your achievements in this light.(Optional)

Reference requirements

- 3-5 letters of reference required

Apply link: <https://apptrk.com/2841682>

Help contact: <mailto:bhewitt@ucsd.edu>

Campus Information

As a condition of employment, you will be required to comply with the University of California https://urldefense.proofpoint.com/v2?url=https://3A_policy.ucop.edu_doc_5000695_SARS-2DCoV-2D2-5FCovid-2D19&d=DwMFAg&c=-350iAKTchMrZongvJPOeA&r=1p1nm8oXgrOSQJxyYfrXMGHr6J-ypOFoP1GKghxjL0&m=qh18BcUTOwmd2jWDIXuc2XjxPABC4ZVnIN69zNDdFR0&s=-iX3pS2swVYTSmC79uUmBjYUZiZa6ed0uN24HWzANvzM&e=- All Covered Individuals under the policy must provide proof of Full Vaccination or, if applicable, submit a request for Exception (based on Medical Exemption, Disability, and/or Religious Objection) or Deferral (based on pregnancy) no later than the applicable deadline. For new University of California employees, the applicable deadline is eight weeks after their first date of employment.

The University of California prohibits <https://smokefree.ucsd.edu/> use at all University controlled properties.

The UC San Diego Annual Security & Fire Safety Report is available online at: <https://www.police.ucsd.edu/docs/annualclery.pdf>. This report provides crime and fire statistics, as well as institutional policy statement & procedures. Contact the UC San Diego Police Department at (858) 534-4361 if you want to obtain paper copies of this report.

Job location San Diego

Applications must be submitted electronically through AP-Online Recruit website:

<https://apptrk.com/2841682>

For applicants with interest in spousal/partner employment, please see the UC San Diego Partner Opportunities Program website.

UC San Diego is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to excellence through diversity.

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or status as a protected veteran.

appointment will be for a term of up to five years, renewable. This is a career-track position with potential progression, competitive salary, and benefits. This position is expected to begin on September 1, 2022.

The terms and conditions of employment for this position are covered by a collective bargaining agreement between the Service Employees International Union (SEIU) and the University.

The University of Chicago is implementing an ambitious plan for research and education in Data Science including new academic programs at the undergraduate and graduate levels and new cross-disciplinary research programs. The Data Science Institute (datascience.uchicago.edu) is a collaboration among the Department of Computer Science (cs.uchicago.edu), the Department of Statistics (stat.uchicago.edu), and other units on campus.

The Departments of Computer Science and Statistics and the Data Science Institute are dedicated to building a culturally diverse faculty and staff who are committed to creating and nurturing an inclusive community that welcomes, respects, and supports everyone, including those from underrepresented and marginalized groups. They are home to a diverse community of educators and researchers focused on advancing the foundations of statistics and computing, and driving their most advanced applications. The larger data science community at the University of Chicago includes the Toyota Technological Institute

at Chicago (TTIC), the Polsky Center for Entrepreneurship and Innovation, and Argonne National Laboratory.

We particularly seek individuals who can help us fulfill our educational objectives in data science. General position responsibilities include teaching (average teaching load is two courses per quarter in the fall, winter and spring quarters), potential for non-classroom instructional or service duties, and professional development. Appointments will be made in either department, jointly between Statistics and Computer Science, or jointly with another department in the University.

By the time of hire candidates must have completed all requirements for the PhD in statistics, computer science, or some field of mathematics or science where data science concepts play an important role. Prior college teaching experience, either as an instructor of record or as a teaching assistant, is required. Candidates who are qualified to teach undergraduate courses in data science or machine learning are preferred.

Applications must be submitted online through the University of Chicago's Academic Jobs website: <http://apply.interfolio.com/100838>. Review of applications will begin on February 5th, 2022 and will continue until all positions are filled.

The following materials are required:

- cover letter;
- curriculum vitae including teaching experience and publications;

- description of teaching philosophy and experience; ability to interact with a diverse group of students is valued. Must include a list of courses that the candidate is qualified to teach;

applicants are required to request at least three confidential letters of recommendation via Interfolio

Equal Employment Opportunity Statement We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange. The University's Statements on Diversity are at <https://provost.uchicago.edu/statements-diversity>.

The University of Chicago is an Affirmative Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination.

Job seekers in need of a reasonable accommodation to complete the application process should call 773-702-1032 or email equalopportunity@uchicago.edu with their request.

University of Colorado, Colorado Springs

Instructor of Cybersecurity

The Department of Computer Science in the College of Engineering and Applied Science at the University of Colorado Colorado Springs invites applications for a full-time Instructor of cybersecurity.

For more information and to apply, please visit: <https://cu.taleo.net/careersection/jobdetail.ftl?job=22951&lang=en>

University of Delaware

Postdoctoral Scientist/Research Software Engineer

The *Computational & Research Programming Lab (CRPL)* at UDEL research group led by Associate Professor *Prof. Sunita Chandrasekaran* is hiring a full-time fully-funded (2 years) postdoctoral researcher/RSE (Research Software Engineer) to work on the *DOE ECP SOLLVE* project.

Opportunities

- Contribute towards the development of OpenMP/OpenACC
- Work closely with domain scientists and vendors & the LLVM community
- Target supercomputers including **Summit, Frontier, Perlmutter**
- Full job details <https://tinyurl.com/3d7jt2hm>

Contact Prof. Chandrasekaran with your CV, and a motivation statement of 200 words max.

University of Maine

ECE Tenure Track Faculty Position (Cyber Security and CPS Security)

Applications are invited for a tenure track Assistant Professor position at the University of Maine in the ECE Department with a 25% joint appointment in the Advanced Structures and Composites Center (ASCC). This position is one of four cluster hires in the area of Green Engineering and Materials (GEM). The candidate must have a PhD in Electrical and/or Computer Engineering or a closely related field.

