

COMPUTING RESEARCH NEWS



Computing Research Association
Uniting Industry, Academia and Government to
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CRN At-A-Glance

2021 CRA Board of Directors Election Results

CRA members have elected three new members to its Board of Directors: Diana Franklin, Katie Siek and Eve Schooler. James Allan, Stephanie Forrest, Ayanna Howard, Ran Libeskind-Hadas, Rachel Pottinger, and Chris Ramming were re-elected to the CRA board. All of their terms run from July 1, 2021 through June 30, 2024. Vivek Sarkar will remain on the board as the co-chair of the CRA Industry Committee. CRA would like to thank everyone who agreed to run this year.

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CRA Conference at Snowbird Update

After careful consideration of the current and projected situation surrounding the pandemic, CRA has unfortunately decided to cancel the in-person CRA Conference at Snowbird scheduled to take place this August. At this time, there are simply too many uncertainties to move forward.

We believe interaction is a critical feature of this conference. Given we held a virtual version last year, we have decided not to organize a hybrid or entirely virtual meeting this year, as this is typically an off year for Snowbird. CRA is currently planning to hold a full in-person Conference at Snowbird on July 19-21, 2022.

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CRA/CCC Announces CIFellows 2021 Program

The **Computing Research Association** (CRA) and **Computing Community Consortium** (CCC) are pleased to announce a new Computing Innovation Fellows (CIFellows) cohort for 2021. This program recognizes the continued disruption to hiring in academic institutions due to the COVID-19 pandemic. As before, this program aims to provide a career-enhancing bridge experience for recent and soon-to-be PhD graduates in computing to support maintaining the computing research pipeline.

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Retiring from the board as of June 30, are Michael Franklin, Kathryn McKinley, Greg Morrisett, and Ellen Zegura. CRA thanks them all for contributions during their service on the board.

Diana Franklin



Diana Franklin is an associate professor in computer science at the University of Chicago. When she received her PhD at UC Davis, 2002, her research focus was computer architecture, especially new technologies. She has done research in intelligent memories, memristors, and quantum computers. In 2008, she began her transition to computer science education research. She now leads the CANON (Computing for ANYONE) Lab, specializing in both 3rd-8th grade computer science interventions and quantum computing education for novices of any age with a particular focus towards moving towards more equitable learning experiences. She is currently the co-lead of the Q-12 Partnership, a new initiative by the Office of Science and Technology Programs, the National Science Foundation, industry, and professional organizations to bootstrap K-12 quantum information science education.

Eve Schooler



Eve M. Schooler is a Principal Engineer and Director of Emerging IoT Networks at Intel. Her current work focuses on developing architectural building blocks to evolve the Internet toward a data-centric Edge-to-Cloud continuum and Sustainable infrastructure. She is responsible for setting technical and strategic direction for IoT standards, bridging upper layer IoT and lower layer networking. While at Intel, she has led R&D on a range of topics including collaborative anomaly detection for network security, data privacy-preservation in Smart Homes, energy efficiency for the Smart Grid, data-centric networking, and reverse CDNs for aggregated video streams in Smart Cities. A recognized expert in distributed systems, Eve has served in leadership positions in various standards bodies, and currently serves on the IETF IoT Directorate and co-chairs the IETF Reliable and Available Wireless (RAW) WG to support L3 time sensitive networks, as well as the Computing-in-the-Network (COIN) RG, examining the convergence of networking-compute-storage. Prior to Intel, she held positions at Apollo Computers (acquired by HP), Information Sciences Institute (ISI), AT&T Labs-Research, and Pollere. Eve obtained a BS from Yale, MS from UCLA, and PhD from Caltech, all in Computer Science. She is an IEEE Fellow and the co-recipient of the 2020 IEEE Internet Award for her work on control protocols for Internet telephony and multimedia teleconferencing.



Katie Siek

Katie Siek is a professor and chair of informatics at Indiana University Bloomington. Her primary research interests are in human computer interaction, health informatics, and ubiquitous computing. More specifically, she is interested in how sociotechnical interventions affect personal health and well-being. Her research is supported by the National Institutes of Health, the Robert Wood Johnson Foundation, and the National Science Foundation including a five-year NSF CAREER award. She has been awarded an NCWIT Undergraduate Research Mentoring Award (2019), a CRA-W Borg Early Career Award (2012), and Scottish Informatics and Computer Science Alliance Distinguished Visiting Fellowships (2010 & 2015). Prior to returning to her alma mater, she was a professor for seven years at the University of Colorado Boulder. She earned her PhD and MS at Indiana University Bloomington in computer science and her BS in computer science at Eckerd College. She was a National Physical Science Consortium Fellow at Indiana University and a Ford Apprentice Scholar at Eckerd College, and is a CCC Council member.

