COMPUTING RESEARCH NEWS

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

MARCH 2020 Vol. 32 / No. 3

CRN At-A-Glance

CRA Board Elections in Progress

Ballots have been distributed to all CRA department chairs and lab directors. Each will have one vote for each open slot on the board. Completed ballots are due March 31. Click here for the slate of nominees.

See page 15 for full article.

2020 CRA Award Recipients

A. Nico Habermann Award

Carla Ellis

Service to CRA Award

CRA Taulbee Survey

CRA Distinguished Service Award

CARES Movement

In This Issue

2020 Conference at Snowbird Agenda

Dear CRA Members,

CRA continues to monitor the situation concerning COVID-19 and its potential impact on our upcoming CRA's Conference at Snowbird, July 21-23, 2020. At the moment, the circumstances remain too uncertain for us to make any decisions about whether the conference will take place as planned.

We believe there is great value in bringing together the leadership of the computing research community in-person at Snowbird and will do all that we can to make that happen this July. But, obviously, health and safety concerns are paramount and we plan to heed Federal, State and local guidance about travel and public gatherings.

While we are not yet sure when we will make the decision to go ahead with the conference as in the past or modify it in some form, our intention is to decide with sufficient time for those who plan to attend to make their arrangements. Until then, it may be worthwhile to hold off on making travel plans.

If you have any questions about the conference, please direct them to snowbird@cra.org.

Conference theme: Tech for Good

This year's CRA Conference at Snowbird will highlight computing's potential for social good and the related responsibility for computing research to consider the risks inherent in the work we do. Topics include social impact, positive and negative externalities, risks and opportunities, and responsibility.

Track themes:

Track 1: Computing Departments
Track 2: Computing Education
Track 3: Computing Research in Industry
Track 4: Tech for Good

Schedule

TUESDAY, JULY 21

2:00 pm	**Registration**
3:00 – 5:45 pm	**New Chairs Workshop** 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. Co-Chairs: • Susanne Hambrusch (Purdue University) • Rachel Pottinger (University of British Columbia)

Snowbird Agenda *(continued)*

5:00 - 5:45 pm **Industry Attendee Welcome**

Co-chairs:

- Vivek Sarkar (Georgia Tech)
- Jaime Teevan (Microsoft)

6:00 **Welcome Reception**

7:00 **Dinner/Awards Presentations/Plenary Session**

Welcome from the Conference Co-Chairs

Awards Presentations

Plenary: **Hacking the Human Bias in the Robotics Machine**

Speaker: Ayanna Howard (Georgia Tech)

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 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.

WEDNESDAY, JULY 22

6:00 am Registration/Breakfast

8:30 am Plenary: **CRA Strategic Planning**
Chair: Ellen Zegura, Georgia Tech

10:00 am Break

10:30 am **Parallel Discussions of Strategic Plan**

Noon **Lunch**

1:30 pm

Parallel Tracks

Track 1: Departmental Plans for Broadening Participation in Computing

Chair and Moderator: Nancy Amato (University of Illinois)

Speakers:

- Tracy Camp (Colorado School of Mines)
- Jeff Forbes (NSF)
- Mary Hall (University of Utah)
- Ron Metoyer (Notre Dame)

The National Science Foundation's (NSF) Directorate for Computer and Information Science and Engineering (CISE) is committed to broadening participation in computing (BPC). Since 2017, CISE has started asking CISE Principal Investigators to include meaningful BPC plans in proposals submitted to a subset of CISE's research programs. The plans can be individually developed by PIs or PIs could participate in departmental BPC efforts. This session will review the BPC requirement with a focus on the Departmental BPC Plan. It will be organized as a panel which will include a representative from NSF and the organizers of an NSF-sponsored Workshop on Departmental Plans for BPC which was held at UIUC in November 2019. It will also review useful resources such as the BPCnet.org portal which is sponsored by NSF and hosted by CRA.

Track 2: Incorporating Ethics into Computer Science Education

Co-Chairs:

- Bobby Schnabel (University of Colorado – moderator
- Jenn Beard (Mozilla)
- Kathy Pham (Mozilla)

Speakers:

- Anna Lauren Hoffman (University of Washington)
- Seny Kamara (Brown University)
- Helena Mentis (University of Maryland, Baltimore County)
- Kathy Pham (Harvard University)
- 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 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 efforts led by an ACM task force to collect and provide materials that will 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: Computer Science Research in Industry

Chair: Jaime Teevan (Microsoft) – moderator

Speakers:

- Joaquin Quiñonero Candela (Facebook)
- Brent Hecht (Microsoft)
- Mounia Lalmas (Spotify)
- Fernando Pereira (Google)

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 computer science 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: Earth Day at Snowbird: Computing to Address Grand Challenges Facing Our Changing Planet

Co-Chairs:

- Kate Larson (University of Waterloo)
- Shashi Shekhar (University of Minnesota)

Speakers:

- Liz Bradley (University of Colorado Boulder)
- Lucas Joppa (Microsoft)
- Vipin Kumar (University of Minnesota)

The Earth Day panel will bring together thought leaders in academia, industry and government to explore discuss computing opportunities to address the challenges that Earth faces today by addressing questions such as the following:

- What is the role of computer science in this interdisciplinary (or transdisciplinary) area? What are computing research success stories in addressing grand challenges facing the Earth?
- 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.

Snowbird Agenda *(continued)*

3:00 pm Break

3:30 pm **Networking Activities**
Guided Hikes
Interactive Computing Ethics Workshop

- Chair: Michael Skirpan (Probably Models)

6:30 pm Dinner

After dinner research talks – organized by the Computing Community Consortium
Computing Research Futures

Chair: Liz Bradley (University of Colorado, Boulder)

Speakers:

- Todd Hylton (University of California, San Diego)
- Melanie Mitchell (Portland State University)

THURSDAY, JULY 23

8:30 am **Plenary Session**

Speaker: Margaret Martonsoi (NSF CISE AD)

The fields of computer and information science and engineering are central to many of society's needs, opportunities, and challenges. My talk will give an overview of computer and information science and engineering research, education, and research infrastructure programs at the National Science Foundation, and relate them to the trends and topics that will impact their future trajectory. I will highlight particular opportunity areas where individual researchers, teams of researchers, and whole departments can engage going forward.

10:00 am Break

10:30 am – Noon **Parallel Tracks**

Track 1: Development of Teaching Faculty

Chair and Moderator: Ran Libeskind-Hadas (Harvey Mudd College)

Speakers:

- Christine Alvarado (University of California, San Diego)
- Nancy Amato (University of Illinois)
- Dan Grossman (University of Washington)
- 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 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 and Moderator: Lorrie Cranor (Carnegie Mellon University)

Speakers:

- Matt Bishop (University of California, Davis)
- Bo Yuan (RIT)

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 and Moderator: Divesh Srivastava (AT&T Labs-Research)

Speakers:

- Laura Haas (University of Massachusetts, Amherst)
- Chris Ramming (VMWare)
- Jennifer Rexford (Princeton University)
- Vivek Sarkar (Georgia Tech)
- Alfred Spector (Two Sigma)
- Katherine Yelick (University of California, Berkeley and Lawrence Berkeley National Laboratory)
- 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 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) – moderator
- Ece Kamar (Microsoft)
- Miranada Bogen (Facebook)
- Joaquin Quiñonero Candela (Facebook)

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?
- 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?
- Rather than attempting to tweak models, is our time better spent developing new technologies and systems that directly address societal harms?

Snowbird Agenda *(continued)*

12:00 pm **Lunch**

1:30 pm **Parallel Tracks**

Track 1: Undergraduate Research and Booming Enrollments: Who Wins?

Chair and Moderator: Lori Pollock (University of Delaware)

Speakers:

- Christine Alvarado (University of California San Diego)
- Edward Coyle (Georgia Tech)
- Sarah Heckman (North Carolina State)
- Diba Mirza (University of California, Santa Barbara)

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 on Computer Science Education

Chair and Moderator: David Ebert (Purdue University)

Speakers:

- Michael Franklin (University of Chicago)
- Magda Balazinsak (University of Washington)
- Remzi Arpaci-Dusseau (University of Wisconsin)
- Brian Noble (University of Michigan)

In the 2016 CRA Report on Computing Research and the Emerging Field of Data Science, we highlighted the fact that data science will drive fundamentally new research in computer science and that our community has the opportunity to shape the emerging field of data science. In this session, we'll discuss

and 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 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., 1CR)?
- Should we create new specializations/degrees or integrate into core programs?
- How has student interest in specialization shifted to data science or the shift just specifically to Machine Learning and AI?
- How should we manage the growing demand, and will it continue?

Track 3: Allyship: Fostering Inclusion from Academia to Industry

Chair: Patrick Pantel (Facebook)

Diverse perspectives and backgrounds are critical to the technologies we develop and to the community of experts surrounding us. A more diverse community requires us to focus on inclusion, ensuring that diverse perspectives are welcomed and supported. By building our "ally muscles", we are able to raise our own awareness, spot exclusion, and proactively support those around us to ensure we are building an inclusive workplace from academia to industry. In this interactive session, attendees will connect with each other in small group activities to (1) build empathy and awareness among participants by surfacing real-life "ally scenarios" (e.g., interrupting the interrupter, taking credit for others' work, tokenism); (2) brainstorm solutions for how to react in these real situations, leveraging the diverse perspectives in the room; and (3) walk away with a common language to address difficult situations in the moment rather than letting them slide.

Track 4: Techlash in Context: What Should CS Departments Do?

Chair and Moderator: Vivek Sarkar (Georgia Tech)

Speakers:

- Lorrie Cranor (Carnegie Mellon University)
- Alfred Spector (Two Sigma)
- Moshe Vardi (Rice University)

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!
3:00 pm	Break
3:30 – 5:00 pm	**Making a Federal Case for Computing**
	Speaker: Peter Harsha (CRA)
5:00 pm	Break
6:30 pm	Dinner

Committee:

- Penny Rheingans (University of Maine) Co-Chair
- Jaime Teevan (Microsoft) Co-Chair
- James Allan (University of Massachusetts, Amherst)
- Christine Alvarado (University of California, San Diego)
- Lorrie Cranor (Carnegie Mellon University)
- Kate Larson (University of Waterloo)
- Ran Libeskind-Hadas (Harvey Mudd College)
- Patrick Pantel (Facebook)
- Divesh Srivastava (AT&T)

Carla Ellis Receives the 2020 CRA A. Nico Habermann Award

The Computing Research Association today announced Carla Ellis as the recipient of the *2020 CRA A. Nico Habermann Award*. For more than 30 years, Ellis has worked tirelessly to address diversity at all stages of the computing education pipeline. She has contributed significantly to initiatives and organizations dedicated to increasing participation of women and under-represented groups in computing research, including Systers, the CRA Committee on Widening Participation (CRA-WP), and the National Center for Women and Information Technology (NCWIT).

In 1987, Carla was one of the founders of Systers, the online community that provides a safe space for women to discuss issues they have at work and to share ideas and resources.

In 1999, Ellis joined the CRA Committee on Women in Computing Research (now CRA-WP) and was the co-chair from 2002-2005 along with Mary Jean Harrold. During that period, the number of activities supported by CRA-W grew at a rapid pace, and during her tenure as co-chair, CRA-W received the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring in 2004 and the National Science Board's Public Service Award in 2005. Ellis also helped initiate CRA-W's Discipline Specific Workshops, which brought mentoring workshops to major technical conferences. In addition, her skills as a fundraiser have been crucial in ensuring that these programs ran successfully.

After serving three very successful years as CRA-W co-chair, Ellis served a 4-year term as co-chair of the NCWIT Academic Alliance. There she helped to build the foundations of that organization including assisting with the drafting of organization bylaws. She has also been active over the years at the Grace Hopper Celebration of Women in Computing, where she has been a program co-chair for many activities.

This award honors the late A. Nico Habermann, who headed NSF's Computer and Information Science and Engineering Directorate and was deeply committed to increasing the participation of women and underrepresented minorities in computing research. With this award, CRA recognizes individuals who have made outstanding contributions aimed at increasing the numbers and/or successes of underrepresented members in the computing research community. This award acknowledges work in areas of government affairs, educational programs, professional societies, public awareness, and leadership that has a major impact on advancing these members in the computing research community.

About the Award and Selection Committee

This year's selection committee includes Andrea Danyluk (Williams College), David Ebert (Purdue University), and Kate Larson (University of Waterloo) Chair.

CARES Movement Receives the 2020 CRA Distinguished Service Award

The Computing Research Association today announced it has selected the CARES movement – the Committee to Aid Reporting on Discrimination and Harassment Policy Violations – as the recipient of the *2020 CRA Distinguished Service Award* for positively transforming the computing research community rapidly and fundamentally. CRA's Distinguished Service Award recognizes a person or organization that has made an outstanding service contribution to the computing research community. This award recognizes service in the areas of government affairs, professional societies, publications, conferences, and leadership that has a major impact on computing research.

CARES provides a resource for helping people experiencing issues related to discrimination, harassment, or bullying. The role of CARES is to "serve as a resource comprising well-known and respected people in the architecture community who are approachable and willing to listen and help people who experience discrimination and harassment" at SIGARCH and SIGMICRO events. CARES members agree to be a sounding board for these people and can provide advice on the steps necessary to have the matter further investigated by parent organization ACM. In addition to addressing this specific and pressing need, CARES has also served to mobilize and engage the entire computer architecture community, resulting in a more inclusive and supportive environment for all.