Candidates are sought with expertise in security of cyber physical systems (CPS) including additive and digital manufacturing; computer/wireless network security; embedded systems; Internet of Things (IoT) security; hardware security; and machine learning based data-driven security. Successful candidate is expected to collaborate with the ASCC in terms of applying Cyber Security principles to digital manufacturing, green engineering and materials, high performance computing (HPC), robotic manufacturing systems, secure handling of real-time data, and wireless sensor networks (WSNs). Candidates should commit to teaching excellence and be able to teach courses such as Fundamentals of Cyber Security at the undergraduate level and CNS/CPS Security at the graduate level. This position is 50% teaching / 50% research and requires active engagement in service to the profession, UMaine, and to the State.

Interested candidates should submit a complete application package that

includes a cover letter, CV, statement of research and teaching interests (max. of 5 pages), pdf copies of three most significant publications, and names and contact information for five professional references in response to the full advertisement <https://umaine.hiretouch.com/job-details?jobid=73202>. General enquiries can be emailed to the Search Committee Chair yifeng.zhu@maine.edu.

Review of applications will begin March 7, 2022 and the start date is August 29, 2022.

The University of Maine, an EO/AA employer, seeks to employ outstanding people who contribute to the rich cultural diversity expected in a university setting. All qualified individuals are encouraged to apply.

University of Maryland Baltimore County (UMBC)

Department of Computer Science and Electrical Engineering

Computer Science Professor

The Department of Computer Science and Electrical Engineering (CSEE) at the University of Maryland, Baltimore County (UMBC) invites applications for an open rank, tenured/tenure-track position in Computer Science to begin in the Fall of 2022. Applicants should have or be completing a Ph.D. in a relevant discipline, have demonstrated the ability to pursue a funded research program, have a strong commitment to undergraduate and graduate teaching, and have a strong commitment to diversity and inclusive excellence. Candidates will be expected to build and lead a team of student

researchers, obtain external research support, and teach both graduate and undergraduate courses. We welcome applications that can build and expand upon the areas of specialization in computer science (see <https://www.csee.umbc.edu/research/research-areas/>).

We are committed to inclusive excellence and innovation and welcome applications from women, minorities, veterans, and individuals with disabilities. UMBC is an affirmative action/equal opportunity employer.

The CSEE department is research-oriented and multi-disciplinary with programs in Computer Science, Computer Engineering, Electrical Engineering, Data Science, and Cybersecurity. The College of Engineering and Information Technology at UMBC crosses the boundaries of engineering, computing, and information disciplines to develop research and educational programs that engage faculty, students, and staff from all of the disciplines. UMBC is a research-intensive university that is leading the world in inclusive excellence in research and teaching. We are redefining how to teach, and we are one of the most innovative universities in the nation, according to US News.

Applicants should submit a cover letter, a statement of research experience and interests, a statement of teaching experience and interests, a statement of commitment to diversity and inclusive excellence, a CV, and three letters of recommendation at <http://apply.interfolio.com/99626>

For full consideration, please submit application materials by January 15th, 2022. Applications will be accepted until the position is filled. Please send questions to jobsTT@csee.umbc.edu and see <http://csee.umbc.edu/jobs> for more information.

University of Maryland, College Park

Open Rank Lecturer Archives and Digital Curation

The College of Information Studies at the University of Maryland, College Park (Maryland's iSchool), invites applications for a full-time, professional track lecturer who is highly competent, energetic, collegial, and flexible to join our exciting environment. The Lecturer will teach in one or more of the areas listed below, with a course load of three classes per semester (fall and spring), and will actively participate in the life of the college through building research capacity and experiential learning opportunities in the Center for Archival Futures (CAFe).

The successful candidate will teach in our core courses and electives in archives and digital curation. Additional courses that the successful candidate can develop include courses that cover topics such as:

- Born-digital, web, and social media archiving;
- The intersection of archives, social justice, and public humanities;
- Crowdsourcing and community archives;
- Digital curation across the LAM sector and beyond;

- Data management;
- Knowledge representation and knowledge organization;
- Machine learning and AI related to cultural heritage;
- Inclusive, equitable, and enduring information ecosystems.

The expected start date for this position is Fall 2022. Best consideration date: March 30, 2022.

For more information about the position, please visit: <https://ejobs.umd.edu/postings/92154>

University of Maryland, College Park

Faculty Positions in Quantum Science and Information

The University of Maryland, College Park, College of Mathematical and Natural Sciences invites applications for multiple faculty positions at all levels in quantum science and information. The position(s) would reside in the Department of Physics, the Department of Computer Science, the Department of Mathematics, or the Department of Chemistry and Biochemistry depending on the research and qualifications of the applicant. All areas of quantum science and information will be considered, including quantum computation, quantum simulation, quantum information processing, quantum sensing, and quantum networking. Research can be experimental, theoretical or computational in nature. Successful applicants will be expected to maintain active research

programs and teach undergraduate and graduate courses in the College of Mathematical and Natural Sciences.

The University of Maryland, College Park, College of Mathematical and Natural Sciences is home to major research efforts in quantum science and information through the Joint Quantum Institute (JQI, <http://jqj.umd.edu/>) and the Joint Center for Quantum Information and Computer Science (QuICS, <http://quics.umd.edu/>), and in collaboration with the Clark School of Engineering through the Quantum Technology Center (QTC, <http://qtc.umd.edu/>).