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The program committee put in a large amount of work – over two years – and we all owe them a huge debt of gratitude for their efforts: Penny Rheingans (University of Maine) Co-Chair, Jaime Teevan (Microsoft Research) 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) and Divesh Srivastava (AT&T Labs Research).

With the 2022 event, CRA will resume the regular conference pattern of every other year with a conference in subsequent even number years. Thank you for your patience and understanding during this time. We look forward to seeing everyone in person in 2022!

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

CRA and CERP Welcome Taniya Ross-Dunmore



CRA has recently hired Taniya Ross-Dunmore as a research assistant for CRA's [Center for Evaluating the Research Pipeline](#) (CERP). In this role, she will assist in CERP's research and evaluation projects and tasks. Taniya holds a Bachelor's of Arts in psychology from Spelman College where she obtained experience in data collection and evaluation, research methods, psychometrics, and more.

Prior to joining the CRA CERP team, she worked as a registered behavioral technician for children with autism and aided in the facilitation of a program which aimed to increase young women of color in the STEM and art fields. In her free time, she enjoys painting, reading, and Netflix.

CRA/CCC Announces CIFellows 2021 Program



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CIFellows 2021

Computing Innovation Fellows



The **Computing Research Association (CRA)** and **Computing Community Consortium (CCC)** are pleased to announce a new Computing Innovation Fellows (CIFellows) cohort for 2021. This program recognizes the continued disruption to hiring in academic institutions due to the COVID-19 pandemic. As before, this program aims to provide a career-enhancing bridge experience for recent and soon-to-be PhD graduates in computing to support maintaining the computing research pipeline.

The Computing Innovation Fellows Program is open to researchers whose work falls under the umbrella of the **National Science Foundation (NSF) Computing and Information Science and Engineering (CISE) Directorate**. This includes PhD graduates who are planning a career in academia either as a research scientist or in a faculty position. This effort takes inspiration from CRA/CCC's NSF-funded **Computing Innovation Fellows Programs with cohorts starting 2009, 2010, and 2011**, **CRA's Best Practices Memo on Computer Science Postdocs** and the **Computing Innovation Fellows 2020 Project**.

Similar to last year, the CIFellows 2021 awardees will receive a two year postdoctoral opportunity in computing, with cohort activities to support career development and community building. Realizing there are still many unknowns with the pandemic and that situations are different across the nation, there will be some flexibility in the program.

Applicants must coordinate with one or more proposed mentors to create a Research Plan, CIFellowship Plan and Mentoring Plan. We encourage community members to use their networks to find potential matches. To help with this process, we have created an **Opportunity Board** for the CIFellows 2021 application cycle.

Details of the program can be found on our website. We held an informational webinar on Thursday, April 15th for the community. Please **see the recording here**. Applications need to be registered by May 10 and completed by May 17. Decisions will be made by July 1, 2021 for positions beginning fall, 2021 or winter, 2022. Please continue to check the website (<https://cifellows2021.org>) for continued updates and details.

Reflections on Black in Computing

By Quincy Brown, Tyrone Grandison, Jamika D. Burge, Odest Chadwicke Jenkins, Tawanna Dillahunt

In June 2020, a community of Black people in computing from around the world published an open letter,¹ initiated by the authors, and a call for action² to the global computing community. The letter began with, “The recent killing of George Floyd by Minneapolis Police has sparked a movement that began at the birth of our nation. Though George Floyd may have been the most recent instance, we should not forget the lives of Breonna Taylor, Ahmaud Arbery, Nina Pop, Tony McDade, Sandra Bland, Trayvon Martin, Aiyana Stanley-Jones, Philando Castille, Tanisha Anderson, Atatiana Jefferson, Eric Garner, Charleena Lyles, Eula Love, Michael Brown, Khalif Browder, Botham Jean, Tamir Rice, Latasha Harlins, Amadou Diallo, Mary Turner, Emmett Till, and too many other Black people who have been murdered...”