The first CARES committee was founded by the 2018 ACM SIGARCH Officers, led by Sarita Adve, in response to a longstanding and disturbing reality of gender bias and sexual harassment in the computer architecture community, which were brought to the forefront in blog posts by Natalie Enright-Jerger, Kim Hazelwood, and Kathryn S McKinley, and by a statement at MICRO by Margaret Martonosi.

The CARES movement has rapidly spread to other research areas where it is having a similarly transformative impact. In particular, many other ACM SIGs have or are setting up their own CARES committees modeled after SIGARCH CARES. CARES is also expanding beyond ACM - a CARES committee is being developed for the IEEE Robotics and Automation Society, the theory community, and IEEE leadership is interested in exploring this model for other societies.

The transformative work of CARES is not only aimed at calling attention to issues of sexual harassment and gender bias in the computing research field, but also in identifying and taking positive steps to make our research communities and conferences more welcoming.

This year's selection committee includes Brent Hailpern (IBM Research) Chair, Eric de Sturler (Virginia Tech), and Laura Haas (University of Massachusetts - Amherst).

CRA Taulbee Survey Receives 2020 Service to CRA Award

The Computing Research Association (CRA) is pleased to honor the CRA Taulbee Survey with the *2020 Service to CRA Award* in recognition of 50 years of providing an invaluable resource to CRA as well as to the computing community.

The CRA Taulbee Survey is the principal source of information on the enrollment, production, and employment of Ph.D.s in information, computer science and computer engineering (I, CS & CE) in North America. It also provides salary and demographic data for faculty in these areas, and statistics given also report gender and ethnicity breakdowns. The results provide useful data to CRA member departments and are often referenced by national media. Reports are published in the May issue of Computing Research News and can be viewed at www.cra.org under "Resources" or "Data."

Conducted each fall since 1974, the survey in general covers the preceding academic year. Faculty salary data, however, are for the current year. The survey has an excellent response rate–a fact which we believe lends great credibility to the result – and is widely used both within and outside the computing research community to gain an understanding of the trends that shape the community.

The title of the survey honors Orrin E. Taulbee of the University of Pittsburgh, who conducted these surveys for the Computer Science Board until 1984, with retrospective annual data going back to 1970.

The Service to CRA Award will be presented at the upcoming 2020 CRA Conference at Snowbird.

Highlights of the 2020 CRA Computing Leadership Summit

On Thursday, February 27, the CRA hosted its annual Computing Research Leadership Summit for the senior leadership of CRA member societies (Association for the Advancement of Artificial Intelligence, Association for Computing Machinery, CS-Can/Info-Can, IEEE Computer Society, Society for Industrial and Applied Mathematics, and USENIX).

CRA is currently embarking on a strategic planning effort to think broadly and ambitiously about the future of the organization. How CRA works with its member societies is key part of the effort, and CRA used this gathering to discuss the strategic themes and priority outcomes that have emerged from the strategic planning sessions so far. The group considered opportunities for synergy, and areas where organizational priorities intersect. Further discussions on CRA strategic planning continued the next day at the CRA board meeting.

The Leadership Summit participants were also invited to attend an informal reception with participants of CRA's Career Mentoring Workshop and CRA board members.

After the reception, two sessions were held jointly with the CRA board meeting:

- Margaret Martonosi, assistant director of the CISE Directorate at NSF, addressed the CRA board for the first time in her new role and gave an update on current and new initiatives.
- CRA Director of Government Affairs Peter Harsha discussed the current environment for science policy in D.C.

CRA Board Elections in Progress

Ballots have been distributed to all CRA department chairs and lab directors. Each will have one vote for each open slot on the board. Completed ballots are due March 31. Click here for the slate of nominees.

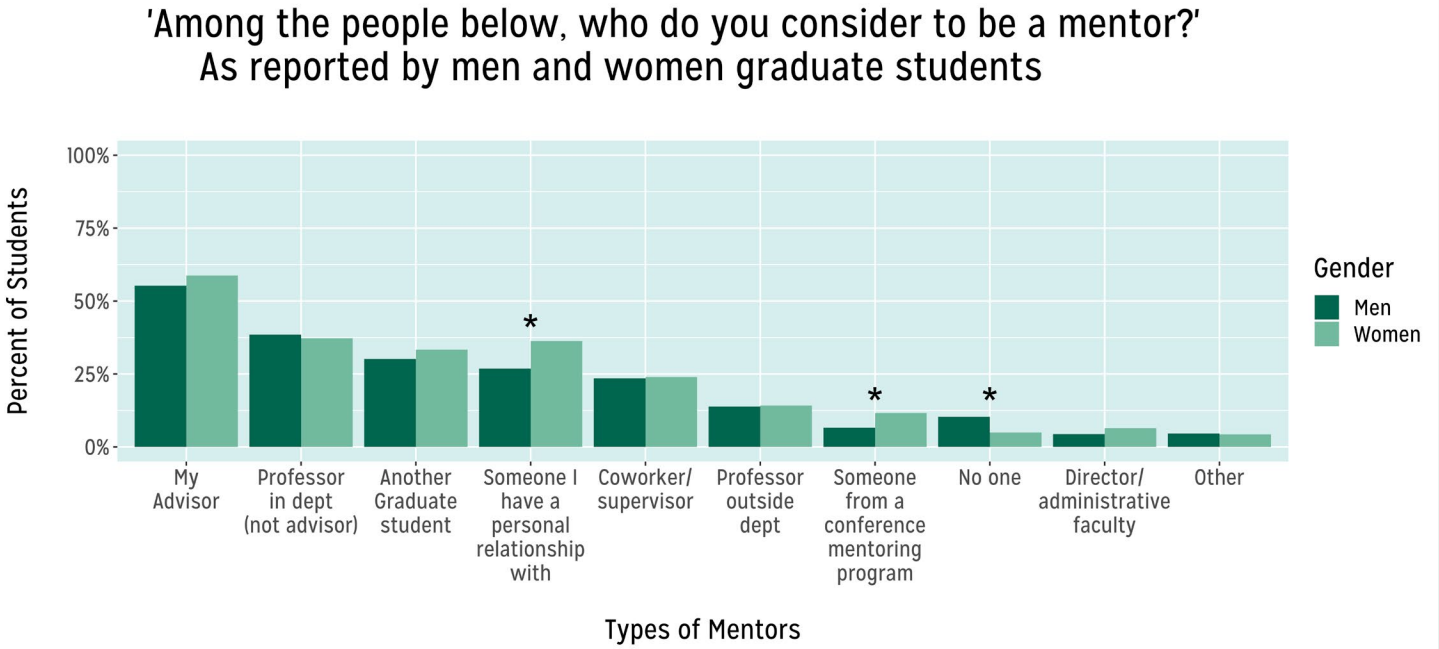
2020 CRA Career Mentoring Workshop

The 2020 CRA Career Mentoring Workshop was held February 27-28 in Washington, DC. More than 130 attendees engaged in a variety of panels and mentoring activities with senior researchers, including several CRA board members, and representatives from government agencies. This year's workshop was organized by Carla Brodley (Northeastern University) and Dan Grossman (University of Washington) and featured a speed networking session.

Who Do Men and Women Graduate Students Consider to Be Their Mentors?

CERP
Computing Research Association
Evaluation

By Evelyn Yarzebinski, CERP Research Associate



Notes: Respondents were asked to select all options that applied. For the purposes of this analysis, a gender binary is assumed.
* indicates a significant difference between groups at the 0.05 level, and where Cohen's d is at least 0.15.
Source: Data Buddies Survey (DBS) 2018, Center for Evaluting the Research Pipeline, Computing Research Association

Graduate students rely on mentors for a variety of reasons, such as discussing their future, receiving advice, and sharing successes or disappointments, among others. Where are graduate students finding these mentors? CERP summarized the results of the Fall 2018 Data Buddies Survey (DBS) to reveal some common sources of mentors and also performed independent-samples *t*-tests to reveal whether there are any differences between where men and women graduate students find mentors.

As shown in the plot, men (N = 1,767) and women (N = 1,134) graduate students report similar rates of mentors from academic settings. Over half of men and women consider their advisor to be a mentor, followed next by another professor in their department. Outside of academic settings, however, men and women report different rates of mentors. Women report significantly higher rates of finding mentors outside of academic settings than men do, such as someone with whom they have a personal relationship (e.g. A friend, partner, family member, religious leader, etc.) and someone from a conference mentoring program. Men are significantly more likely than women to report that they do not have a mentor. Finally, women indicated they had mentors from significantly more sources than men reported.

Graduate Student Mentors *(continued)*

Significant *t*-tests:

- Women reported higher rates of mentorship through personal relationships (M = 0.36, SD = 0.44) than men did (M = 0.27, SD = 0.48); t(2272) = -5.32, p < 0.001. Cohen's *d* = .22
- Women reported higher rates of mentorship through connections at conference mentoring programs (M = 0.12, SD = 0.32) than men did (M = 0.07, SD = 0.25); t(1986) = -4.47, p < 0.001. Cohen's *d* = 0.17
- Men reported higher rates of not having a mentor (M = 0.10, SD = 0.30) than women did (M = 0.05, SD = 0.22); t(2869) = 5.59, p < 0.001. Cohen's *d* = 0.19
- Women reported more sources of mentors (M = 2.31, SD = 1.56) than men (M = 2.14, SD = 1.42); t(2250) = -2.95, p < 0.01, Cohen's *d* = 0.11

Notes:

The survey data represented in this infographic comes from the ten options for the 2018 DBS question "Who do you consider to be a mentor?". Graduate students were able to select one or more of the following options: A professor within my department (not my advisor); A professor outside of my department; Someone I met at a conference or mentoring program sponsored by an outside organization (or other professional activity); No one; Someone else; My advisor; A graduate student (e.g., graduate teaching/research assistant, graduate student mentor); A coworker, supervisor, or someone else with whom I have a professional relationship; A family member, partner, friend, pastor, or someone else with whom I have a personal relationship; A Director or administrative faculty.

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. You can join Data Buddies here.

This material is based upon work supported by the National Science Foundation under grant numbers CNS-1246649, DUE-1431112, and/or DUE-1821136. 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.

Thank you, Data Buddies! (Fall 2019)

CERP
Computing Research Association
Evaluation

By CERP Staff

CRA and CERP wish to thank the institutions and departments that distributed the 2019 annual Data Buddies Survey! A total of **134 institutions** worked with the Data Buddies Project for the 2019 survey year, with 50 departments receiving "elite" status by obtaining a response rate of 20% or more.

The collective efforts of Data Buddies institutions enable CERP to provide resources to the computing community through research and evaluation focused on students' experiences in computing degree programs. For example, CERP publishes monthly infographics and conducts research using Data Buddies data.

Is your institution listed below? If not, help the computing community by becoming a Data Buddy today! Joining is free and easy, and your department will receive a report every year you participate in the project. Check out our sample report here!

Click here to learn more about Data Buddies and click here to sign up!

Special thanks to the **50 Elite Data Buddies**, who had at least a 20% response rate from their students!

Baldwin Wallace University
Bethune-Cookman University
Brown University*
Christopher Newport University
CodeCrew Code School
Colgate University*
Colorado School of Mines*
Columbia University*
Davidson College
Farmingdale State College
George Mason University*
Harvey Mudd College*
Illinois Wesleyan University
Kean University*
Middlebury College
New Jersey Institute of Technology*
New Mexico State University-Main Campus*
Pomona College*
Rensselaer Polytechnic Institute*
Simmons University
Southwestern University
St. Mary's College of Maryland
Swarthmore College*
Texas A&M University*
Tufts University*
University of California-Riverside*
University of Chicago*
University of Delaware*
University of Hawaii-Hilo
University of Illinois-Chicago (CS)*
University of Illinois-Urbana Champaign*
University of Maine*
University of Maryland-Baltimore County*
University of Massachusetts-Amherst*
University of North Carolina-Charlotte (CS)
University of North Carolina-Charlotte (SIS)*
University of Puget Sound*
University of Rochester*
University of San Diego
University of South Carolina-Columbia*
University of Texas-Austin (CS)*
University of Texas-San Antonio (CS)
University of Virginia*
Valdosta State University
Washington and Lee University
Washington University-St Louis*
Wayne State University*
Whitman College*
Winston Salem State University
Worcester State University

* Indicates CRA member departments.

Data Buddies *(continued)*

And a big thank you to the rest of the actively engaged Data Buddies who contributed to the project this year!

Arizona State University*
Auburn University*
Augustana College
Barnard College*
Boston University (Bioinformatics)
Boston University (CS)*
California State University-Long Beach
Calvin University
Carnegie Mellon University*
Case Western Reserve University*
Clovis Community College
Colorado State University*
Connecticut College
Cornell University*
Duke University*
Eastern Washington University
Fisk University
Gallaudet University
Georgia Institute of Technology*
Grinnell College*
Harvard University*
Johns Hopkins University*
Kansas State University*
Miami University-Oxford*
Montana State University*
Mount Holyoke College*
Northeastern University*
NYU Tandon School of Engineering*
Oberlin College
Princeton University*
Purdue University*
Radford University
Rochester Institute of Technology*
Rutgers University-New Brunswick Campus*
San Diego State University
Smith College
Southern Connecticut State University
Stony Brook University*
SUNY College-Plattsburgh
Temple University
Texas Southern University
Texas State University*
The Ohio State University*
Union College*
University of Alabama*
University of Alabama-Birmingham*
University of British Columbia*
University of California-Berkeley*
University of California-San Diego*
University of California-Santa Barbara*
University of Central Florida*
University of Cincinnati*
University of Colorado-Boulder*
University of Florida*
University of Houston*
University of Illinois-Chicago (ECE)
University of Illinois-Springfield
University of Maryland-College Park (CS)*
University of Massachusetts-Lowell*
University of Michigan-Ann Arbor*
University of Michigan-Flint
University of Minnesota-Twin Cities*
University of Nebraska-Kearney
University of Nebraska-Lincoln*
University of Nevada-Reno*
University of New Mexico*
University of North Carolina-Chapel Hill*
University of North Carolina-Charlotte (BiG)
University of North Texas*
University of Northern Iowa
University of Notre Dame*
University of Pennsylvania*
University of Pittsburgh*
University of South Florida-Main Campus*
University of Texas-Austin (ECE)
University of Texas-Dallas*
University of Texas-El Paso*
University of Toronto*
University of Utah*
University of Washington*
Wellesley College
Yale University*
Youngstown State University

* Indicates CRA member departments.