Minimum requirements: A Ph.D. in physics, computer science, mathematics, chemistry or a quantum-related discipline and independent research experience. Good teaching is a high priority of the College, and a potential for teaching excellence is necessary. The University of Maryland and the College of Mathematical and Natural Sciences are committed to increasing the diversity of the campus community. Candidates who have experience working with a diverse range of faculty, staff, and students, and who can contribute to the climate of inclusivity are encouraged to identify their experience in these areas.

Applicants should submit the following items:

- A cover letter
- A curriculum vitae, including a publication list
- A statement of research, not exceeding 3 pages

- A statement of teaching, not exceeding 3 pages
- Applicants should arrange for at least 3 references who will provide letters of recommendation
- A sample of three significant publications (optional)

Applications must be submitted here: <https://ejobs.umd.edu/postings/91259>

The University of Maryland, College Park, an equal opportunity/affirmative action employer, complies with all applicable federal and state laws and regulations regarding nondiscrimination and affirmative action; all qualified applicants will receive consideration for employment. UMD is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, sex, pregnancy, gender identity or expression, sexual orientation, marital status, age, national origin, political affiliation, physical or mental disability, religion, protected veteran status, genetic information, personal appearance, or any other legally protected status in all aspects of employment.

University of New Orleans

Assistant Professor Positions in Computer Science

The Department of Computer Science at the University of New Orleans invites applications for two tenure-track Assistant Professor positions starting in Fall 2022. We are primarily looking for applicants whose expertise would extend and complement existing

strengths within the department. Candidates with expertise in gaming, AR/VR, machine learning and AI, and big data are especially encouraged to apply. Exceptional candidates in other related areas will also be considered.

The successful candidate will be expected to offer a broad range of specialized courses in their area of expertise, supervise graduate students, develop a nationally competitive research profile, and secure external research funding.

A Ph.D. in computer science or a closely related field is required for appointment. Successful applicants must possess a record of research excellence and demonstrate strong teaching commitments to graduate and undergraduate courses.

To formally apply for these positions, please submit a resume, diversity statement, and teaching and research statements to UNO's career site.

https://ulsuno.wd1.myworkdayjobs.com/en-US/UniversityOfNewOrleans/job/New-Orleans-La/Assistant-Professor_R-000187

The University of New Orleans is an AA/ADA/EEO employer who recruits, selects, employs and promotes without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, political affiliation, age, disability, veteran status, or genetic information in its admission and recruitment of students, educational programs, and activities, or employment policies.

University of North Carolina at Chapel Hill

Teaching Assistant/Associate Professor

The Department of Computer Science at the University of North Carolina at Chapel Hill invites applications for the position of Teaching Assistant or Associate Professor. We seek applications from individuals with exceptional promise for, or a proven record of, teaching introductory programming in a diverse undergraduate university environment. This position has the responsibility to teach courses that serve as on-ramps for a Computer Science major, such as introductory scientific programming, rudiments of data science for non-computer science students in the natural sciences, CS1, CS2, and object-oriented programming using well-known design patterns. This position entails updating, revising, and developing curriculum, and employing innovative pedagogical methods and instructional technologies that will be effective in teaching large classes and encouraging a diverse population of students to participate in these courses. The position will include training, supervising, and evaluating student teaching assistants.

For more information and to apply: <https://unc.peopleadmin.com/postings/222084>

University of North Carolina Wilmington

Assistant Professor Positions for Intelligent Systems Engineering & Cyber Security

The Department of Computer Science at the University of North Carolina Wilmington invites applicants to apply for two tenure-track Assistant Professor positions with a start date of August 2022. For the first position, we are looking for applicants who have an emphasis in cybersecurity, network security, and security. For the second position, we are looking for an emphasis in Intelligent Systems Engineering; additional consideration will be given to research focused on demonstrated research with an emphasis in Autonomous Systems, Perception and Smart Sensor Systems, Embedded and Edge AI, IoT, Cyber-Physical Systems (CPS) using Machine Learning or Artificial Intelligence. A Ph.D. in Computer Science or closely related area are required for these positions.

Review of applications will begin March 2022 and will continue until the positions have been filled. Priority consideration will be given to applications received by the Priority Date; however, applications will be accepted until the position is filled.

Applications must be submitted through the online application system to be considered. Position details and full applicant instructions can be found <https://jobs.uncw.edu/postings/23051> and <https://jobs.uncw.edu/postings/23052>. Each applicant is required to submit a cover letter, CV,

three professional references, unofficial graduate transcripts, statement of teaching philosophy, and summary of research plans.

Should you have any questions for the Cybersecurity position, please reach out to Dr. Clayton Ferner (cferner@uncw.edu), and if you have any questions for the Intelligent Systems Engineering position, please reach out to Dr. Sridhar Narayan (narayans@uncw.edu).

UNCW is an equal employment / affirmative action employer.

University of Oklahoma

Open-Rank Tenure-Track Professor of Computer Science in Computational Biology

The School of Computer Science at the University of Oklahoma (OU) seeks applications for a tenured/tenure-track faculty position in the area of Computational Biology, open at any rank (assistant, associate, or full professor). We seek candidates whose research, teaching, and service have prepared them to be integral contributors to the advancement of our inclusive and diverse communities. The candidate who fills this position should look to support OU's strategic research verticals on The Future of Health and Society and Community Transformation; be prepared to engage in multi-college, multi-campus research; be capable of dealing with large, complex data from areas such as healthcare and medicine including furthering collaborations between the School of Computer Science and the OU Harold Hamm

Professional Opportunities



Assistant Professor (Robotics)

Primary Purpose and Essential Functions:

The School of Engineering and Computer Science at the University of the Pacific invites applications for a tenure-track position in robotics (embedded systems, machine learning, and/or mechatronics) at the rank of Assistant Professor to start in Fall 2022. The position will help expand and re-envision existing robotic/mechatronic/automation work into a multidisciplinary school-wide emphasis appropriate for multiple engineering disciplines. Successful candidates will demonstrate the ability to teach multidisciplinary courses.