At the time, we reflected on this history of the killing of Black people in the U.S. and noted that these killings not only show the ultimate outcomes and harms that racist systems and institutions have on Black people, but they also spotlight the constant emotional and psychological strain that Black Americans endure. The accumulated experience of the Black computer science community highlights the magnitude of injustices that countless members of our community experience. During the course of performing our jobs, we endure general mistreatment and we face a lack of support, demonization, and erasure of our (Black) academic and professional expertise. We know it is important that we persist in raising concerns about discrimination and prejudices that Black professionals experience, which are often common practice in the field. Further, we are acutely aware that organizational policies are currently optimized to exclude non-white males.

After our call to action, more than 700 signatures from individuals representing the breadth and depth of the computing and technology communities were received. People from academia, industry, government, and nonprofit sectors signed, in solidarity, with the sentiment that we must do more. Accompanying the letter and call to action was a definitive list of actionable steps individuals and organizations can take to redress systemic racism that exists in our profession, and beyond.

Months Later

As we all grappled with the compounding and collective grief of the pandemic and institutional harm done to Black people in the U.S. and in other majority white countries, there were a plethora of statements made in support of Black employees, students, business owners, and founders, as well as the broader Black Lives Matter movement. Months later, as we reflect on those statements (and their promises), we are curious about the action, the follow-up, and the changes in policy and practice that will institutionalize the commitments, catalyze the change needed, support Black lives, and create an environment that is equitable and fair for all. To date, there has been little real action beyond initial statements.

As students, teachers, mathematicians, scientists, technologists, and engineers, we learn there is no need for “culture” in our field. Ones and zeros, the scientific method, and meritocracy form the basis of our discipline. Computing is “neutral.” We know this is not true, which means that computing, as an institution, is still a long way from realizing its promise to make the world a better place. We also know that our field does not exist in a vacuum. The structural and institutional racism that has brought the nation to this point is also rooted in our discipline. We see AI and big data used to target the historically disadvantaged. The technologies we help create to benefit society are also disrupting Black communities through the embodiment of systemic bias, prejudice, and the proliferation of racial profiling. We see machine learning algorithms – rather, those who are developing the algorithms – routinely identify Black people as animals and criminals. Technology that we develop is used to further intergenerational inequality by systematizing segregation in housing, lending, admissions, policymaking, healthcare, and hiring practices.

Black in Computing (*continued*)

We know better. We are not fooled by the doublespeak, the pleas of ignorance, and the excuses for the technological systems that are deployed into the world. We know that the advances in computing are transforming the way we all live, work, and learn. We also know that we cannot ask for equal opportunity for anyone without demanding equal opportunity for everyone. We know that in the same way computing can be used to stack the deck against Black people, it can also be used to stack the deck against anyone.

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Call to Action

Today, we are issuing another call to action to the individuals, organizations, educational institutions, and companies in the computing ecosystem to address the systemic and structural inequities that Black people experience. In issuing this call we ask the community to:

- Create unbiased and welcoming learning and work environments that allow Black people to be their authentic and whole selves, learning and working without experiencing racism and bias.
- Commit to addressing the systemic and institutional racism that has led Black people in computing to be pushed out of the field or to exit the field to pursue alternative careers.
- Address issues related to corporate, organizational, and educational culture and climate to create welcoming and comfortable spaces for Black people and prioritize the health and well-being of all computing students, employees, faculty, volunteers, and entrepreneurs.

There is a role for each of us to build stronger, more creative, and more inclusive communities, as described here.

Individuals can acknowledge the presence of Black colleagues, be open to new ideas and perspectives, and be their advocate or ally in times of discrimination and otherwise. Everyone can reflect on privileges they might have such that we can move toward eliminating double standards.

Educational Institutions can ensure that perpetrators of a toxic environment face consequences for their actions and that the injured parties are supported, not blamed, ostracized, and forced out. They also can reset their procedures and systems to be equitable and just, ensuring institutional power does not enable the subjective mistreatment of Black students, employees, postdocs, and faculty. They can integrate an equitable, fair, and just racial lens to every major milestone along the academic path to ensure that bias, prejudice, and discrimination do not play a part in anyone's journey.