This message 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.

Data Buddies Survey is supported by the National Science Foundation under grant numbers CNS-1246649, DUE-1431112, and DUE 1821136. 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.

CRA Education Committee Selects Two New Graduate Fellows

CRA-E
Computing Research Association
Education

CRA's Education Committee (CRA-E) has recently selected two 2020 CRA-E Graduate Fellows - Ian Ludden from the University of Illinois at Urbana-Champaign and Jean Salac from the University of Chicago.

Ian Ludden
University of Illinois at Urbana-Champaign

Ian is a Ph.D. student in computer science at the University of Illinois at Urbana-Champaign advised by Sheldon Jacobson. He earned his B.S. in Computer Engineering and Mathematics at Rose-Hulman Institute of Technology in November 2016 and worked as a software engineer developing healthcare integration tools before starting graduate school. His research interests include algorithmic game theory, graph theory, and optimization, and his current projects apply these fields to political redistricting. On the side, he mentors undergraduate research projects developing predictive models for the NCAA March Madness men's and women's basketball tournaments. He has served as a teaching assistant for six semesters, primarily for CS Theory courses, and was granted the privilege of teaching his own section of discrete mathematics in summer 2020.

Ian is passionately exploring a teaching-focused academic career through experiences such as training new CS teaching assistants through the Center for Innovation in Teaching and Learning, working as a course aide for the teaching and leadership seminar for new TAs in the Grainger College of Engineering, and attending the CRA-E academic careers workshop at FCRC 2019.

Jean Salac
University of Chicago

Jean is a computer science Ph.D. student and NSF Graduate Fellow at the University of Chicago working with Professor Diana Franklin. She earned her M.S. from UChicago in 2020 and her B.S. from the University of Virginia in 2017, both in computer science. Her research interests include computer science education and human-computer interaction. Her doctoral research focuses on identifying barriers young children face when learning how to program and developing strategies to overcome such barriers. Her work has been presented at the Technical Symposium on Computer Science Education (SIGCSE), International Computing Education Conference (ICER), Conference on Human Factors in Computing Systems (SIGCHI), and Tapia Celebration of Diversity in Computing, and has also earned an honorable mention for Best Paper at CHI.

Jean is passionate about broadening participation in computing and STEM more broadly. She is active in several local diversity initiatives, from founding her department's Graduate Women in CS initiatives to recruiting and retaining graduate students from marginalized identities with the grassroots organization GRIT. She is a co-organizer of the Chicago Women in STEM symposium and has previously co-organized the Transcending Boundaries Research Symposium for scholars of color. She has also participated in CRA-WP programs.

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.

Computing Research at AAAS

CCC
Computing Community Consortium
Catalyst

By Ann Schwartz Drobnis, CCC Director

Every February brings an exciting event for scientists – the AAAS Annual Meeting. AAAS is the American Association for the Advancement of Science, whose mission is to "advance science, engineering, and innovation throughout the world for the benefit of all people." It is the world's largest multidisciplinary scientific society and the publisher of the Science family of journals. This year's Annual Meeting brought scientists, engineers, and press from around the world to Seattle, Washington for three days of scientific sessions, panels, press events, discussions, and plenary talks in many different disciplines of science.

> "Computer science touches almost every aspect of our society today so it is critical that computer scientists engage in discussions of pressing challenges and evaluate how we as a discipline can help address those challenges. Disinformation, its rapid spread, and the toll it is taking on our democracy is a great example – computer science has contributed to the rise of this challenge and we can certainly contribute to finding solutions, but to do so we need to connect with other disciplines and honestly assess and discuss the vulnerabilities and security risks of the things we create."
> – Nadya Bliss, CCC Executive Council Member

Traditionally, computing has been under-represented at the Annual Meeting despite its great potential to inform scientists and researchers about the exciting research happening in the field and across related and impacted disciplines, especially as it relates to broader impacts of science and policy.

As Jim Kurose, former Assistant Director of the Computer and Information Science and Engineering Directorate at the National Science Foundation and a member of the Program Committee for the annual AAAS meeting shared, "The annual AAAS meeting is absolutely the best face-to-face venue for sharing the state-of-the-art and recent advances in computing with the broader scientific community. This happens through special sessions that are dedicated to specific topics, as well as through widely-attended keynote talks. This year, three prominent computer scientists – Bill Gates, Eric Hovitz, and Krysta Svore – gave awesome keynote addresses at the Seattle meeting."

Bill Gates, co-founder of Microsoft and Co-Chair of the Bill & Melinda Gates Foundation, spoke about how gene editing and AI can benefit the world's poorest populations (watch the video of Gates' speech here). Eric Horvitz, Technical Fellow and Director of Microsoft Research Labs, gave a topical lecture on AI Advances and Aspirations. Krysta Svore, General Manager of Quantum Systems at Microsoft, gave a talk titled Develop for Quantum Impact.

The Computing Community Consortium (CCC) has been working with members of AAAS's Section T (Information, Computing, and Communications) to increase the presence of computing research at the Annual Meeting. There were 18 scientific sessions that identified with Section T at this year's meeting – which is likely an all-time high, ranging in topics from synthetic biology to communication through touch. The CCC sponsored five of these scientific sessions:

- New Approaches to Fairness in Automated Decision Making
- Using Computing to Sustainably Feed a Growing Population
- Artificial Intelligence Research: A Community Roadmap
- Detecting, Combating, and Identifying Dis and Mis-information
- Next Generation Computer Hardware

Related resources from each session can be found by following the hyperlinks, and session slides are linked below the speaker's name. In addition, the Catalyzing Computing podcast recorded a live podcast from the AAAS Main Stage with John Beieler from the Office of the Director of National Intelligence and Nadya Bliss led a debrief about the Disinformation Session on the Expo Stage. In-depth write-ups about each session and the Q&As that followed will be appearing on the CCC Blog in the coming weeks.

CCC
Computing Community Consortium
Catalyst

"As a computer scientist and Chair of the Computing Community Consortium, I believe that it is important that we explain the value of our work to society. This is due to the altruistic motivation of enhancing our positive impact and the beneficial motivation of ensuring that citizens and their representatives see the value to society of funding pre-competitive information technology work. AAAS is a great venue to share our insights. Now, and going forward, is an important time to do so, as technology products are no longer viewed as an unalloyed good." – Mark D. Hill, CCC Chair

Proposals for **AAAS 2021** are due by April 16, 2020. Please consider **submitting a proposal** yourself or reaching out to the CCC (**cccinfo@cra.org**) if you have any questions or want to discuss your idea and possibly coordinate with others in the community.

CRA Board of Directors

James Allan, University of Massachusetts, Amherst
Nancy Amato, University of Illinois, Urbana-Champaign
Rachel Bellamy, IBM Research
Carla Brodley, Northeastern University
Greg Byrd, North Carolina State University
Lorrie Cranor, Carnegie Mellon University
Andrea Danyluk, Williams College
Susan Davidson, University of Pennsylvania
Leila De Floriani, University of Maryland
Eric de Sturler, Virginia Tech
Stephanie Forrest, Arizona State University
Michael Franklin, University of Chicago
Dan Grossman, University of Washington
Mary Hall, University of Utah
Susanne Hambrusch, Purdue University
Kim Hazelwood, Facebook
Mark Hill, University of Wisconsin-Madison
Ayanna Howard, Georgia Tech
Charles Isbell, Georgia Tech
Kate Larson, University of Waterloo
Ran Libeskind-Hadas, Harvey Mudd College
Kathryn McKinley, Google
Greg Morrisett, Cornell University
Brian Noble, University of Michigan
Rachel Pottinger, University of British Columbia
Chris Ramming, VMWare
Penny Rheingans, University of Maine
Barbara Ryder, Virginia Tech
Vivek Sarkar, Georgia Tech
Shashi Shekhar, University of Minnesota
Divesh Srivastava, AT&T Labs-Research
Jaime Teevan, Microsoft/University of Washington
Marvin Theimer, Amazon
Alexander Wolf, University of California, Santa Cruz
Ellen Zegura, Georgia Tech

CRA Board Officers

Ellen Zegura, Chair
Nancy Amato, Vice Chair
James Allan, Treasurer
Ran Libeskind-Hadas, Secretary

CRA Staff

Nicole Beck, Reimbursement Specialist
Andrew Bernat, Executive Director
Betsy Bizot, Director of Statistics and Evaluation
Daniela Cárdenas, Program Associate
Sandra Corbett, Program Manager
Khari Douglas, Senior Program Associate, CCC
Ann Drobnis, Director, Computing Community Consortium
Alejandra Guzman, Program Associate
Jill Hallden, Grant Specialist
Peter Harsha, Director of Government Affairs
Sabrina Jacob, Administrator
Brian Mosley, Policy Analyst
Erik Russell, Director of Programs
Shar Steed, Communications Specialist
Burçin Tamer, Director, Center for Evaluating the Research Pipeline
Heather Wright, Associate Director, Center for Evaluating the Research Pipeline
Helen Wright, Senior Program Associate, Computing Community Consortium
Evelyn Yarzebinski, CERP Research Associate

Column Editor

Expanding the Pipeline
Patty Lopez, Intel

Professional Opportunities

Alfred University

Assistant Professor in Computer Science

Alfred University invites applications for a tenure-track position in Computer Science at the Assistant Professor level beginning August, 2020. The individual hired for this position will be given the opportunity to make significant contributions to the development of an emergent computer science major.

For details about qualifications, responsibilities, application materials, and Alfred University's equal employment opportunity policy, please visit *https://www.alfred.edu/jobs-at-alfred/index.cfm*.

Binghamton University – State University of New York (SUNY)

SUNY Empire Innovation Professor (Full Professor) - Thomas J. Watson School of Engineering and Applied Science

The Thomas J. Watson School of Engineering and Applied Science at Binghamton University (SUNY) invites applications for a senior faculty position at the full professor level, with a possible start date of Fall 2020. We invite prominent leaders in the interdisciplinary fields of *artificial intelligence (AI)*, *machine learning (ML)*, and *data science* that are integrated into the *healthcare* applications. This position was made possible by the SUNY Empire Innovation Program, and will be the *first* of the three cluster hires in "Artificial Intelligence and Machine Learning for Healthcare Systems" over the next two years. All three faculty will have the title, "SUNY Empire Innovation Professor."

The successful candidate will be expected to present a clear vision for leading the University's existing research and industrial collaborations, which encompass computer vision and imaging, cybersecurity, nursing, biomedical and pharmaceutical sciences, data science, computer science, systems science, statistical learning, network science, mathematical programming, informatics and real-time system control, and health systems engineering. This candidate will also lead the subsequent search for two senior faculty positions (at the associate professor level) during the 2020-2021 academic year. These hires will have a direct role in the growth of the University's education programs related to artificial intelligence. The State University of New York and Binghamton University are equal opportunity employers. All qualified applicants are encouraged to apply at: *https://binghamton.interviewexchange.com/jobofferdetails.jsp?JOBID=120015*.

Boston University

Full-time Lecturer

The Department of Computer Science invites applications for a full-time non-tenure track lecturer position beginning Fall 2020 (subject to final budgetary approval). Qualifications required of all applicants include a PhD (or at least a Master's) degree in Computer Science or related discipline, and a commitment to teaching excellence. The position requires teaching foundational courses in computer science, mainly at the undergraduate level, in areas such as programming, computer systems, algorithms and data structures, software engineering, data science, and security.

The Department consists of a diverse group of 31 tenured and tenure-track faculty members, and offers programs leading to B.A., M.S., and Ph.D. degrees. The Department has research strengths in data mining, databases, graphics, image and video computing, machine learning, natural language processing, networking, distributed systems, operating systems, programming languages, formal methods, real-time systems, security and cryptography, and theory of computation and algorithms. In addition, members of the Department collaborate closely with faculty across the university including mathematics and statistics, computer engineering, mechanical engineering, biology, earth and environment, economics, law, medicine, among others. Candidates are encouraged to demonstrate throughout their application their attention to diversity and inclusion as these topics relate to teaching and engagement within the academic environment. Review of applications will begin immediately and continue on a rolling basis. Additional information about the Department is available at *http://www.bu.edu/cs*. Qualified applicants should apply at *https://academicjobsonline.org/ajo/jobs/15902*. Review of applications will begin on April 1, 2020.

Boston University expects excellence in teaching and in research and is committed to building a culturally,

racially, and ethnically diverse scholarly community (*https://www.bu.edu/info/about/diversity/*). Boston University is an AAU institution with a rich tradition dedicated to inclusion and social justice. We are proud that we were the first American university to award a Ph.D. to a woman and of our record of inclusiveness. The College of Arts and Sciences includes diversity as one of five strategic goals. We are dedicated to increasing the participation of all talented students and are committed to the pursuit of Computer Science by underrepresented groups at BU and beyond. 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.