Applicants with interdisciplinary expertise and a commitment to addressing social disparities through inclusive teaching and community-embedded and -informed research and praxis are welcomed. Salary is competitive with excellent fringe benefits. This position is housed in department related to the doctorate area.

Minimum Qualifications:

- Applicants must have a doctorate degree in Computer Engineering, Computer Science, Electrical Engineering, Mechanical Engineering, or closely related discipline.
- The primary qualification for this position is a strong interest and demonstrable potential for undergraduate education in the area of robotics, automation, machine learning, and/or mechatronics. Excellent oral and written communication skills are essential. Applicants interested in multidisciplinary fields of study are encouraged to apply.

Preferred Qualifications:

- Candidates should also be prepared to teach in our master's graduate programs and to sustain a program of academic research. Candidates with experience in Engineering Education and innovative pedagogy are encouraged to apply.

Physical Requirements:

The physical demands described here are representative but not definitive of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Requires extended periods of sitting and repetitive hand/wrist motion while using computer keyboard and phone. Occasional standing, walking, climbing stairs, bending, stooping, and reaching. Occasional lifting up to 25 pounds.

Work Environment/Work Week/Travel:

Monday through Friday, hours to be determined by the department upon hire.

Special Instructions:

Candidates should upload the following documents:

- Cover letter outlining qualifications
- Curriculum Vitae
- Teaching Philosophy that includes a statement defining teaching interests (2 pages maximum)
- Research Program Plan that includes a statement outlining plans for a research program that could involve undergraduate and graduate students (2 pages maximum)
- A statement describing experience and commitment to teaching diverse student populations (2 pages maximum)
- Additionally, candidates must provide three letters of reference.

For priority consideration, please apply on or before February 1, 2022.

To apply, visit <https://apptrk.com/2787882>

University of the Pacific is an affirmative action and equal opportunity employer dedicated to workforce diversity. In compliance with applicable law and its own policy, Pacific is committed to recruiting and retaining a diverse faculty and staff and does not discriminate in its hiring of faculty and staff, or in the provision of its employment benefits to its faculty and staff on the basis of race, color, religion, national origin, ancestry, age, genetic information, sex/gender, marital status, military and veteran status, sexual orientation, medical condition, pregnancy, gender identity, gender expression, or mental or physical disability.

Diabetes Center and the Oklahoma Medical Research Foundation.

Candidates must hold a Ph.D. in Computer Science or a related field and be able to effectively conduct and lead research, form research collaborations, teach computer science courses at all levels, and advise M.S. and Ph.D. students. We are excited to consider appointments at all ranks as appropriate to the qualifications of the applicant. More senior positions require concomitant levels of experience beyond the doctorate.

Details and submissions are online via Interfolio at <https://apply.interfolio.com/99319>.

University of Tennessee at Martin

Assistant Professor and Chair of Computer Science

The University of Tennessee at Martin, College of Engineering and Natural Sciences, Department of Computer Science is seeking applications for a 12-month, tenure-track position of Department Chair of Computer Science.

A full list of qualifications and to apply go to:

https://www.utm.edu/departments/personnel/fac_emp.php.

A letter of application with a statement of teaching, research goals and philosophy of administration and leadership statement, a current CV, graduate transcripts, and contact

information for at least three references must be attached. Review of applications will begin in March 2022 and will continue until the position is filled. Incomplete submissions will not be considered.

The University of Tennessee is an EEO/AA/Title IX/ Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. All qualified applicants will receive equal consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, or covered veteran status.

University of Toronto

Chair and Professor - Computer Science

Applications are invited for the position of Chair of the Department of Computer Science in the Faculty of Arts & Science at the University of Toronto. The successful candidate must be eligible for a tenure stream academic appointment at the rank of Professor and will also be the tri-campus Graduate Chair of the Department of Computer Science. The appointment as Chair will be for a 5-year term, and will commence on July 1, 2022, or shortly thereafter.

The Department is home to two Turing Award winners and to members of acclaimed computing societies,



Postdoctoral Fellow in AI-enabled Cyber Security

Location: San Antonio, TX
Regular/Temporary: Regular
Job ID: 7341
Full/Part Time: Full Time

Org Marketing Statement

The University of Texas at San Antonio is a Hispanic Serving University specializing in cyber, health, fundamental futures, and social-economic development. With more than 34,000 students, it is the largest university in the San Antonio metropolitan region. UTSA advances knowledge through research and discovery, teaching and learning, community engagement and public service. The university embraces multicultural traditions and serves as a center for intellectual and creative resources as well as a catalyst for socioeconomic development and the commercialization of intellectual property—for Texas, the nation and the world.

UTSA is situated in a global city that has been a crossroads of peoples and cultures for centuries, values diversity and inclusion in all aspects of university life. As an institution expressly founded to advance the education of Mexican Americans and other underserved communities, our university is committed to ending generations of discrimination and inequity. UTSA, a premier public research university, fosters academic excellence through a community of dialogue, discovery and innovation that embraces the uniqueness of each voice.

Posting End Date

Applications will be accepted through 11:59 PM CDT on 12/20/2021. At the discretion of the hiring department, this position posting may close once a sufficient number of qualified applications have been received.

This position is grant funded and is contingent upon funding availability. This position may be shortened or extended based on funding and/or availability of work.

Salary Range: \$50,000 annualized, commensurate with education, experience and qualifications.