Organizations that receive public funding can ensure they are providing equal opportunity in compliance with existing civil rights statutes, including but not limited to the Civil Rights Act of 1964, the Education Amendments Act of 1972, and the Americans with Disabilities Act of 1990. They must also go beyond compliance and lip service to implementing systems and policies that realize actual outcomes that demonstrate progress on attracting, supporting, keeping, and promoting Blacks.

Corporations can start taking meaningful actions toward solving the racism problem that permeates their culture, leadership, staff, and tools. Publishing diversity metrics and issuing statements of performative progressiveness have not yielded progress or improved the lives of Black employees and entrepreneurs. Corporations need to change, positively, and/or eliminate policies and procedures that are weaponized against Blacks. They also need to consistently and fairly hold those that cause harm accountable.

Black in Computing (*continued*)

Communities can establish equal opportunity review structures that are responsible for collecting and analyzing data to certify equitable outcomes by institutions, companies, and organizations in computing. These communities must also offer support and be strong voices for change and agents of actions for those who are harmed.

As we did in June 2020, we ask that you translate the public statements³ into public action to support the Black professional communities toward achieving systemic fairness in computing.

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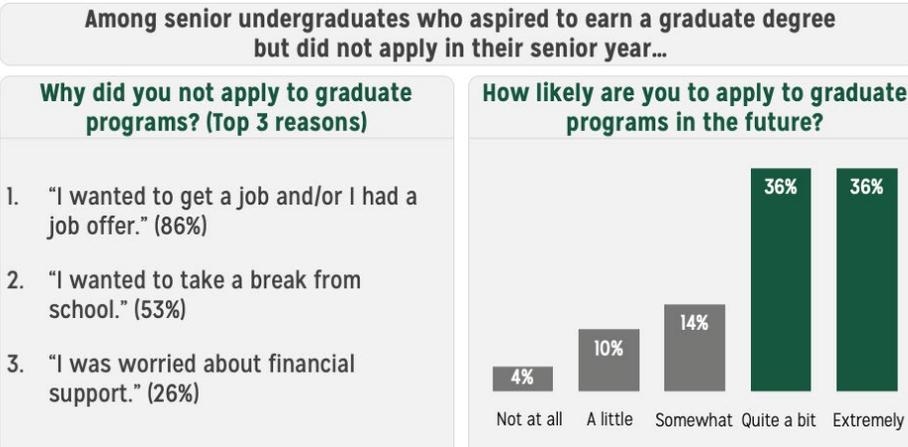
¹ See <https://blackincomputing.org>

² See <https://blackincomputing.org/action-item-list>

³ See <https://bit.ly/3s3nDsv>

Senior Undergraduates Who Did Not Apply to Graduate School Waited Because of a Job, but Most Are Likely to Apply in the Future

By Heather M. Wright, Associate Director of CERP



Note: Sample ($n = 129$) includes undergraduate students who (a) were graduating with their bachelor's degree during spring 2019, (b) aspired to attain a master's or doctoral degree, and (c) did not apply to graduate school in their senior year. Source: Data Buddies Survey (DBS) 2019. Center for Evaluating the Research Pipeline. Computing Research Association.

In the [January 2021 issue of CRN](#), CERP published an [infographic](#) showing the percentage of senior undergraduates who aspired for a master's or doctoral degree cross-tabulated by whether they actually applied to those programs in their last year of college. Results indicated that 66% of students who aspired for a master's degree and 37% of students who aspired for a doctoral degree did not apply to any programs in their senior year.

CRN readers were interested in the reasons why those students did not apply to graduate school. In this follow-up analysis, we explore that question. Using the same sample of senior undergraduate students aspiring to attain a graduate degree [1], CERP analyzed responses to the following question: "Why did you not apply to any graduate programs during the 2018-2019 school year? Select all that apply." [2]

Results indicate the top three reasons these students did not apply to graduate school in their final year of college were the following:

1. "I wanted to get a job and/or I had a job offer." Selected by 86% of respondents.
2. "I wanted to take a break from school." Selected by 53% of respondents.
3. "I was worried about financial support." Selected by 26% of respondents.

Following that question, CERP also assessed the likelihood that these students would apply to graduate school in the future. Results indicate that 72% of respondents were either "quite a bit likely" or "extremely likely" to apply to graduate school in the future. These results are promising: students' goals for attending graduate school were still in the horizon, even though they were not applying to graduate school immediately.