Brandeis University

Lecturer or Assistant Professor of Computer Science

The Computer Science Department at Brandeis University invites applications for a full-time faculty position at the rank of lecturer or assistant professor (outside the tenure structure), to start in the Fall Semester of 2020. The position, which carries the equivalent of a five-course teaching load, will have an initial appointment of up to three years and the potential for renewal. We seek candidates who are able to teach a wide range of first- and second-year computer science courses, as well as occasional upper-level and graduate electives. The successful candidate must be committed to excellence in undergraduate teaching and is expected to participate fully in the academic life of the department, including advising, participating in faculty meetings, supporting undergraduate research and other activities relevant to our teaching mission.

A master's degree in computer science is required; a Ph.D. is preferred. Candidates should be able to demonstrate excellence in teaching computer science at the university level. Salary is commensurate with qualifications.

The Computer Science department has 13 tenure-line and 5 contract faculty members with diverse research and teaching interests. Besides offering bachelors, masters, and Ph.D. degrees in CS, the department houses the Linguistics program and offers a vibrant nationally recognized master's program in Computational Linguistics.

At Brandeis, we believe that diversity, equity, and inclusion are essential components of academic excellence. Brandeis University is an affirmative action, equal opportunity employer that is committed to creating equitable access and opportunities for applicants to all employment positions. Because diversity, equity, and inclusion are at the core of Brandeis' history and mission, we value and are seeking candidates with a variety of social identities, including those that have been underrepresented in higher education, who possess skills that spark innovation, and who, through their scholarly pursuits, teaching, and/or service experiences, bring expertise in building, engaging and sustaining a pluralistic, interconnected, and just campus community.

Applicants must submit a CV, teaching statement, and research statement (or a statement describing other significant professional activities beyond classroom instruction) to AcademicJobsOnline at *https://academicjobsonline.org/ajo/jobs/15974*. Candidates must also arrange for at least three letters of reference to be submitted through the AJO website. First consideration will be given to applications received by 31 March 2020. Questions about the position should be directed to *compsci@brandeis.edu*.

Cardiff Metropolitan University, UK

20 Lecturers in Computer Science and Engineering

https://www.jobs.ac.uk/job/BYA828/lecturer

Clemson University

Lecturer- School of Computing

The School of Computing at Clemson University is enjoying record popularity with our undergraduate majors, and our teaching faculty have multiple ways in which to serve those students and

work in a team environment. We invite applicants for multiple Lecturer positions beginning August 2020 or January of 2021. Responsibilities will include teaching (primarily for undergraduate classes), student advising, curriculum development, and other typical faculty responsibilities. Teaching assignments will be determined based on school needs and candidate interests. Lecturers are eligible for promotion to the ranks of Senior Lecturer and Principal Lecturer. Candidates holding the Ph.D. in Computer Science or a related field are preferred.

More information and application procedures may be found at *https://www.clemson.edu/cecas/departments/computing/connect/lecturer2020.html*

Colorado State University

Cyber Security Research and Education Associate/Research Associate III

The Department of Computer Science at Colorado State University (CSU) invites applications for a half-time associate who manages, operates and administers the Cyber Security center's computing infrastructure for education and research. For full consideration, applications must be submitted by February 10, 2020.

For a complete position announcement including minimum qualifications and application instructions, please see *http://jobs.colostate.edu/postings/74107*.

CSU is an EO/EA/AA employer and conducts background checks on all final candidates.

East Carolina University

Teaching Instructor/Teaching Assistant Professor, Department of Computer Science

The Department of Computer Science, a unit of the ECU College of Engineering and Technology seeks a nine-month, fixed-term faculty member, to start in the Fall 2020 semester, to teach, advise students, and provide department-level service. The ideal candidate will have experience teaching at the college or university level and have credentials to teach both undergraduate computer science and software engineering courses.

Visit job posting at *https://ecu.peopleadmin.com/postings/34563* for more detailed information and to apply.

East Carolina University is an Equal Opportunity/Affirmative Action Employer.

Embry-Riddle Aeronautical University

Tenure-Track Assistant Professor of Data Science

The Department of Mathematics at Embry-Riddle Aeronautical University's Daytona Beach campus invites applications for tenure-track Assistant Professor in Data Science, starting Fall 2020.

The primary responsibility will be to teach and develop courses in the Masters in Data Science (MSDS) program. Duties include teaching graduate-level courses for the MSDS program including a High-Performance Computing with Big Data Analytics course and mentoring graduate students and undergraduate seniors on their research and capstone projects. Candidate must have expertise in batch and stream processing of Big Data with distributed shared memory and file

Georgia Southern University invites applicants for the following vacancy on the Statesboro campus:

Tenure-Track Assistant Professor - Department of Computer Science

Georgia Southern University's Department of Computer Science invites applications for two tenure track Assistant Professor positions.

The full text advertisement, including information about the department, faculty, and the complete position announcement with all qualifications and application instructions, is available at

https://apptrkr.com/1791497

Screening of applications begins February 10, 2020, and continues until the position is filled.

Georgia is an open records state. Georgia Southern is an AA/EO institution. Individuals who need reasonable accommodations under the ADA to participate in the search process should contact the Vice Provost.

systems; experiences with Apache Spark streaming and Kafka streaming is a plus. All tenured and tenure-track faculty members in the department are expected to be active in research and scholarly production. The candidate must hold Ph.D. Degree in computer science, computational mathematics, data science or a related field (by the time of appointment) with some teaching experience.

For more information, please visit *http://careers.erau.edu*, requisition #200008.

Indiana University

Senior Project Coordinator/ Research Scientist

The Observatory on Social Media at Indiana University has an open position for a research scientist to join the management team as Senior Project Coordinator (SPC). Our mission is to study the media and technology networks that drive the online diffusion of dis/mis/information.

The SPC will lead research in computational social science and data journalism; coordinate outreach and collaborations with academic, technology, and media partners; supervise students, and help raise research funds.

A strong research record and coding, analytical, communication, and writing skills are required. The appointment is to start as soon as possible. The salary is competitive and benefits are generous. For more information or to apply, visit: *cnets.indiana.edu/blog/2020/01/10/osome-research-scientist-wanted/*

Johns Hopkins University

Research Scientist

The Human Language Technology Center of Excellence (HLTCOE) at Johns Hopkins University seeks to hire outstanding senior, junior, and post-doc researchers in all areas of speech and language processing. Located adjacent to Johns Hopkins' beautiful Homewood campus in Baltimore, Maryland, the HLTCOE conducts long-term and applied research on fundamental application-driven challenges. Its staff scientists publish widely in premier venues, and, through close collaboration with members of the Center for Language and Speech Processing (CLSP), make Johns Hopkins one of the world's largest and growing academic research groups in the field.

Description:

A good candidate will have a strong general background and publishing experience in one or more of the following tasks:

- Characterizing Communicants
- Information Extraction
- Information Retrieval
- Machine Learning
- Machine Translation
- Multi-Lingual Algorithms
- Parsing and Tagging
- Speaker and Language Identification
- Speech Recognition
- Spoken Language Applications

Applicants should hold a Ph.D. or a master's degree (with commensurate experience) in computer science, electrical engineering, linguistics, cognitive science, or a closely related field.

Why HLTCOE?

Research scientist positions at the HLTCOE bring together many of the best aspects of academic and industrial research. Staff scientists are charged with setting a research agenda in line with the Center's goals, working with other members of the HLTCOE research team, and publishing results. If they wish, researchers also have the opportunity to apply for external funding, to work with and advise students at CLSP, and to teach at Johns Hopkins.

Centrally located on the east coast, Baltimore is affectionately known as Charm City because of its friendly people, thriving arts scene, and multitude of restaurants and pubs. The center of the city is the Inner Harbor, home to features such as the National Aquarium, historic Federal Hill, and two professional sports teams. It is famous for its crab cakes, and rich in the arts, from a variety of museums to children's centers and a symphony orchestra. Just outside the city are abundant natural settings great for hiking, biking, and other outdoor adventures. Baltimore is part of the east coast corridor, just a short train, bus, or car ride away from Washington D.C., Philadelphia, and New York. Best of all, Baltimore is affordable: many Hopkins employees own homes in adjacent

neighborhoods, close enough to the University to walk or bike to work or to take public transportation.

In addition to excellent medical, dental and vision insurance, JHU has a variety of other generous benefits* including:

- 50% tuition grant for employee's children enrolled in any full-time, accredited, undergraduate, degree-grant institution;
- Up to $17,000 towards the closing cost of new home in Baltimore City and;
- University-made contributions of 12% of your base salary into your JHU 403(b) retirement plan.

*For more detailed information regarding benefits, please visit:

hr.jhu.edu/benefits-worklife/

Applying

To apply, please visit *https://apply.interfolio.com/39944*

U.S. citizenship is required.

Applications will be considered in batches on a rolling basis until positions are filled.

Marquette University

Northwestern Mutual Data Science Professor for the Department of Computer Science

The Department of Computer Science invites applications for a Northwestern Mutual Data Science Professor of Computer Science. We are particularly interested in candidates whose area of expertise addresses one of the many facets of the broadly defined areas in data science and big data. The Department highly regards and encourages interdisciplinary research and grants in both academia and industry. Recently, several faculty of the Department have received large million-dollar grants from Govt. agencies. In addition, the faculty of Department has a strong record of accomplishment getting grants from industry.

The Northwestern Mutual Data Science Institute (NM DSI) is a $40 million partnership between Northwestern Mutual, the University of Wisconsin Milwaukee and Marquette University that seeks to create a world-class institute to transform the world through the power of data science. It is engaged in research, education, professional and academic career development, fostering innovation, and community impact. The mission of the institute is strongly aligned with the strategic goals of Marquette University. The institute is also aligned with regional commercial and academic efforts to advance technology in Milwaukee through programs in four key areas: talent, innovation, identity, and community.

Our campus is located in downtown Milwaukee, WI, a racially diverse city with convenient access to many government and private and nonprofit agencies, and ripe with opportunity for community engagement and research. Find out more about the city at *http://choosemilwaukee.com/*. Marquette University, an EOE that values diversity, is a Jesuit, Catholic university with a wide range of undergraduate and graduate programs. We seek candidates who understand and respect the University's Mission Statement, which can be found at *https://www.marquette.edu/about/mission.php*. Candidates from underrepresented groups are especially encouraged to apply.

For more information, or to apply for the position, please see the listing on Marquette University's electronic recruitment system:

http://employment.marquette.edu/postings/12615

Please direct inquiries to: Dennis Brylow (*dennis.brylow@marquette.edu*) Chair, Computer Science Faculty Search Committee

The Medical College of Wisconsin

Data Science Position

The Division of Biostatistics at the Medical College of Wisconsin (MCW) is seeking to fill an open-rank tenure-track faculty position in Data Science beginning May 1, 2020.

Responsibilities include teaching and mentoring graduate students, conducting methodological research in data science, machine learning, and/or AI, and engaging in collaborative research with the Center of International Blood and Marrow Transplant Research (CIBMTR), which houses an international clinical outcomes database in transplantation. Ph.D. in Data Science

related field, including Computer Science, Bioinformatics or Medical Informatics, Biostatistics or Statistics, is required.

To apply, email a cover letter, CV, research statement, graduate transcripts (if a recent graduate) and three reference letters to *jward@mcw.edu*.

Moravian College

Director of Data Science Programs

Moravian College, a member of The New American Colleges and Universities (NAC&U) located in historic Bethlehem, Pennsylvania invites applications for the director of Data Science, who will develop new programs at the undergraduate and graduate levels. With an established undergraduate Computer Science program and a Masters-level graduate program in Predictive Analytics, along with established relationships with regional health care, pharmaceutical, and insurance companies, the new programs will target traditional undergraduates and adult learners who wish to enter the field from other careers. Nestled in the Lehigh Valley, historic Bethlehem offers the charm of a small historic city in a valley of over one million people, 2 hours from New York City and 1 hour from Philadelphia.

Moravian College, a member of The New American Colleges and Universities (NAC&U) located in historic Bethlehem, Pennsylvania invites applications for the director of Data Science, who will develop new programs at the undergraduate and graduate levels. With an established undergraduate Computer Science program and a Masters-level graduate program in Predictive Analytics, along with established relationships with regional health care, pharmaceutical, and insurance companies, the new programs will target traditional undergraduates and adult learners who wish to enter the field from other careers.

Nestled in the Lehigh Valley, historic Bethlehem offers the charm of a small historic city in a valley of over one million people, 2 hours from New York City and 1 hour from Philadelphia.

Apply here

NEC Laboratories America, Inc

Researcher - Data Science

NEC Laboratories America, Inc. (*http://www.nec-labs.com/*) conducts research in support of NEC's US and global business. Our lab has a broad research program that covers many areas and maintains a balance of fundamental and applied research.

The Data Science and System Security Department aims to build novel big data solutions and service platforms that simplify complex systems management, and to develop new information technology that supports innovative applications, from big data analytics to the Internet of Things. Our research is both experimental and theoretical, covering many domains in data science and artificial intelligence, such as: time series mining, graph mining, deep learning, text mining, anomaly detection, signal processing, and streaming processing. The goal of our research is to fully understand the dynamics of big data from complex systems, retrieve patterns to profile them and build innovative solutions to help end user managing those systems. We have built a number of analytic engines and system solutions to process and analyze big data and support various applications in detection, prediction and optimization. Our research leads to both award-winning NEC products and publications in top conferences.