Hours per Week

Exempt Position: 40 hours per week.

Required: Resume and Cover Letter

Essential Functions

Function: To assist in the planning and direction of research and to perform advanced scientific duties requiring special qualifications. Latitude for independent action and decision expected.

Scope: Responsible for assisting with the direction of a two-year funded research "Human-in-the-Loop XAI-enabled Vulnerability Detection, Investigation, and Mitigation" with Dr. Raymond Choo (The University of Texas at San Antonio) and Dr. Tien Nguyen (The University of Texas at Dallas), which includes the evaluation, design, implementation, and performance evaluation of new or improved techniques and procedures, and other related tasks.

Typical:

- Develops and designs explainable artificial intelligence (XAI) techniques / models to facilitate human-in-the-loop vulnerability detection, investigation, and mitigation.
- Undertakes security and performance evaluations, and other research related tasks.
- Assist in the preparation of grant proposals, if required.
- Oversees the supervision and training of student employees, interns, and volunteers, and leads research teams in advanced multi-year research activities.
- Plans, schedules, and coordinates detailed phases of research projects including devising new approaches to problems encountered, and prepares progress reports.
- Assist key members of research staff in solving specific problems encountered in project.
- Assume responsibility for acceptance or rejection of results achieved.
- Prepare manuscripts for publication.
- Perform additional duties as assigned.

Periodic:

- Provide training and supervision of undergraduate students.
- Presents work as scientific meetings.
- Attend research related meetings and scientific conferences.

Required Qualifications

Ph.D. in computer science / engineering (AI, cyber security).

U.S. Citizen or Permanent Resident admitted to the U.S. for permanent residence.

The applicant should ideally have the following skills: AI and security (vulnerability detection in systems and/or source code).

Preferred Qualifications

System, network, or device forensics.

Working Conditions

This position is located:

On Campus: Primary work location will be on campus.

Usual laboratory and office conditions.

Additional Information

This position is grant funded and is contingent upon funding availability. This position may be shortened or extended based on funding and/or availability of work.

- UTSA is a tobacco free campus.
- This is a security sensitive position. Employment is contingent upon a successful background check.
- Applicants selected must be able to show proof of eligibility to work in the United States by time of hire.

EO/AA Statement

As an equal employment opportunity and affirmative action employer, it is the policy of The University of Texas at San Antonio to promote and ensure equal employment opportunity for all individuals regardless of race, color, religion, sex, gender identity, sexual orientation, national origin, age, disability or genetic information, and veteran status. The University is committed to the Affirmative Action Program in compliance with all government requirements to ensure nondiscrimination. Women, minorities, people with disabilities and veterans are encouraged to apply. UTSA campuses are accessible to persons with disabilities.

To view the full job posting and apply for this position, go to <https://apptkr.com/2796602>

including five ACM fellows and seven Fellows of the Royal Society of Canada. Our faculty members are recognized internationally and renowned for their commitment to research and teaching. The Department is home to over 154 faculty members, 2200 undergraduate and over 500 graduate students. The Department is recognized globally for its strong academic programs, innovative teaching, and research that continues to challenge the boundaries of computer science innovation.

The successful candidate will have an established international scholarly reputation in the field of Computer Science. In addition, they will possess demonstrated accomplishments in an administrative role, with superior analytical, organizational, budgetary, and strategic planning experience. Applicants must have a Ph.D. in Computer Science, or a related field, with a demonstrated exceptional record of excellence in research and teaching. The successful candidate will have a demonstrated commitment to promoting excellence in research, teaching, public engagement and innovative partnerships. They will also bring experience relevant to expanding the Department's research capacity, international exposure, public profile, pedagogical innovations, and fundraising capabilities.

They will also have a demonstrated commitment to enhancing the graduate and undergraduate student experience and promoting mental health and wellness for students, staff and faculty. We welcome exceptional candidates

who transcend traditional backgrounds or discipline boundaries, and candidates whose research and teaching interests complement our existing strengths.

Candidates must provide evidence of research excellence which can be demonstrated by a record of sustained high-impact contributions and publications in top-ranked and field-relevant journals, the submitted research statement, presentations at significant conferences, distinguished awards and accolades, and other noteworthy activities that contribute to the visibility and prominence of the discipline, as well as strong endorsements from referees of high standing.

Evidence of excellence in teaching will be provided through teaching accomplishments, the teaching dossier (with required materials outlined below) submitted as part of the application, as well as strong letters of reference.

At the University of Toronto, the creation of an equitable, diverse, and inclusive community is incumbent on every member of the community (see <https://tinyurl.com/UofTEDI>). The committee will be seeking evidence of a commitment to, and demonstrated experience in, advancing the principles of equity, diversity, inclusion (EDI); anti-racism; and, decolonization and the promotion of a respectful and collegial learning and working environment.

Such evidence will be demonstrated through the application materials covering topics such as (but not limited to): research or teaching that incorporates a

focus on equity-deserving communities, the development of inclusive pedagogies, the mentoring of students from underrepresented groups, and other related topics.

The University spans the cosmopolitan city of Toronto and delivers programs on three campuses in downtown Toronto (St. George), Mississauga and Scarborough, and in the acclaimed clinical and research centres of its nine fully affiliated teaching hospitals. Together, they attract over \$1.3 billion in research grants and contracts each year.

U of T also supports a vigorous program of commercialization and entrepreneurship through its nine incubators and accelerators, and is known as one of North America's leading universities in the creation of start-up companies. With more than 20,000 faculty and staff, almost 90,000 students enrolled across the three campuses, and an annual operating budget of \$2.7 billion, the University of Toronto is one of Canada's Top 100 Employers and one of Canada's Best Diversity Employers.