Just recently, the National Science Foundation (NSF) created the [CSGrad4US Fellowship program](#), aimed at providing opportunities for "bachelor's degree holders who may be working in industry or other sectors to return to academia and pursue research-based doctoral

degrees" [3]. Fellowship programs like this one make going back to graduate school possible, especially for those who are worried about financial support.

Notes:

[1] During the spring of 2019, CERP surveyed a sample of undergraduate students graduating with their bachelor's degree ($n = 686$). CERP selected a sub-sample of students with aspirations to earn a graduate-level degree ($n = 288$).

[2] This question was displayed to only students who indicated they did not apply to any graduate programs during the 2018-2019 year. The sub-sample of students with aspirations to earn a graduate-level degree who also did not apply to any graduate programs is $n = 129$.

[3] See <https://www.nsf.gov/cise/CSGrad4US/>

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](#). Volunteer for Data Buddies by signing up [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.

Expanding the Pipeline: Gaining Momentum through Research on Diversity in Undergraduate Computing



By *Linda J. Sax and Kathleen J. Lehman, UCLA*

Five years ago, [we wrote in this column](#) about the research our team was initiating on the [BRAID](#) (Building Recruiting and Inclusion for Diversity) initiative, a coordinated effort among 15 universities to increase representation among women and Students of Color in their undergraduate computing programs. Over these past five years, the BRAID institutions have indeed made significant strides towards greater diversity. Collectively, while BRAID departments experienced an 87% increase in overall undergraduate computing enrollments, such increases were even larger among women (139%), BLI (Black, Latinx, and Indigenous) students (106%), and BLI women (127%). While there is much more work to be done in order to achieve gender and racial/ethnic *parity* in computing representation (not to mention fostering more inclusive environments), these figures certainly reflect progress. Further, such progress was not experienced by BRAID institutions alone, as data from the nationwide [CRA Taulbee Survey](#) during this same time period also show significant gains in representation among women and underrepresented Students of Color.

Data on representation tells us something about the “what”—Are departments making progress toward achieving greater diversity?—but we are also driven in our research to understand the “why”: What are the conditions that facilitate change? What the conditions that impede it? Since 2014, our team has conducted in-depth research with the BRAID institutions and beyond to investigate these questions that pertain to the “whys” of broadening participation in computing.

In 2020, we established [Momentum: Accelerating Equity in Computing and Technology](#) at UCLA as a place to examine a broad range of issues and questions around broadening participation in computing (BPC). The overview below provides a high-level view of the kinds of questions we are addressing in our research at Momentum.

What can we learn about computing-related outcomes for students enrolling in introductory computing courses?

A cornerstone of our research with BRAID institutions has been the administration of baseline and annual follow-up surveys to students taking introductory computing courses. Over 10,000

students have responded to these surveys, enabling us to conduct several studies focusing on specific student populations or desirable outcomes. In published work, we have examined the academic [major and minor affiliations](#) of intro computing students, the conditions that promote a [sense of belonging](#) among students in computing, as well as the experiences of students who are [undecided](#) about their major or are “[latecomers](#)” to computing (taking their intro course in their third year or beyond). Papers currently in preparation focus on understanding students’ experiences and pathways beyond the intro course, especially in regards to their persistence in computing majors and their pursuit of graduate degrees or careers in computing fields, while also attending to intersectionality in the computing student experience (e.g., focusing specifically on the experiences of Latina computing students).

We have learned a great deal from our BRAID student survey data about the factors that promote desirable outcomes for computing students. Our research confirms some of what was already known: individual factors, particularly students’ gender and prior computing experience, are influential in shaping student outcomes, even when controlling for a host of other factors. While computing departments cannot make up for structural inequalities that influence women’s and racially/ethnically minoritized students’ access to and experiences around computing prior to college, our research provides new evidence of intermediary factors that can promote positive outcomes for students from underrepresented groups. Across our research, we have found two broad categories of factors that consistently emerged as important for recruiting and retaining students in computing fields, including students’ *beliefs around computing and their place in it* (e.g., sense of belonging in computing, computing identity, and computing self-efficacy) and *networks of support*.

Students’ beliefs around their place in computing are central to outcomes such as recruiting undecided students to computing majors and promoting persistence in computing majors, student aspirations to pursue a computing career, and student aspirations to pursue graduate school in computing. Our research suggests that gender plays a role in students’ beliefs



Expanding the Pipeline *(continued)*

about their fit in computing, with men coming to CSI courses with a higher sense of belonging in computing than women, a gender gap that widens by the end of the intro course.