Our group is looking for researchers to work in the areas of artificial intelligence, machine learning or data mining. The ideal candidate must have expertise in one of the above areas, and can develop algorithms to analyze massive data and build innovative applications. He/she must have a PhD in CS/CE with a strong publication record in at least one of the following areas:

- Machine learning and AI (especially deep neural networks)
- Data mining and statistical learning
- Time series analysis and prediction
- Text mining, natural language processing and information retrieval
- Graph and information network mining
- Large scale optimization and learning
- Signal processing, image processing and computer vision

NEC Labs is located in Princeton, NJ, home of Princeton University and one of New Jersey's most beautiful and idyllic towns. The area offers many exciting cultural, entertainment and outdoor activities. The office is minutes away from Princeton University and an hour from New York, Philadelphia, and the Atlantic Ocean. 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=2829240*.

NEC Labs

Researcher - Computer Security

NEC Laboratories America, Inc. (*http://www.nec-labs.com/*) conducts research in support of NEC's US and global business. Our lab has a broad research program that covers many areas and maintains a balance of fundamental and applied research.

The Data Science and System Security Department has been developing innovative security solutions and grown NEC's business. We also provide a vibrant environment that has produced very strong research results. We embrace the opportunities to leverage big-data and AI technologies to improve security. We strongly value interdisciplinary research. We have ongoing projects about software security, cloud security, IoT security and 5G network security. Our group brings together experts in security, operating systems, networking, distributed systems, and data mining. Our research leads to both award-winning NEC products/solutions and numerous publications in top conferences such as NDSS, CCS, and USENIX Security.

Our group is looking for researchers in the areas of computer security. The ideal candidate must have expertise in the design, implementation, and deployment of large scale distributed systems, networks or security platforms. He/she must hold a PhD in Computer Science or Engineering and have a strong publication or systems building record in at least one of the following areas:

- Software, IoT, embedded system, ICS, SCADA, automotive, web security, critical infrastructure security
- Software vulnerability and bug discovery and patch
- SecDevOps, container security, vulnerability detection in Docker and Kubernetes systems
- Software, kernel, and firmware fuzzing
- Static/dynamic program analysis and domain specific language design
- Binary program analysis using angr or BAP for vulnerability and bug detection
- Application of deep learning and NLP techniques to program analysis
- Web vulnerability analysis, log analysis of web applications, and network traffic analysis
- Recent hardware features such as Intel SGX, Intel PT, ARM TrustZone, Intel MPX
- Real-world hacking/pen test experiences, such as experiences with metasploit
- Attack forensics, causality/dependence analysis on forensic graph
- Blockchain, smart contract, hyperledger
- Strong system building skills

NEC Labs is located in Princeton, NJ, home of Princeton University and one of New Jersey's most beautiful and idyllic towns. The area offers many exciting cultural, entertainment and outdoor activities. The office is minutes away from Princeton University and an hour from New York, Philadelphia, and the Atlantic Ocean. 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=2829242*.

New Mexico State University

Post Doctoral Researcher

Post-Doctoral Position at the confluence of Cybersecurity, Smart Grids, Artificial Intelligence, and Internet of Things

Two postdoctoral research associate positions are available immediately in the Knowledge, Logic, and Advanced Programming Lab (one position) headed by Drs. Enrico Pontelli and Son Tran (website: *https://www.cs.nmsu.edu/klap*) at the Computer Science Department of New Mexico State University, USA. The positions are funded by a National Science Foundation

Smart Grid Research Center grant and the CREST Interdisciplinary Center of Research Excellence in Design of Intelligent Technologies for Smart Grids (iCREDITS). The postdoctoral research associate will work with experienced researchers in the area of artificial intelligence, smart grid and power systems, and machine learning with Ph.D., MS, and UG students.

The ideal candidate is expected to have solid knowledge in reasoning about knowledge and actions, automated planning, and constraint optimization in multi-agent systems. The research will focus on epistemic multi-agent reasoning and planning as well as its application in smart grid domains and cyber-physical systems.

Each candidate will also mentor a lab of 4-5 Ph.D. and some MS and undergraduate students. The postdoctoral position is for 1 year with the possibility of renewal.

NMSU is an equal opportunity and affirmative action employer committed to assembling a diverse, broadly trained faculty and staff. Women, minorities, people with disabilities, and veterans are strongly encouraged to apply.

Please upload your CV, three representative publications, and name of two recommenders at:

http://jobs.nmsu.edu/postings/37677

http://jobs.nmsu.edu/postings/37676

North Carolina State University

Director of Cybersecurity Education

The Department of Computer Science at North Carolina State University (NC State) invites applications for a Director of Cybersecurity Education starting July 2020. This is a non-tenure-track position. Candidates must have a minimum of an MS degree, Ph.D. preferred, in Computer Science or related field along with extensive experience and contacts in industry/government. Candidates should demonstrate a very good reputation and commitments to cybersecurity education and industrial relationships.

The Director of Cybersecurity Education will oversee the undergraduate cybersecurity education initiatives in the department. These initiatives include a Cybersecurity Concentration for the Bachelor of Science degree in Computer Science as well as the formation of a Community of Practice in cybersecurity. The Director will be expected to highly engage with industry to identify, recruit, and review instructors for short courses, as well as mentors for student projects, and placement for internships and full-time positions. The Director will also be expected to be highly engaged with students, building on existing student group initiatives (e.g., Hackpack – *https://hackpack.club*) and developing new opportunities for students. The Director is expected to actively pursue both industry and government grants (e.g., Cybercorps Scholarships for Service, NSF SaTC EDU) to ensure sustained support for the position and the large educational initiative. The position will exist within the Secure Computing Institute at NC State (*https://sci.ncsu.edu*) and report to the institute co-directors.

The Department of Computer Science at NC State is one of the oldest and largest CS departments in the country. It is part of the university's College of Engineering. NC State is located in Raleigh, the capital of North Carolina, which forms one vertex of the world-famous Research Triangle, including Research Triangle Park (RTP). RTP has one of the most diverse industrial bases in the world and is a center of excellence for technology and science. The Research Triangle area is routinely recognized in national surveys as one of the best places to live in the U.S. We enjoy outstanding public schools, affordable housing, and great weather, all in the proximity of both mountains and the seashore.

Applications will be reviewed as they are received. The positions will remain open until suitable candidates are identified. Applicants are encouraged to apply by March 15, 2020. Salary will be commensurate with qualifications. Applicants should submit the following online at *http://jobs.ncsu.edu* (reference position number 107911, or use the quick link: *http://jobs.ncsu.edu/postings/127722*): cover letter, curriculum vitae, statement of teaching and education philosophy, a statement of service, and names and complete contact information of three references, including email addresses and phone numbers. Candidates can obtain information

Assistant/Associate/Full Teaching Professor Electrical and Computer Engineering - Robotics

About Northeastern:
Founded in 1898, Northeastern is a global research university and a world leader in experiential learning. The same commitment to connecting with the world drives our use-inspired research enterprise. The university offers a comprehensive range of undergraduate and graduate programs leading to degrees through the doctorate in nine colleges and schools. Our campuses in Charlotte, N.C., San Francisco, Seattle, and Toronto are regional platforms for undergraduate and graduate learning and collaborative research. Northeastern pursues advanced research in security and materials at the Innovation Campus in Burlington, Massachusetts, and in coastal sustainability at the Marine Science Center in Nahant, Massachusetts.

About the Opportunity:
The Department of Electrical and Computer Engineering at Northeastern University invites applications for Assistant/Associate/Full Teaching Professor with a focus on Robotics.

Responsibilities:
Northeastern University's Department of Electrical & Computer Engineering seeks outstanding candidates for the position of Assistant/associate/full teaching professor with a focus on Robotics. This is a full-time, benefits-eligible, non-tenure-track position. Appointments are made on an annual 8-month basis, with salary commensurate with experience. The position of Assistant Teaching professor entails educational interaction with students in roles including, but not limited to, traditional instruction (lecture courses, lab courses), curriculum development, and student advising. The main responsibility of this position is teaching courses related to robotics, including kinematics, dynamics, and control of robots, design of microprocessor-based control systems, sensory devices, output actuators, numerical methods, state estimation, control, perception, localization and mapping, motion planning, and the ROS (Robotic Operating System) environment. Also expected to teach courses in embedded systems, digital logic design, computer organization and/or programming.

The annual teaching course load is six courses, with the potential for teaching more than one section of a course in the same semester, over Fall and Spring semesters. Courses may be at both the undergraduate and graduate levels.

Qualifications:
A PhD in Computer Engineering, Electrical Engineering, Computer Science, teaching experience, is required. Candidates should have demonstrated experience robotics and related subareas. At least 2 years' experience in teaching at the college/university level is recommended. Excellent written and oral communication skills are required. Industrial experience is desirable, but not required.

Application should include a cover letter, CV, teaching statement, 3 references. A sample syllabus from a previously taught class is optional but recommended.

Salary Grade: FAC

Additional Information:
Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion.

All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, religion, color, national origin, age, sex, sexual orientation, disability status, or any other characteristic protected by applicable law.

To learn more about Northeastern University's commitment and support of diversity and inclusion, please see www.northeastern.edu/diversity.

To apply, visit **https://apptrkr.com/1784882**

about the department and its research programs, as well as more detail about the position advertised here at *http://www.csc.ncsu.edu/*. Inquiries may be sent via email to: *group-csc-security-edu-search@ncsu.edu*.

NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran.

Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919-515-3148.

Final candidates are subject to criminal & sex offender background checks. Some vacancies also require credit or motor vehicle checks. If the highest degree is from an institution outside of the U.S., final candidates are required to have their degree verified at www.wes.org. Degree must be obtained prior to start date.

NC State University participates in E-Verify. Federal law requires all employers to verify the identity and employment eligibility of all persons hired to work in the United States.

Oberlin College and Conservatory

Visiting Assistant Professor of Computer Science

The Computer Science Department at Oberlin College invites applications for a two-year full-time, non-continuing faculty position beginning the fall of 2020, and will carry the rank of Visiting Assistant Professor.

The incumbent will teach five courses each year with labs counting towards this total, at all levels of undergraduate Computer Science. There will be opportunities for the incumbent to teach in their area of specialty.

To be assured of consideration, all applications must be submitted by, February 6, 2020, to *https://academicjobsonline.org*, but review of applications will continue until the position is filled. A complete application will be comprised of 1) a Cover Letter describing your teaching, scholarship and mentorship highlighting how these support a diverse, equitable, and inclusive learning environment; 2) a Curriculum Vitae; 3) a Teaching statement that details your plan to reach a broad spectrum of learners; 4) Unofficial graduate transcripts, and 5) Letters of Reference from three recommenders*,

*By having recommenders provide these letters you agree that we may contact them.

Questions about the position can be addressed to the Chair of Computer Science: Robert Geitz *bob.geitz@oberlin.edu* or 440-775-8386.

ATTENTION APPLICANTS*** All application materials must be submitted electronically through Academic Jobs.org site using this link: *https://academicjobsonline.org/ajo/jobs/15772*

Tenure-Track Faculty in Data Sciences

The College of Information Sciences and Technology (IST) at The Pennsylvania State University invites applications for an Assistant Professor, tenure-track faculty position in Data Sciences. We are interested in a broad range of areas related to data science, and we are particularly interested in applicants with strong interdisciplinary research interests. Areas of interests include, but are not limited to artificial intelligence, computational social science, cognitive science, data management, data mining, data science for social good, machine learning, and natural language processing. Applicants must have a strong interest in engaging in substantive interdisciplinary research with collaborators in other disciplines. We welcome applications from exceptional candidates with a variety of disciplinary backgrounds (e.g., communication, cognitive science, economics, informatics, political science, sociology, statistics, physics, and computer science). Successful candidates for the Assistant Professor position should have a Ph.D. in a relevant field (e.g. Data Sciences, Computer Science, Artificial Intelligence, Machine Learning, Informatics) prior to beginning employment at Penn State and should demonstrate strong research potential and commitment to interdisciplinary research and education. All candidates must pass a background check before beginning employment. Successful candidates will be expected to develop outstanding interdisciplinary research and contribute to graduate and undergraduate education and training in the data sciences. IST brings together researchers that use information and computation to benefit our understanding of how people work and live together in society, how communication networks can be improved and secured, and how humans can better interface with these networks. Our work is grounded in theory and powered by data and computation. The college offers a highly collaborative interdisciplinary research environment, strong research programs in data sciences, human-computer interaction, information security and privacy, and socio-technical systems, a strong Ph.D. program, and several highly successful undergraduate programs (including one in data science). IST faculty and students enjoy extensive opportunities for interdisciplinary collaborations with colleagues from a wide range of disciplines as well as a number of university-wide cross-cutting centers and institutes. Inquiries about the position may be directed to mailto:facultyrecruiting@ist.psu.edu.

Apply online at **http://apptrkr.com/1785581**

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to http://www.police.psu.edu/clery/ which will also provide you with detail on how to request a hard copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.

Queens College of the City University of New York

Assistant Professor (or higher) in Computer Science

The Department of Computer Science at Queens College of CUNY is accepting applications for a tenure-track Assistant Professor (or higher) position starting Fall 2020. Consult *http://www.cs.qc.cuny.edu* for further information.

Rice University

Executive Director, Ken Kennedy Institute

The Ken Kennedy Institute at Rice University was established in 1986 and is dedicated to the advancement of research in the fields of computing, data science and information technology. From its roots in computer science, electrical and computer engineering, computational and applied mathematics, and statistics,

the Institute has grown to encompass 180 faculty spanning engineering, natural sciences, humanities, social sciences, business, architecture and music. The Institute fosters the development of fundamental and applied research and assists multidisciplinary, interdisciplinary and transdisciplinary efforts challenging traditional disciplinary limits.