Salary will be commensurate with qualifications and experience, and is competitive with our North American peers.

The University of Toronto is partnering with the search firm Perrett Laver on this appointment. For further information and details on how to apply, please visit the Perrett Laver website at www.perrettlaver.com/candidates and quoting reference 5431. The application must include: the candidate's curriculum

vitae, a cover letter that highlights their interest in the position, what they feel they bring to it, research statement, list of publications, teaching dossier to include a strong teaching statement, sample course materials, and teaching evaluations and evidence of a demonstrated commitment to, and experience in, advancing the principles of equity, diversity, inclusion (EDI); anti-racism; and, decolonization.

Applicants must also arrange to have three letters of reference sent directly by the referee (on letterhead, dated, and signed) to Cora Hui at cora.hui@perrettlaver.com.

Review of applications will begin on March 7, 2022, however the position is open until filled.

We wish to acknowledge this land on which the University of Toronto operates. For thousands of years it has been the traditional land of the Huron-Wendat, the Seneca, and the Mississaugas of the Credit. Today, this meeting place is still the home to many Indigenous people from across Turtle Island and we are grateful to have the opportunity to work on this land.

Perrett Laver is a Data Controller and a Data Processor, as defined under the General Data Protection Regulation (GDPR). Any information obtained by our trading divisions is held and processed in accordance with the relevant data protection legislation. The data you provide us with is securely stored on our computerized database and transferred to our clients for the purposes of presenting you as a candidate and/or considering your suitability for a role you have registered interest in.

Our legal basis for much of our data processing activity is 'Legitimate Interests'. You have the right to object to us processing your data in this way. For more information about this, your rights, and our approach to Data Protection and Privacy, please visit our website <http://www.perrettlaver.com/information/privacy-policy/>.

If you have any questions about this position, please contact Cora Hui at cora.hui@perrettlaver.com.

Caution:

This ad is "posted only" to the U of T faculty job board. Please see the information above for the application instructions. Applications submitted via the U of T platform will NOT be considered for this position.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Diversity Statement

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ2S+ persons, and others who may contribute to the further diversification of ideas.

Accessibility Statement

The University strives to be an equitable and inclusive community, and proactively seeks to increase diversity among its community members. Our values regarding equity and diversity are linked with our

unwavering commitment to excellence in the pursuit of our academic mission.

The University is committed to the principles of the Accessibility for Ontarians with Disabilities Act (AODA). As such, we strive to make our recruitment, assessment and selection processes as accessible as possible and provide accommodations as required for applicants with disabilities.

If you require any accommodations at any point during the application and hiring process, please contact uoft.careers@utoronto.ca.

University of Utah

Faculty Position in Scientific Visualization

The Scientific Computing and Imaging (SCI) Institute at the University of Utah is growing and pursuing *multiple new faculty hires over the next 3 years*. These hires will expand the core research expertise at the SCI Institute, further enhance its strong research reputation in scientific, information, and biomedical visualization; image and data analysis; and interdisciplinary scientific computing. A major goal is to attract new partnerships across the University and beyond. Candidates whose research expertise integrates social and technical aspects are of particular interest, as are candidates who can contribute to the University's diversity.

This specific recruitment is for a tenure track faculty position at the Full or Associate Professor level in visualization. While we will consider

all areas of visualization, we are particularly interested in candidates with expertise and an established research record in scientific visualization. Successful candidates are expected to align with and complement the SCI Institute's core research thrusts, i.e., scientific, information, and biomedical visualization; image and data analysis; and interdisciplinary scientific computing. The candidate should advance the SCI Institute's goals of multidisciplinary and translational impacts. Candidates should have earned a Ph.D. in Computer Science or a closely related field and will have an appropriate academic home within a department in the College of Engineering, Medicine or Science.

All candidates are invited to submit a curriculum vitae; a cover letter containing a description of professional experience (including scientific accomplishments, leadership responsibilities and 3 references), a research plan (up to 3 pages); teaching strategy (up to 1 page) **directly to the University of Utah HR**. This research should fit in the context of the SCI Institute's mission of multidisciplinary bridge building (<http://www.sci.utah.edu/the-institute/bridges.html>).

The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, veterans, and persons with disabilities are strongly encouraged to apply. Veterans' preference is extended to qualified veterans. Reasonable disability accommodations will be provided with appropriate notice. For additional information about the University's

commitment to equal opportunity and access see: <http://www.utah.edu/nondiscrimination/>.

For more information please go to: <https://www.sci.utah.edu/opportunities/faculty-search/visualization.html>

University of Utah

Senior Faculty Position in Computational Oncology

The Scientific Computing and Imaging (SCI) Institute at the University of Utah is growing and pursuing **multiple new faculty hires over the next 3 years**. These hires will expand the core research expertise at the SCI Institute, further enhance its strong research reputation in scientific, information, and biomedical visualization; image and data analysis; and interdisciplinary scientific computing. A major goal is to attract new partnerships across the University and beyond. Candidates whose research expertise integrates social and technical aspects are of particular interest, as are candidates who can contribute to the University's diversity.

This specific recruitment is for a senior-level tenure track faculty position within the SCI Institute as part of a new faculty Cluster in Computational Oncology (CCO). Advanced computing, data science, imaging, and visualization are central to solving fundamental problems in cancer research and care. CCO is a highly innovative collaboration between **Huntsman Cancer Institute, the University of Utah's Comprehensive**

Cancer Center and the Scientific Computing and Imaging Institute at the University of Utah. Together we leverage our internationally renowned research strengths to make lifesaving advances in the prevention, detection, diagnosis, and treatment of cancer.