Students' support systems, particularly students' relationships and experiences with their peers in computing, are among the most important factors in their sustained interest in computing through college and into graduate school or the workforce. For instance, our research shows that peer support is a positive predictor of students' sense of belonging at the end of the CS intro course and of initially undecided students' decision to choose a computing major by the end of CSI. Further, the more time that students spend in computing groups and organizations, the more likely they are to aspire to a computing career or graduate school in computing. Put simply, a great deal of good comes from fostering strong, supportive communities among computing students.

What can we learn from departmental stakeholders about diversity efforts?

An invaluable source of information on the departmental change process is the department chair. Over the past five years, our team has annually conducted interviews with computing department chairs at BRAID institutions. In our [first publication](#) stemming from these interviews, we reported on how department chairs in the earliest stages of BRAID made meaning of the lack of diversity in their departments and the various ways in which they approached their BPC efforts. We reported on the degree to which department chairs' leadership approaches reflected different phases of diversity work, from mobilization to implementation to institutionalization. In a [second publication](#) based on these interviews, we shared more about the progress that chairs were making by the second year of BRAID, primarily moving from a state of mobilization to an active state of implementation, with a goal of institutionalizing change. The chairs described this period as a time of building momentum, as they increased their understanding of issues they were facing, fluency in describing their goals to others, and confidence about their ability to effect change. Our team is presently writing up what we are learning from the chairs during the more recent years of BRAID (in particular how they describe and respond to the external dynamics that shape diversity efforts within their department).

We are also engaged in in-depth case studies with several BRAID institutions to understand the ways in which additional stakeholders—students, faculty, and staff—work to advance diversity efforts in the context of booming enrollments in undergraduate computing. This project draws on 55 interviews across four research sites. Findings suggest that departments were largely thinking about broadening participation efforts separately from work to manage growing enrollments. The paper argues that separating out diversity work from core priorities in the department may hinder departments' ability to sustain BPC efforts into the future. Instead, it is imperative that stakeholders understand how departmental responses to dynamic external forces (e.g., booming enrollments, shifting realities related to COVID-19) impact diversity efforts.

Exploring lingering questions: What can we learn from the CIC initiative?

Despite all that we have learned from the BRAID initiative, we are left with many questions: *How* do we promote and foster students' computing identities and computing self-efficacy? *How* do students' peer networks support their continued interest in computing? *How* and *why* do certain teaching approaches sometimes push students away from computing? We also have unanticipated questions in light of Covid-19, like what can we learn about how students' variety of living and learning conditions relate to their sense of belonging and interest in computing? Finally, and central to all of these questions, is the issue of how these various dynamics operate for women and racially/ethnically minoritized students.

As such, we are presently embarking on a longitudinal research study of students attending institutions participating in Northeastern University's Center for Inclusive Computing (CIC) Best Practice Initiative. CIC provides large grants to institutions that graduate over 200 computing students annually in order to scale up "best practices" in BPC. In spring 2021 we are administering baseline surveys to first- and second-year computing students at CIC institutions and plan to conduct follow-up surveys with all respondents in 2023 and 2025. These surveys will build from the BRAID surveys but will probe more deeply on the questions listed above in order to provide additional actionable recommendations to institutions engaged in BPC work.



Expanding the Pipeline (*continued*)

How can we help the broader BPC community stay on top of emerging research?

Our work at Momentum is also motivated by a desire to connect researchers and practitioners with the broad range of BPC scholarship that exists, but may be difficult to locate. As such, we are developing a comprehensive repository of scholarly articles published in the last 15 years that advance the empirical and theoretical knowledge around BPC in the United States. The database, which will eventually be available and searchable through BPCnet.org, will enable users to access a wide range of published scholarship on BPC, from theories regarding persistent inequities in computing to scholarship on specific BPC interventions.

Finally, given the volume of work mentioned above, and the many other Momentum projects not listed, it should go without saying that all of this is a team effort. Momentum researchers include full-time academics, post-doctoral scholars, graduate students, and external collaborators. This diverse and talented team has produced important scholarship, developed innovative systems for managing quantitative and qualitative data, and has demonstrated an unwavering commitment to ensuring that our work is mindful of—and seeks to redress—the larger systemic forces of racism and sexism that pose barriers for marginalized students in computing and beyond.