In collaboration with the director of the Institute and its advisory board, the executive director develops plans to achieve the Institute's mission and strategic priorities and is responsible for directing the implementation of these plans. The executive director develops, initiates, and monitors all business development activities, to include (but not limited to): planning to align resources with the Institute's mission and strategy; providing administrative management and leadership for the Institute's research and educational programs; overseeing the Institute's administrative workload and programmatic activities; nurturing internal and external contacts and relationships for continued and expanded support of the Institute's programs; building sustainable relationships with the institute's advisory board, University leaders, community, domestic and international experts associated with a wide variety of disciplines relating to technologies on data and computing; attracting new members; serving as a key liaison with internal and external constituents including industry, foundations and government; identifying, qualifying and developing potential funding sources and opportunities that will bring additional research funding to the Institute and the broader Rice community; and writing proposals to leverage these opportunities.

Details about the Institute may be found at *https://k2i.rice.edu/*

For more information and to apply, visit *https://jobs.rice.edu/postings/22568*

Equal Opportunity Employer – Females/Minorities/Veterans/Disabled/Sexual Orientation/Gender Identity

Sacred Heart University

Full Time Faculty in Computer Science and Engineering

The School of Computer Science & Engineering at Sacred Heart University in CT, seeks applicants for multiple full-time positions. PhD in CS or related field is required.

Go to: *http://bit.ly/shu-scse-2020* for position descriptions and next steps.

Reviews will start in February.

Sacred Heart University is an equal opportunity employer.

Skidmore College

Visiting Assistant Professor/Lecturer - Computer Science

The Skidmore College Department of Computer Science seeks a qualified full-time computer science instructor for Fall 2020 and Spring 2021. Courses assignments have yet to be determined. The teaching load is four or five undergraduate courses per year, one of two of which will have associated three-hour laboratory sessions. The Department currently has four tenure-track faculty positions and one visiting lecturer.

The college encourages candidates from under-represented groups and individuals who have demonstrated experience with diverse populations who can contribute to the diversity and excellence of the academic community through their research, teaching, and/or service to apply.

Minimum Qualifications - MA or MS in Computer Science

Preferred Qualifications - PhD in Computer Science or related field and teaching experience

EEO Statement

Skidmore College is committed to being an inclusive campus community and, as an Equal Opportunity Employer, does not discriminate in its hiring or employment practices on the basis of race, color, creed, religion, gender, age, national or ethnic origin, physical or mental disability, military or veteran status, marital status, sex, sexual orientation, gender identity or expression, genetic information, predisposition or carrier status, domestic violence victim status, familial status, dating violence, or stalking, or any other category protected by applicable federal, state or local laws.

Special Instructions to Applicant

To be considered for this position, please fill out an online application and attach the following documents: cover letter, cv and list of three references to include name, title, company, email address and telephone number of three professional references.

All documents must be attached through the application system. If you encounter difficulty, please contact Human Resources at: *careers@skidmore.edu* or 518 580.5800

https://careers.skidmore.edu/postings/3802

St. Cloud State University

Computer Science and Information Technology Department

The Computer Science and Information Technology (CSIT) department at St. Cloud State University (SCSU) invites applications for a tenure-track Assistant/Associate Professor position in Cybersecurity with preferred research emphases in one or more of the following specializations: Internet of Things (IoT) computing, Safe Computing, Data Security and Privacy, Computer and Software Security, Human Behavior security, Cloud computing Security, Mobile Applications Security, Online Scam Detection. The successful candidate will perform all academic activities related to the mission of the institution, mainly in the area of Cybersecurity.

Application review begins mid-February 2020; position open until filled.

Application should include Cover Letter, Teaching Statement, Research Statement, Resume/CV, Contact information for three references, and Copies of Transcript (s).

Full ad: *https://stcloudstate.peopleadmin.com/postings/search?query=&query_v0_posted_at_date=&l309%5B%5D=2&commit=Search*

Stony Brook University

Lecturer, Assistant/Associate/Full Professor of Practice

Stony Brook University, home to many highly-ranked graduate research programs, is located 60 miles from New York City on Long Island's scenic North Shore. It is a member of the prestigious Association of American Universities (AAU). The Department of Computer Science is one of the largest departments in campus and offers BS, MS and PhD degrees in Computer Science and BS degree in Information Systems. The BS program in Computer Science is ABET-accredited. The department currently has over 50 faculty members and 2000 students and is expected to grow further in the next several years. In 2015 the department has moved to a new state-of-the-art 70,000 sq ft building. The department values diversity and seeks candidates who can contribute to a welcoming climate for all students. We strongly encourage qualified women and minority candidates to apply. Detailed information on the department can be found on the Department website: *http://www.cs.stonybrook.edu*.

Descriptive Title: Lecturer, Assistant/Associate/Full Professor of Practice

REF#: F-9934-20-01-F

Department: Computer Science

Campus: Stony Brook West Campus/HSC

Salary: Commensurate with experience

Required Qualifications: MS or Ph.D. in Computer Science or related field.

Preferred Qualifications: Demonstrated history of excellence in research and teaching at the graduate and undergraduate levels.

Responsibilities & Requirements: The selected candidate should have a strong commitment to teaching. The candidate is expected to teach introductory and advanced CS undergraduate courses, and possibly graduate courses, depending on experience and interests. Engaging in research is encouraged but not mandatory.

Special Notes: This is a non-tenure track position. FLSA Exempt position, not eligible for the overtime provisions of the FLSA. Internal and external search to occur simultaneously. Anticipated start date: Fall 2020. Applications will be accepted until the position is filled. The selected candidate must successfully clear a background investigation.

Application Procedure: Those interested in this position should submit a State Employment Application, cover letter and resume/CV to: *https://hiring.cs.stonybrook.edu/*. Electronic

submission is highly preferred. Any questions should be directed to *hiring@cs.stonybrook.edu*.

Alternatively, Mail-In Applications to:

Search Chair
Lecturer, Assistant/Associate/Full Professor of Practice Search
Department of Computer Science
New Computer Science Building, Room 203
Stony Brook University
Stony Brook, NY 11794-2424

For a full position description or application procedures, visit:

https://www.cs.stonybrook.edu/about-us/career/lecturer

Syracuse University

Full-Time Assistant/Associate Teaching Professor

Job Description

Syracuse University's Department of Electrical Engineering and Computer Science (EECS) invites applications for a position at the rank of Assistant Teaching Professor or Associate Teaching Professor to begin in August 2020. Credentials and experience will determine the rank and salary. Teaching responsibilities will include a range of undergraduate and graduate courses in Computer Science and Computer Engineering, mainly focusing on operating systems and computer organizations. Ability to teach functional programming is a plus.

Qualifications

Candidates should have a doctoral degree in Computer Science or a closely related discipline. However, exceptional candidates with a Master's Degree in Computer Science or a relevant area can be considered. Successful applicants should have a record of (or potential for) excellence in teaching, the ability to relate well with students, and the ability to teach students with a wide range of academic backgrounds.

About Applying

For full consideration, candidates must complete an online application and electronically attach a cover letter, curriculum vitae, teaching statement, and contact information of two professional references through *http://www.sujobopps.com/postings/81917*

To be competitive, we strongly encourage candidates to apply early. Review of applications will continue until the positions are filled. For additional information, please contact the search committee, via email at *eecssearch@syr.edu*.

Syracuse University is an equal opportunity/affirmative action employer with a strong commitment to equality of opportunity and a diverse workforce.

Syracuse University

Open-Rank Tenure-Track Faculty Position in Computer Science (Artificial Intelligence, Machine Learning, Intelligent Systems)

Job Description

Syracuse University's Department of Electrical Engineering and Computer Science (EECS) in the College of Engineering and Computer Science (*http://eng-cs.syr.edu*) invites applications for a tenure-track or tenured faculty position in Artificial Intelligence, Machine Learning, and Intelligent Systems. Ideal candidates are committed to innovative teaching, inclusive excellence, and interdisciplinary collaboration within four signature research areas: Unmanned Systems, Energy Sources Conversion and Conservation, Intelligent Systems, and Security. Further information on the strategic areas can be found at: *https://eng-cs.syr.edu/research/50-over-5-signature-hiring-initiative/*

The Faculty hired will build on our existing strengths in the signature areas and will participate in organized research clusters that span multiple departments in the College of Arts and Sciences, Maxwell School of Citizenship and Public Affairs, Martin J. Whitman School of Management, School of Architecture, David B. Falk College of Sport and Human Dynamics and the College of Engineering and Computer Science.

Qualifications & Responsibilities

Candidates must have earned a doctoral degree in computer science or a related discipline. We strongly encourage applications from candidates with a demonstrated commitment to diversity, inclusion, and excellence in both teaching and research. Syracuse University is a

Carnegie R1 ranked (highest research activity classification) university that "aspires to be a pre-eminent and inclusive student-focused research university."

About Applying

For full consideration, candidates must complete an online application and electronically attach a cover letter, curriculum vitae, research statement, teaching statement, and contact information of three professional references through *http://www.sujobopps.com/postings/81914*, job# 074808. To be competitive, we strongly encourage candidates to apply early. Review of applications will continue until the positions are filled. For additional information, please contact the search committee, via email at *eecssearch@syr.edu*.

Syracuse University is an equal opportunity/affirmative action employer with a strong commitment to equality of opportunity and a diverse workforce. Women, military veterans, individuals with disabilities, and members of other traditionally underrepresented groups are encouraged to apply.

Apply Here: *http://www.sujobopps.com/postings/81914*

Texas A&M University

Postdoctoral Research Associates in Data Science

The Texas A&M Institute of Data Science is accepting applications for postdoctoral positions in two areas: (1) Machine Learning with Graph Data, and (2) Operational Data Science.

Consult *https://tamids.tamu.edu/category/jobs-in-tamids/* for further details

University College London

Lecturer/Associate Professor in Systems and Networking, - Ref:1859155

Click here to go back to search results

UCL Department / Division

UCL Department of Computer Science

Specific unit / Sub department

Computer Systems and Networking

Location of position

London

Grades

8-9

Hours

Full Time

Salary (inclusive of London allowance)

Grade 8 £44,674 - £52,701 per annum; & Grade 9 £57,279 - £62,283 per annum. There is an additional Systems and Networks specialism market supplement of £20,000 per annum. The market supplement is reviewed every two years.

Duties and Responsibilities

The Department of Computer Science at University College London (UCL) invites applications for a faculty position in the areas of Computer Systems and Networking. We seek world-class talent; candidates must have an outstanding research track record. Areas of interest for this position include operating systems, systems security, distributed systems, networking, and their intersection, with an emphasis on experimental system-building. Appointments will be made at the rank of Lecturer (equivalent to Assistant Professor in the U.S. system of academic ranks) or Associate Professor, commensurate with qualifications.

Key Requirements

Candidates must hold an earned Ph.D. in Computer Science or a closely related field by the time they begin their appointment. They will be evaluated chiefly on the significance and novelty of their research to date, and their promise for leading a group in a fruitful program of research. They must also demonstrate a zest for innovative and challenging teaching at the graduate and undergraduate levels. A proven record of ability to manage time and evidence of ability to teach and to supervise academic work by undergraduates, masters, and doctoral students are desirable. Our department is a highly collaborative environment, and we seek future colleagues who enjoy working collaboratively. Candidates should further be committed to public communication, and to UCL's policy of equal opportunity, including working harmoniously with colleagues and students of all cultures and backgrounds.

An Associate Professor-level appointment may be appropriate for candidates with an established research track record who have shown leadership in their field.

Further Details
A job description and person specification can be accessed at the bottom of this page. To apply for the vacancy please click on the "Apply Now" button below.

Further details about UCL CS, the post, and how to apply may be found at the bottom of this page.

Please read the description of the application process before you apply, as there are specific requirements regarding applying online and the arrival of reference letters by the closing date. All application materials must reach UCL by the closing date for this vacancy.

Please note that UCL CS will not request your reference letters. You must have your referees submit all reference letters directly to ComputerScience.HR@ucl.ac.uk in time to arrive by the above deadline. Please note that this letter submission requirement supersedes content on UCL's HR department's web site, which suggests letters are requested by UCL later.

Apply Here

If you have any queries regarding the vacancy or the application process, please contact the Computer Science HR team at *ComputerScience.hr@ucl.ac.uk*.

We particularly welcome female applicants and those from an ethnic minority, as they are under-represented within UCL at this level.
UCL Taking Action for Equality

Closing Date
4 Mar 2020

Latest time for the submission of applications
23:59

Interview date
TBC

UC San Diego

Adjunct Professor in Computer Science and Engineering

The UC San Diego Department of Computer Science and Engineering (CSE) invites applications for an Adjunct Professor position at Full Professor rank. The department is looking for exceptional candidates in the area of Architecture of Large-Scale Systems, preferably with extensive industry experience building, designing, implementing, and deploying Large-Scale Databases at-scale.

We are looking for applicants with outstanding research credentials. Successful applicants are expected to lead a vigorous research program and will be required to teach university students. We are particularly seeking faculty passionate about working with graduate students and training the next generation of researchers.

Applicants must have a Ph.D. in computer science or a related area at the time of application.

Salary and rank will be commensurate with qualifications in conformance with University of California policies.

The CSE Department is committed to building an excellent, diverse, and inclusive faculty, staff and student body. In addition to the highest standards of scholarship, teaching, and professional activity, successful candidates for this position will have potential or demonstrated contributions to a climate that supports equity, inclusion, and diversity.