Initial hires as part of the CCO will consist of two senior positions, including 1) the Senior Director for Data Science at Huntsman Cancer Institute in the Department of Oncological Sciences (advertised separately) and 2) this position, a Computational Oncology leader within the SCI Institute. The academic home will be within a department in the College of Engineering, Medicine or Science. These two senior hires will be followed by multiple junior faculty positions.

For the Computational Oncology leader position, the SCI Institute is looking for an established researcher in an area that aligns with SCI's core research thrusts, i.e., scientific, information, and biomedical visualization, image and data analysis, and interdisciplinary scientific computing, with demonstrated leadership in applications to Oncology. Candidates whose research expertise integrates social and technical aspects are of particular interest, as are candidates who can contribute to the University's diversity. The successful candidate is expected to help coordinate joint initiatives, proposals, and faculty recruitment between the SCI Institute and HCI including the Computational Oncology Research Initiative (CORI) and other Cancer Informatics initiatives. The faculty member is expected to become a Cancer Center member, and as appropriate, may

be considered for an adjunct position in the Department of Oncological Sciences.

All candidates are invited to submit a curriculum vitae, a cover letter containing a description of professional experience (including scientific accomplishments, leadership responsibilities and 3 references), a research plan (up to 3 pages), teaching strategy (up to 1 page), and a statement of past, present, and future commitment to equity, diversity and inclusion (up to 1 page) to the [University of Utah HR](#). Applicants should describe their vision for interdisciplinary, computational oncology research leadership within the context of the SCI Institute's mission of multidisciplinary bridge building (<http://www.sci.utah.edu/the-institute/bridges.html>), especially collaborations with researchers within the Huntsman Cancer Institute.

The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, veterans, and persons with disabilities are strongly encouraged to apply. Veterans' preference is extended to qualified veterans. Reasonable disability accommodations will be provided with appropriate notice. For additional information about the University's commitment to equal opportunity and access see: <http://www.utah.edu/nondiscrimination/>.

For more information please go to: <https://www.sci.utah.edu/opportunities/faculty-search/visualization.html>

University of Utah

Lecturing Professor Position

The School of Computing at the University of Utah seeks enthusiastic applicants for the position of Lecturing Professor (at all ranks) beginning in the fall semester of 2022. This lecturing faculty position is intended to be a long term or permanent position, with possibilities for extended contracts and promotion within the University's Career Line Faculty structure.

The School of Computing currently employs 48 tenure-track and 9 lecturing faculty who collaborate to offer a variety of undergraduate and graduate degree and certificate programs. Lecturing faculty are valued members of the collegial School of Computing faculty and have frequent opportunities for professional growth.

The qualifications of an ideal candidate include (i) a PhD in computer science or a related field, (ii) a demonstrated proficiency in teaching, and (iii) an interest in curriculum development. Lecturing faculty typically teach four courses a year, are heavily involved in university governance and service, and are encouraged to continuously improve their scholastic credentials (e.g., by developing curriculum, employing innovative pedagogical methods, publication, etc.).

The School of Computing is updating and expanding the degree options for undergraduates, which provides an exciting opportunity for new lecturing faculty to make significant contributions to curriculum. In particular, candidates with expertise in web technologies

(frontend/backend infrastructure, web UI/UX, virtualization, security, and cloud) are sought.

Due to the success of the Master of Software Development, the only such program in the state of Utah, the School of Computing is also seeking candidates with expertise in software engineering, systems, and data analytics to help grow this program.

The School is deeply committed to equity, diversity and inclusion. To demonstrate this commitment, we have created the Utah Center for Inclusive Computing to broaden participation in the undergraduate majors (see ucic.cs.utah.edu). To build a more diverse and representative faculty, we strongly encourage applications from populations underrepresented in computing, as well as candidates with nontraditional backgrounds. The School is also committed to addressing lifestyle priorities and will work with candidates to develop opportunities for spouses and partners.

Salt Lake City is a desirable place to live, with a vibrant downtown showcasing cultural activities and dining options. Utah is renowned for its access to the outdoors, including world-class hiking and skiing opportunities. The University of Utah provides a generous benefits package with a variety of medical and dental plans from which to choose. Other important benefits include retirement, tuition reduction, a wellness program, and an Employee Assistance Program.

Candidates may apply through the following URL:

<https://utah.peopleadmin.com/postings/122423>

Candidates are requested to submit a cover letter, CV, 3 references, and a teaching statement. Also required is a commitment statement that describes how the candidate's research, teaching and experiences will contribute to the School's goal of fostering diversity, equity and inclusion.

Review of applications will begin after March 1st and will continue until the position is filled.

The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, veterans, and persons with disabilities are strongly encouraged to apply. Veterans' preference is extended to qualified veterans. Reasonable disability accommodations will be provided with appropriate notice. For additional information about the University's commitment to equal opportunity and access see: <http://www.utah.edu/nondiscrimination/>.

University of Utah

Faculty Position in Extreme Data Management Analysis and Visualization

SCI is seeking to fill a junior, tenure-track faculty position in the general areas of Extreme Data Management Analysis and Visualization. We are particularly interested in candidates with expertise in the management, processing, and streaming of very

large datasets, and their use in data analytics and visualization through distributed, high-performance computing environments. We particularly value, but do not require, previous experience in connections with scientific applications including, but not limited to, materials science, climate modeling, cosmology, clean energy, and neurosciences. Potential applications include connecting advanced computational systems (cloud or HPC) with high-resolution experimental instruments and remote, edge-based instrumentation. These interests reflect the strong research reputation of the Scientific Computing and Imaging (SCI) Institute in building the foundations for a national cyberinfrastructure in support of interdisciplinary science. Candidates will have an appropriate academic home within a department in the College of Engineering, Medicine or Science.