About the authors:

Linda J. Sax is a Professor of Higher Education and Organizational Change in the UCLA School of Education & Information Studies and Founding Director of *Momentum: Accelerating Equity in Computing and Technology*. She serves as PI for all Momentum research projects.

Kathleen J. Lehman is an Assistant Academic Researcher in UCLA's School of Education & Information Studies and Associate Director at *Momentum*, where she serves as co-PI of the NSF-funded broadening participation literature database, as well as the team's work with the Center for Inclusive Computing.

Support for *Momentum* and its research projects has been provided by: AnitaB.org, the National Science Foundation (NSF #1525737, #1936735, #2039800), the Computing Research Association (CRA), the Kapor Center, and Pivotal Ventures.

Pandemic Informatics: Vaccine Distribution, Logistics, and Prioritization



CCC

Computing Community Consortium
Catalyst

By CCC Staff

Contributions to this post were provided by Elizabeth Bradley (University of Colorado Boulder), Madhav Marathe (University of Virginia), Melanie Moses (The University of New Mexico), William D Gropp (University of Illinois Urbana-Champaign), and Daniel Lopresti (Lehigh University).

In Fall 2020, the **Computing Research Association** released a series of planned white papers produced through its subcommittees (including the **Computing Community Consortium**), exploring areas and issues around computing research with the potential to address national priorities over the next four years. Called **Quadrennial Papers**, the white papers attempt to portray a broad picture of computing research detailing potential research directions, challenges, and recommendations for policymakers and the computing research community.

One of those white papers ***Pandemic Informatics: Preparation, Robustness, and Resilience*** outlined a strategy to reduce the impact of global pandemics stressing early detection, predicting the public's reaction and developing effective policies.

Several months later, the pandemic is still ongoing but we are facing a new and different set of challenges that are both surprising and yet also somehow predictable. The authors of the paper have produced a **March 22nd, 2021 Addendum** to address current issues.

In November, multiple companies announced successful trials of COVID vaccines. This was welcome news – it told us that we finally had a pharmaceutical solution that can be used to manage the pandemic. While vaccine development was extremely successful, the distribution of vaccines has turned out to be tumultuous and chaotic. One major reason for this has been vaccine prioritization.

Computer science research has the ability to solve or address a number of the issues that arose with vaccine prioritization, through automated systems and developing high-quality, scalable community-developed open-source reference designs.

See the [March 22nd, 2021 Pandemic Informatics: Preparation, Robustness, and Resilience Addendum](#) here for more details.

CIFellows Spotlight: Improving System Efficiency and Reliability with Causal Learning

By CCC Staff

The *Computing Community Consortium (CCC)* is excited to announce the new website feature, “CIFellows Spotlight”, which will highlight the work of the *Computing Innovation Fellows (CIFellows)* going forward. Announced in May 2020, the CIFellows program was created, with strong support from NSF, to provide recent PhD graduates in computing research with the opportunity to continue their work despite the hiring disruptions in academic institutions due to COVID-19. These articles will give the CIFellows the opportunity to share their work with the community and dive deeper into the details of their current project(s).



Yi Ding began her **CIFellowship** in January 2021 after receiving her PhD from **University of Chicago** this past December. Ding is at the **Massachusetts Institute of Technology**, working with **Michael Carbin**, Assistant Professor of **Electrical Engineering & Computer Science** and leader of the **Programming Systems Group**.

Current Project: Improving computer systems through casual learning

The increasing configurability in modern computing systems makes it challenging for system users to tune performance due to its high complexity and error-proneness. Machine learning (ML) creates an opportunity to alleviate this burden by

modeling resources' complicated, non-linear interactions and deliver an optimal solution to scheduling and resource management problems. However, naively applying traditional ML methods, such as deep learning, creates several challenges including generalizability, robustness, and interpretability. My research aims to tackle these challenges with underlying system structure and causal inference techniques.

My current project is about improving efficiency and reliability for computer systems with causal learning. Specifically, I apply machine learning and causal inference techniques to investigate the design and implementation of computer systems that operate in the presence of uncertainty in their environment, implementation, or execution.