CSE is home to over 70 faculty and 500 graduate students who span a range of research areas in computer science, computer engineering, and bioinformatics. In addition, the department works closely with the Center for Networked Systems (CNS), the California Institute for Telecommunications and Information Technology (CalIT2), the Halicioglu Data Science Institute (HDSI), the Contextual Robotics Institute (CRI), San Diego Supercomputer Center (SDSC), and the Center for Wireless Communications (CWC), which provide unique opportunities and resources. More information can be found at *http://www.cse.ucsd.edu*.

We encourage candidates to send applications as soon as possible. Applications received by February 28, 2020, will be given full consideration. However, positions remain open until filled.

To apply, submit the materials described below at the website: [*https://apol-recruit.ucsd.edu/JPF02401*]

Please submit a:

- Cover letter
- Curriculum vitae
- Research and teaching statements
- 3 reference letters addressing research, teaching, professional service

UCSD is an equal opportunity and affirmative action employer with a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. Women and minority applicants, veterans, and persons with disabilities are strongly encouraged to apply (see *http://diversity.ucsd.edu*).

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.

University of California - San Diego

Assoc. or Full Professor - Computer Science and Engineering

The UC San Diego Department of Computer Science and Engineering (CSE) invites applications for a tenure faculty position at the Associate or Full Professor rank. The department is looking for exceptional candidates in all areas of Computer Science and Engineering.

We are looking for applicants with outstanding research credentials. Successful applicants are expected to lead a vigorous research program and will be required to teach university students. We are particularly seeking faculty passionate about working with graduate students and training the next generation of researchers.

Applicants must have a Ph.D. in computer science or a related area at the time of application.

Salary and rank will be commensurate with qualifications in conformance with University of California policies.

The CSE Department is committed to building an excellent, diverse, and inclusive faculty, staff and student body. In addition to the highest standards of scholarship, teaching, and professional activity, successful candidates for this position will have potential or demonstrated contributions to a climate that supports equity, inclusion, and diversity.

UC SANTA CRUZ

The Department of Electrical and Computer Engineering at the University of California, Santa Cruz invites applications for a Tenure Track Assistant Professor in Intelligent Robotics

We seek outstanding applicants that work at the intersection of robotics, control, and cyber-physical systems. Of interest are individuals working on applied research in sensing/perception and on closing the control loop using advanced techniques [e.g., machine learning (ML); data-driven control; intelligent control (AI)] to enable the applications of robotics and autonomous systems in complex and uncertain environments. These environments include, but are not limited to, autonomous robots for AgTech, self-driving cars and trucks in densely populated areas, ocean and space exploration, unmanned flying vehicles in crowded and unstructured spaces, surgical operating rooms, rescue missions, and infrastructure protection after natural disasters.

Candidates are required to have a doctoral degree in a relevant discipline. Candidates should be able to teach core ECE and Robotics courses, robotics courses for non-engineering majors, and be passionate about innovation in hands-on, project-based, and laboratory-based educational activities at the undergraduate and graduate levels. The successful candidate is expected to develop an externally funded research program, advise and support graduate students in their research area, develop and teach courses within the undergraduate and graduate curriculum, perform university, public, and professional service, and cherish working with students, faculty, and staff from a wide range of social and cultural backgrounds.

For full consideration, applications must be received by March 20, 2020.
Apply at: **https://apptrkr.com/1784023**

UCSC is an EEO/AA/Vet/Disability/Minority Employer.

CSE is home to over 70 faculty and 500 graduate students who span a range of research areas in computer science, computer engineering, and bioinformatics. In addition, the department works closely with the Center for Networked Systems (CNS), the California Institute for Telecommunications and Information Technology (CalIT2), the Halicioglu Data Science Institute (HDSI), the Contextual Robotics Institute (CRI), San Diego Supercomputer Center (SDSC), and the Center for Wireless Communications (CWC), which provide unique opportunities and resources. More information can be found at *http://www.cse.ucsd.edu*.

We encourage candidates to send applications as soon as possible. Applications received by February 15, 2020, will be given full consideration. However, positions remain open until filled.

To apply, submit the materials described below at the website: [*https://apol-recruit.ucsd.edu/JPF02381*]

Please submit a:

- Cover letter
- Curriculum vitae
- Research and teaching statements
- 3 reference letters addressing research, teaching, professional service
- A separate statement describing your past efforts and future plans to promote diversity and inclusion. See the faculty equity site for more information. Examples of contributions to diversity include, but are not limited to, developing strategies for the educational or professional advancement of students from underrepresented groups; efforts to advance equitable access and diversity in education; and activities such as recruitment, retention, and mentoring or advising of underrepresented students or new faculty. For additional information regarding contributions to diversity and how they are weighted by the hiring committee, please visit *http://soeadm.ucsd.edu/ppi/academic_personnel/diversity/docs/C2D_Expectations.pdf*

"The University of California is committed to creating and maintaining a community dedicated to the advancement, application, and transmission of knowledge and creative endeavors through academic excellence, where all individuals who participate in University programs and activities can work and learn together in a safe and secure environment, free of violence, harassment, discrimination, exploitation, or intimidation. With this commitment, UC San Diego requires all candidates for academic appointments with tenure or security of employment to complete, sign, and upload the form entitled "Authorization to Release" into RECRUIT as part of their application."

For applicants with interest in spousal/partner employment, please see the UCSD Partner Opportunities Program.

UCSD is an equal opportunity and affirmative action employer with a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. Women and minority applicants, veterans, and persons with disabilities are strongly encouraged to apply (see *http://diversity.ucsd.edu*).

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.

University of Central Florida

Multiple Tenure-track or Tenured Positions in Computer Science

The University of Central Florida (UCF) is recruiting for several tenure-track or tenured positions in the department of Computer Science (CS) and several faculty clusters with possible positions in CS. All positions start on August 8, 2020.

Ideal candidates will have a strong research background and be on an upward leadership trajectory. They will have research impact, as reflected in high-quality publications and the ability to build a well-funded research program. Minimum qualifications include a Ph.D., terminal degree, or foreign degree equivalent in an area appropriate to the department, from an accredited institution at the time of the appointment, and a record of high impact research, demonstrated by a strong scholarly and/or funding record. Tenure requires a commensurate record of teaching, research and service. Candidates must apply online at the appropriate link. For instructor or lecturer in Computer Science or Information Technology position, a Ph.D. (for lecturer) or M.S. (for instructor)

from an accredited institution in Computer Science, Information Technology, or a closely related discipline from an accredited institution at the time of the appointment.

The positions available each have more detail available at the corresponding application which also has more information on that position: a) An assistant professor in Cyber Security and Privacy *https://jobs.ucf.edu/en-us/job/498186/assistant-professor-computer-science*; b) An assistant professor in the Cyber Security and Privacy cluster (*https://jobs.ucf.edu/en-us/job/498145/assistant-professor-cyber-security-and-privacy*); c) An assistant or associate professor in the Learning Sciences cluster (*https://jobs.ucf.edu/en-us/job/498136/assistant-or-associate-professor-learning-sciences*); d) An assistant or associate professor in the Disability, Aging, and Technology cluster in the area of Human-Technology Interaction (*https://jobs.ucf.edu/en-us/job/498165/associate-professor-or-professor-humantechnology-interaction*); e) An associate professor or professor in the Disability, Aging, and Technology Cluster (*https://jobs.ucf.edu/en-us/job/498165/associate-professor-or-professor-humantechnology-interaction*); f) An assistant professor in Computer Vision (*https://jobs.ucf.edu/cw/en-us/job/498207?lApplicationSubSourceID=11250*); g) An instructor or lecturer in Computer Science or Information Technology (*https://jobs.ucf.edu/en-us/job/498183/instructor-or-lecturer-computer-science-and-information-technology*).

Position (a) and (b) seek applicants at the intersection of Cybersecurity/Privacy and at least one of Computer Architecture, Compiler/Code Generation, and System (OS, file, storage, networked).

CS at UCF is home to the first CS Ph.D. program in Florida. Its 34 tenured and tenure-track faculty are engaged in world-class research in HCI, Computer Vision, AI and Machine Learning, Virtual Reality, Cyber Security and Privacy, Computer Architecture/System, and many other areas. The department has both CS and IT undergraduate degrees accredited by ABET, and MS degrees in CS, Digital Forensics, and Data Analytics, and a Ph.D. in CS, see *www.cs.ucf.edu*.

UCF is one of the nation's largest universities. An economic engine, UCF attracts and supports vital industry to Orlando. UCF's is at the center of the Florida High Tech Corridor, where industries include software, defense, space, simulation & training, and entertainment. Next to UCF is a thriving research park that conducts over $2 billion in funded research. UCF is a neighbor to large corporations such as Disney, Harris Corporation, Lockheed Martin, Siemens, Oracle, Apple, AMD, and many others. Great weather, easy access to the seashore, one of the largest convention centers in the nation, and one of the world's best airports are just a few features that make Orlando an ideal location. Orlando has one of the fastest growing and dynamic economy in the nation. In 2018, Orlando metro area had the fifth largest increase in population. Learn more about UCF at *www.ucf.edu/faculty*.

As an equal opportunity/affirmative action employer, UCF encourages all qualified applicants to apply, including women, veterans, individuals with disabilities, and members of traditionally underrepresented populations. UCF's Equal Opportunity Statement can be viewed at: *www.oie.ucf.edu/documents/PresidentsStatement.pdf*. As a Florida public university, UCF makes all application materials and selection procedures available to the public upon request.

University of Denver

Faculty Positions

The University of Denver Computer Science Department is hiring for three faculty positions for the 20-21 academic year: Professor (Open Rank), Assistant/Associate Professor, and Teaching Assistant Professor. We are hiring new faculty in the following strategic areas: Artificial intelligence and data science, Cyber-physical systems and cybersecurity and Robotics/Mechatronics. For research positions, we are especially interested in applicants that can also build research partnerships with existing faculty who have strengths in algorithms, computational geometry, computer science education, embedded systems and UAVs, games, human-robot interactions, programming languages, security, privacy, and software engineering.

https://jobs.du.edu/cw/en-us/job/492900/professor-open-rank-computer-science

https://jobs.du.edu/cw/en-us/job/492902/assistantassociate-professor-computer-science

https://jobs.du.edu/cw/en-us/job/492893/teaching-assistant-professor-computer-science

University of Georgia

Franklin College of Arts & Sciences

Department of Computer Science

Two Assistant Professor Positions with Emphasis on AI Security and System Security

The Department of Computer Science at the University of Georgia invites applications for two tenure-track Assistant Professor positions starting August 2020. Applicants should hold a Ph.D. in Computer Science or closely related field at the time of appointment, have a strong research record, and show a commitment to excellence in both research and teaching.

For the AI Security position, we are interested in candidates with an interdisciplinary research background in AI and cybersecurity. Candidates with at least one year of significant research experience in AI Security, including, but not limited to, topics such as adversarial attacks through data poisoning and adversarial examples, model trojans, membership inference attacks, deep fakes, and smart deception, are especially encouraged to apply.

For the System Security position, we are interested in candidates with an extensive research background in cybersecurity. Candidates with at least one year of significant research experience in System Security, including, but not limited to, topics such as software testing, binary analysis, and automated vulnerability discovery, are especially encouraged to apply.

We currently have six successful faculty members working in cybersecurity and privacy areas, with focus on System and Network Security, Hardware Security, and Privacy. The department also has five successful faculty members working in various areas of AI, including machine learning and computer vision, with close ties to UGA's Institute for Artificial Intelligence. The ideal candidates for these positions will complement and further strengthen our department's research and education efforts in computer security, privacy, and its applications to AI technologies. Each position offers a competitive salary and generous startup package.

UGA has established an Institute for Cyber Security and Privacy (ICSP), which is housed in the Computer Science Department. The University of Georgia has been designated as a National Center of Academic Excellence in Cyber Defense Research (CAE-R) through academic year 2022. Additional information about the ICSP can be found at the following link: *http://cybersecurity.uga.edu/*. In addition, the Department will offer an MS in Cybersecurity starting in Fall 2020, and the Institute for AI offers a MS in AI.

Computer Science is a growing and congenial department of 33 faculty within the Franklin College of Arts and Sciences. The department has more than 1,150 undergraduate and more than 200 graduate students and offers the B.S., M.S., and Ph.D. degrees in CS. The teaching load allows for substantial concentration on research. Please see *http://www.cs.uga.edu* for more information about the department.

The Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to increasing the diversity of its faculty and students, and to sustaining a work and learning environment that is inclusive. Women, minorities, protected veterans and individuals with disability are encouraged to apply. The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, ethnicity, age, genetic information, disability, gender identity, sexual orientation, or protected veteran status. Persons needing accommodations or assistance with the accessibility of materials related to this search are encouraged to contact Central HR (*hrweb@uga.edu*). Please do not contact the department or search committee with such requests.

UGA, a land-grant and sea-grant university with statewide commitments and

responsibilities is the state's oldest, most comprehensive and most diversified institution of higher education (*http://www.uga.edu*). UGA is currently ranked among the top 20 public universities in U.S. News & World Report.

To apply for the AI Security position, please go to

http://www.ugajobsearch.com/postings/136048

To apply for the System Security position, please go to

http://www.ugajobsearch.com/postings/136029

Please upload a cover letter, curriculum vitae, and short statements of research interests and teaching philosophy. Please provide contact information (email and telephone number) for three references. Review of applications will begin on February 10, 2020 and will continue until the positions are filled.