All candidates are invited to submit 1) a curriculum vitae, 2) a cover letter that describes their professional experience (including scientific accomplishments and leadership responsibilities), 3) a research plan (up to 3 pages), and 4) a teaching strategy (up to 1 page) to the [University of Utah HR](http://www.sci.utah.edu/the-institute/bridges.html). In these documents, candidates should discuss their vision for interdisciplinary, computational research and how it will integrate with existing strengths at the University of Utah. This research should fit in the context of the SCI Institute's mission of multidisciplinary bridge building (<http://www.sci.utah.edu/the-institute/bridges.html>) and our mission to increase access

to computing research and training to underrepresented minorities.

The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, veterans, and persons with disabilities are strongly encouraged to apply. Veterans' preference is extended to qualified veterans. Reasonable disability accommodations will be provided with appropriate notice. For additional information about the University's commitment to equal opportunity and access see: <http://www.utah.edu/nondiscrimination/>.

The University of Utah values candidates who have experience working in settings with students from diverse backgrounds, and possess a strong commitment to improving access to higher education for historically underrepresented students.

For additional information, please contact Valerio Pascucci (pascucci@sci.utah.edu), Search Committee Chair.

For more information please go to: <https://www.sci.utah.edu/opportunities/faculty-search/visualization.html>

University of Vienna, Austria

Tenure-Track Assistant Professor Position in Algorithms for Scalable AI

The faculty of Computer Science is inviting applications for a full-time tenure-track assistant professor position in **scalable algorithmic approaches for AI**. Excellent

candidates in the fields of **machine learning, AI, algorithms, or high performance computing research** are encouraged to apply by 15 March, 2022.

Please state reference No.: **12840** in your application.

Get detailed information on the position and the application process:

https://univis.univie.ac.at/ausschreibungstellensuche/flow/bew_ausschreibung-flow?flowExecutionKey=_cAIB5CBIC-D186-CF82-20AB-CDCBIDOAC698_kDCB22484-E78C-3F10-AF01-3234895826BC&tid=89875.28

VinUniversity

The College of Engineering & Computer Science

VinUniversity offers competitive international salaries, world class infrastructure, a dedicated international senior management and academic team, excellent benefits and support for junior and mid-career faculty with a diverse range of exciting, cross-disciplinary research projects.

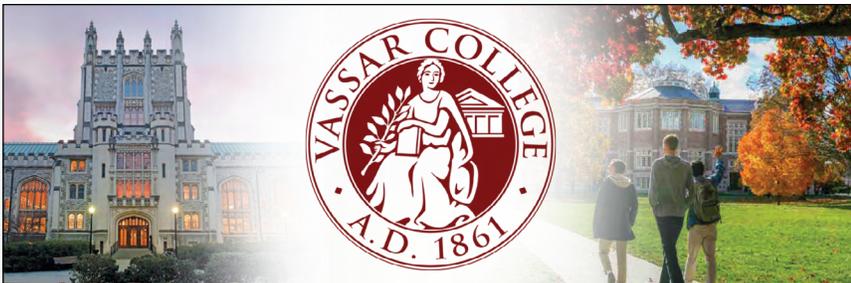
Through excellence in academics, research, and innovation, the College of Engineering and Computer Science (CECS) aims to create a generation of young leaders

with the qualities, skills, and knowledge needed to lead the development of science and technology, to increase productivity, and bring about radical innovation for the benefit of society.

With Cornell University's certified curricula, advanced infrastructure, and modern pedagogical approaches, CECS offers degree programs in three majors: Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering, and Bachelor of Science in Computer Science. CECS expects to offer graduate programs in the spring semester of the academic year 2021-2022, focusing on AI, Data Science, Cybersecurity, and Innovation.

A world-class faculty, top Vietnamese students, international standard research facilities, and dedicated staff have built an interdisciplinary research environment at CECS. The Smart Health Center established at CECS focuses on research areas that address the challenges and opportunities in modern healthcare systems, including big data analytics, medical image processing, 3D printing for biomedical, security, privacy protection, and others.

All faculty members will be provided with an annual personal development fund for scholarly activities such as attending conferences, hiring research assistants, and buying research equipment. Faculty members can also apply for internal seed grants and have opportunities to collaborate with researchers from the Vingroup ecosystem, such as VinBigdata,



Post-Doctoral Fellow in Data Science

Department: Mathematics & Statistics Department

Posting Number: F041P

For full consideration applicants should apply by: 03/01/2022

Candidates should submit:

- Cover letter, detailing how they are fit for this position in data science and specifically to teach data science to students and faculty
- CV
- A teaching statement
- A research statement
- A statement highlighting contributions to or future plans for promoting diversity and inclusion through teaching, research, and other involvements
- An unofficial graduate transcript
- Two letters of recommendation

All applicants must apply online at:
<https://apptrkr.com/2858799>

VinAI, VinBrain, VinMec, VinHomes, Vincom Retail, VinPearl, VinSmart, and VinFast.

For more information, please visit the CECS website: <https://vinuni.edu.vn/college-of-engineering-computer-science/>

To increase faculty diversity, the College of Engineering and Computer Science is seeking competent applicants to apply for the following positions. Please visit the link attached accordingly for more detailed information about all the open positions and the application instructions.

- Faculty of Electrical Engineering: <http://apply.interfolio.com/99995>
- Faculty of Mechanical Engineering: <http://apply.interfolio.com/99997>
- Faculty of Computer Science: <http://apply.interfolio.com/99996>
- Faculty of Mathematics: <https://apply.interfolio.com/100526>