University of Maryland

Tenure-track and tenured positions at the Maryland Cybersecurity Center (MC2)

The Maryland Cybersecurity Center (MC2) has openings for multiple tenured and/or tenure- track faculty positions in cybersecurity. There is particular interest in the broader area of systems security but exceptional candidates will be considered in all areas of cybersecurity such as (in alphabetical order) *adversarial machine learning, blockchain and cryptocurrency security, cryptography, data-driven security, human-centered security, network and wireless security, PL- oriented and software security, privacy/censorship/fairness and side-channel analysis, attacks, and defenses*. Successful applicants will have a tenure home either with the Department of Computer Science or the Department of Electrical and Computer Engineering at the University of Maryland and will also have a joint appointment at the University of Maryland Institute for Advanced Computer Studies (UMIACS).

Computer Science and Engineering at the University of Maryland are consistently ranked among the top 15 nationally. In 2019, the Maryland Cybersecurity Center moved into its new state-of-the-art facility, the Brendan Iribe Center for Computer Science and Engineering. Additional information about the Maryland Cybersecurity Center, the Department of Computer Science, the Department of Electrical and Computer Engineering and UMIACS is available at *www.cyber.umd.edu/*, *www.cs.umd.edu*, *http://www.ece.umd.edu* and at *www.umiacs.umd.edu*. To learn more about the Iribe Center, please visit: *iribe.umd.edu/*.

Interested candidates should apply on-line at *https://ejobs.umd.edu/postings/76588* or go to *www.ejobs.umd.edu* and search under Faculty for position 105032 in order to receive consideration. Applications are accepted all year until all positions are filled. Applicants are strongly encouraged to have complete versions of their materials – including a cover letter, a curriculum vitae, research and teaching statements, and recommendation letters from at least four references---uploaded by February 10th, 2020. Candidates will be prompted when submitting the application to submit all information for their references. Questions can be directed to the faculty recruitment committee at *tdumitra@umd.edu*. The Maryland Cybersecurity Center is committed to building a diverse faculty pre-eminent in its mission of research, education, and service to the community, and we especially encourage applications from women and underrepresented minorities. In addition, candidates who have experience engaging with a diverse range of faculty, staff, and students in promoting and fostering inclusivity are encouraged to discuss their perspectives on these subjects in the application materials.

The University of Maryland, College Park, was founded in 1856 and is the flagship institution in the University System of Maryland. Its 1,250-acre College Park campus is minutes away from Washington, D.C., the nexus of the nation's legislative, executive, and judicial centers. This unique proximity to business and technology leaders, federal departments and agencies, and a myriad of research organizations, embassies, think tanks, cultural centers, and non- profit organizations offers unique opportunities for engagement for faculty and students.

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. The University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, national origin, physical or mental disability, protected veteran status, age, gender identity or expression, sexual orientation, creed, marital status, political affiliation, personal appearance, or on the basis of rights secured by the First Amendment, in all aspects of employment, educational programs and activities, and admissions.

University of New Haven

Non-Tenure Track Assistant Professor in Computer Science

The University of New Haven invites applications for Non-Tenure Track Assistant Professor in Computer Science for August 2020.

For full description click *here*

University of New Haven

Assistant Professor Computer Science

The University of New Haven invites applications for Tenure Track Assistant Professor in Computer Science for August 2020.

For a full description click *here*.

University of Virginia

Open Rank-General Faculty in Computer Science & Data Science

The School of Data Science, in conjunction with the Department of Computer Science, at the University of Virginia have exciting joint positions for one or more Academic General Faculty (teaching-track) positions to begin in Summer or Fall of 2020. We seek applicants who share our interest and enthusiasm for excellence in Data Science to join the Computer Science Department and the School of Data Science at the University of Virginia.

The School of Data Science – UVA's 12th school and the first established since 2007 – will position the University as a global leader in efforts to improve society through teaching and research based on the powerful, emerging field of Data Science. UVA has offered a Master of Science in Data Science since 2013 and the new School of Data Science will offer doctoral, masters and undergraduate degree programs, helping to meet soaring demand for qualified Data Science professionals in a field that plays a key role in the global information-based economy.

The UVA Department of Computer Science is a nationally recognized leader in Computer Science research and education in one of the nation's oldest and most respected engineering schools. The Department includes 58 faculty, including 17 teaching-track General Faculty, who are active in fundamental Computer Science and engineering education and research, and are actively engaged in interdisciplinary initiatives with educators, scientists, humanists, engineers in other disciplines, and medical personnel.

Candidates for the Academic General Faculty (teaching-track) positions at the rank of Assistant, Associate or full Professor must have completed a PhD in Computer Science, Computer Engineering, Data Science or a related discipline by the time they join the UVA faculty. The School of Data Science and the Computer Science Department are committed to recruiting faculty at all levels who possess a diversity of life experiences. We especially encourage applications from individuals who are members of underrepresented groups and who have worked to support the broadening of student access to Data Science and/or Computer Science careers. We are committed to creating and benefiting from an environment where a diverse group of capable, inspired individuals interact and collaborate to learn and advance knowledge without barriers.

Candidates are expected to develop and teach potentially both residential and online courses primarily for the *Master of Science in Data Science program*, and to teach courses at the undergraduate or graduate level in residential programs for *the Computer Science Department* and School of Data Science. Candidates with strong backgrounds in areas supporting computing topics such as data mining, machine learning, databases, and cloud computing are encouraged to apply.

Successful candidates will have service responsibilities, and scholarship in data science and/or education is expected for

promotion. The School and the Department strongly value scholarship activities by General Faculty that have potential to advance computing education.

These positions will have renewable three-year contracts. University policies ensure that these positions benefit from opportunities for professional development, and there is a well-defined promotion path for these positions. General Faculty receive support for their teaching and scholarship activities.

The University of Virginia is annually ranked as one of the premier public institutions in the United States and is located in Charlottesville, a picturesque and vibrant small city perennially ranked as one of the best places to live in the U.S. More information about town, the school, faculty benefits and other topics can be found at ***http://uvacharge.virginia.edu/guide.html***.

UVA assists faculty spouses and partners seeking employment in the Charlottesville area. To learn more please visit ***https://dualcareer.virginia.edu/***.

With one of the highest graduation rates of minority undergraduate students and one of the highest percentages of women engineering students among public universities, the Department and the University of Virginia are fundamentally committed to increasing the diversity of its faculty and staff. UVA is an affirmative action and equal opportunity employer. We welcome nominations of and applications from women, members of minority groups, veterans and individuals with disabilities.

We also welcome others who would bring additional dimensions of diversity to the university's research and teaching mission. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences.

Please apply online at ***https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Open-Rank-General-Faculty-in-Computer-Science---Data-Science_R0012991*** and attach the following documents: a CV; a statement of teaching philosophy; contact information for three references; and, a cover letter that addresses your experience working with diverse populations and your values related to diversity, equity, and inclusion.

Review of candidates will begin on February 6, 2020 and will continue until positions are filled.

For questions regarding the positions, please contact Nada Basit, Search Committee Chair, at ***basit@virginia.edu***.

For questions about the application process, please contact Rich Haverstrom, Faculty Search Advisor, at ***rkh6j@virginia.edu***.

The University will perform background checks on all new hires prior to employment. This position will also require an Education Verification (FSAKA).

The University of Virginia, including the UVA Health System and the University Physician's Group are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender identity or expression, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.

Wentworth Institute of Technology

Assistant/Associate/Full Professor - Cybersecurity

Founded in 1904, Wentworth Institute of Technology is an independent, co-educational, nationally-ranked university offering career-focused education through 19 bachelor's degree programs in areas including computer science, computing networking, cybersecurity, engineering, architecture, design, and construction management. Recent new programs include Cybersecurity and Applied Sciences, both launched in 2019.

The Department of Computer Science and Networking invites applications for one open rank Professorship in the area of Cybersecurity. Qualifications required of all applicants include a minimum of an M.S. in Computer Science or a related discipline and a strong commitment to teaching at the undergraduate and graduate levels.

The Department consists of 15 full-time faculty members and offers programs

leading to three B.S. degrees in Computer Science, Computer Networking, and Cybersecurity. The Department also offers a full-time M.S. program in Applied Computer Science. The Department has teaching and research strengths in artificial intelligence, cybersecurity, networking, operating systems, high-performance computing, software engineering, and mobile/web application development. In addition, members of the Department have close collaborative relationships with faculty in applied mathematics, sciences, and electrical and computer engineering, among others.

Wentworth's mission is to prepare our students for career success through experiential learning. Faculty are expected to teach undergraduate computing courses, to engage in research and scholarly activity, and to perform service to the institute (including academic advising and serving on committees) and the profession. Faculty are strongly encouraged to participate in service-learning opportunities with the Center for Community and Learning Partnerships and in innovation and entrepreneurship activities with Accelerate.

Review of applications will be on a rolling basis until the position is filled. Qualified applicants should apply at *https://jobs.wit.edu/postings/4822*. Wentworth seeks to increase the diverse perspectives of its faculty and encourages applications from members of underrepresented groups in STEM.

Wentworth is an AA/EEO employer. Women and underrepresented groups are encouraged to apply.

EMORY
ROBERT W. WOODRUFF HEALTH SCIENCES CENTER

Woodruff Health Sciences Center, Emory University currently has opportunities for

Assistant or Associate Professors - Tenure Track - Diabetes Research

Emory University's Woodruff Health Sciences Center (WHSC) has faculty opportunities for tenured/tenure-track researchers in diabetes, obesity and metabolism to expand the institution's diabetes to expand research aimed at effective delivery of diabetes prevention and quality of care. WHSC seeks to strengthen diabetes translation research in areas such as **health services research, application of technologies, machine learning and applied artificial intelligence, big data analytics, and precision health.** *http://whsc.emory.edu/index.html*

Qualified candidates should have a MD and/or PhD (in a relevant discipline) with a strong record of academic research scholarship, a demonstrated capacity to publish and secure external funding, and the ability to be a team player while carving out a distinctive niche in diabetes translation research. The candidate's interest and discipline will determine the primary appointment (e.g., schools of medicine, public health, or nursing), but cross-appointments with other WHSC or Emory schools will be encouraged to foster the idea of "One Emory".

For Consideration

Interested candidates should submit a *curriculum vitae* and letter of interest including the names of three or more references. Please submit your information to this position on the Emory Career Website at: *https://faculty-emory.icims.com/jobs/**45954**/job*. Evaluation of applications began in December 2019 and will continue until all positions are filled. The application process is confidential, and references will only be contacted with the permission of the applicant.

Emory University is an EOAA employer.

Worcester Polytechnic Institute

Teaching Professor/Instructor

JOB DESCRIPTION SUMMARY

Full-Time Teaching Positions Available in Computer Science

Looking for faculty colleagues who engage deeply in both teaching and research within a curriculum that embraces student projects and independent learning? Consider joining the faculty at WPI.

The Computer Science Department is actively seeking applicants for one or more full-time, non-tenure track positions for the Fall of 2020. Depending on background, appointments may be as a Teaching Professor or Instructor. Applicants with professional experience are encouraged to apply and may be appointed as a Professor of Practice. Appointments may be for multiple years and are renewable.

JOB DESCRIPTION

The department is interested in applicants with teaching and project advising expertise in all areas of Computer Science, but is particularly interested in applicants with experience in introductory Computer Science, Systems, Databases and Software Engineering. The successful candidate will teach and advise projects at the undergraduate and possibly graduate levels as well as be a contributing member of a collegial department with over 35 full-time faculty members.

Junior-year projects involving the interaction of society and technology, Senior-year projects in the major, graduate students and a number of computing-related degree programs make the WPI Computer Science Department a rewarding environment for candidates interested in teaching and project advising.

Founded in 1865, WPI is one of the nation's first technological universities. A highly selective private university located within an hour of Boston, WPI is consistently ranked among the top 60 research institutions by US News & World Report. The university is home to an innovative and intensive project-based curriculum that empowers students with the knowledge and skills to address real world problems around the globe, an approach repeatedly cited for excellence by The Fiske Guide to Colleges and The Princeton Review.

Located in the heart of New England, WPI is surrounded by cultural and recreational opportunities. The UMass Medical Center, a large number of technology companies and many colleges and universities are located in the immediate area making it ideal for two-career families.

Questions about the hiring process should be sent to mailto:recruit@cs.wpi.edu. More information about the positions and instructions for applying are available at http://web.cs.wpi.edu/facultyhire/. You will need to include a teaching statement, vitae and contact information for at least three references.

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

Candidates should have an advanced degree in Computer Science or a closely related field, and the potential for excellence in teaching and project advising.

WPI is an Equal Opportunity Employer. All qualified candidates will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, national origin, veteran status, or disability. We are seeking individuals with diverse backgrounds and experiences who will contribute to a culture of creativity and collaboration, inclusion, problem solving and change making.

To apply, visit: **https://apptrkr.com/1801201**

About WPI

WPI is a vibrant, active, and diverse community of extraordinary students, world-renowned faculty, and state of the art research facilities. At WPI, we have competitive and comprehensive benefits, including health insurance, long-term care, retirement, tuition assistance, flexible spending accounts, work-life balance and much more.

Diversity & Inclusion at WPI

WPI is committed to creating an inclusive workplace where everyone feels valued and respected; a place where every student, faculty and staff member can be themselves, so that they can study, live, and work comfortably, to reach their full potential, and make meaningful contributions in order to meet departmental and institutional goals. WPI thrives on innovative practice and welcomes diverse perspectives, insight, and people from diverse lived experiences, to enhance the community environment and propel the institution to the next level in a competitive, global marketplace.

GREAT MINDS at WORK