Impact

ML has influenced a lot of recent systems research including providing systems support for ML and applying ML to solve systems problems. To further produce generalizable, robust, and interpretable results, it is crucial to understand the underlying structure of system problems by incorporating causal inference. My work will have a large effect on system

users by providing more reliable and trustworthy systems. This research will also lower the required expertise for system users and developers by providing more flexible system configuration tools. Broadly, as access to computing becomes increasingly valuable in science and society, the improved system efficiency and usability that my work offers will make it possible to put computing in the hands of more people.

Additional Research

I advocate for diversity and inclusion in computer science research. I believe voices from many backgrounds and identities make us more effective at identifying and solving important problems.

I am broadly interested in ML and causal inference, and their applications in various domains. For instance, I have been collaborating with neuroscientists to study the causal relationships between environment and crime. I provided a quantitative analysis tool in this process and the preliminary results have been accepted to **npj Urban Sustainability**, a nature research journal. I have also been working with chemists on applying ML to analyze protein binding simulations.

CCC Releases Additional Quadrennial Papers on Smart Technologies for Older Adults and the Integration of Citizen Science and Crowdsourcing with AI and IoT



CCC

Computing Community Consortium
Catalyst

By CCC Staff

In October 2020, the **Computing Research Association** (CRA) and the **Computing Community Consortium** (CCC) released more than a dozen white papers exploring areas and issues around computing research with the potential to address national priorities over the next four years. Called “Quadrennial Papers,” the white papers attempt to portray a broad picture of computing research detailing potential research directions, challenges, and recommendations for policymakers and the computing research community.

As a continuation of our 2020 series, we are delighted to release two more papers titled: “Taking Stock of the Present and Future of Smart Technologies for Older Adults and Caregivers” and “Imagine All the People: Citizen Science, Artificial Intelligence, and Computational Research.”

Baby Boomers are aging in place using consumer technologies to meet their needs. These technologies, however, are not always accessible or as useful as they could be. The first paper on “**Taking Stock of the Present and Future of Smart Technologies for Older Adults and Caregivers**” advocates for older adults to be involved in the design process – from initial ideation to product development to deployment. “We encourage federally funded researchers and industry to create compensated, diverse older adult advisory boards to decrease incorrect stereotypes about aging while ensuring their needs are considered.”

The second paper, “**Imagine All the People: Citizen Science, Artificial Intelligence, and Computational Research**” highlights that while machine learning, artificial intelligence, and deep learning have advanced significantly over the past decade, to successfully tackle pressing scientific and societal challenges, we need the complementary capabilities of both humans and machines. “The Federal Government could accelerate its priorities on multiple fronts through judicious integration of citizen science and crowdsourcing with artificial intelligence (AI), Internet of Things (IoT), and cloud strategies.”

The CRA and CCC would like to thank all the authors, contributors, and reviewers who were part of the effort to bring these papers to fruition. **See all of the Quadrennial papers [here](#).**

Submit Requests for Supplemental Funding to the NSF CISE BPC Program

The Broadening Participation in Computing program (BPC) aims to significantly increase the number of U.S. citizens and permanent residents receiving post-secondary degrees in the computer and information science and engineering (CISE) disciplines, and to encourage participation of other groups underrepresented in the CISE disciplines.

PIs with active **Medium and Large CISE Core programs awards funded in the last three years (specifically pursuant to solicitations NSF 20-591, 19-589, 18-569, 18-568, and 18-570) are invited to submit supplemental funding requests** to engage more members of the CISE research community in significant BPC efforts as part of a project's BPC plan. These supplements will increase the participation of individuals underrepresented in the community participation in specific research areas. Supplemental funding requests for an existing BPC plan should either (a) extend the reach of current BPC activities that have some evidence of effectiveness to more participants or institutions; or (b) coordinate and institutionalize BPC activities within a department or similar unit.

The supplemental funding request should include the following information:

1. objectives and strategies for the proposed activities along with a timeline,
2. an evaluation and assessment plan that describes how to measure the outcomes of the proposed activities, and
3. the results of past BPC activities on this project.

The current approved BPC plan must be uploaded as a Supplementary Document.

Supplemental funding requests must: (a) be less than 20% of the original award amount; and (b) not exceed \$200,000. Supplements will not be given if they would require an extension beyond the expiration date of the original grant.

Interested PIs are strongly encouraged to contact both their cognizant NSF Program Director(s) and the BPC team at cise-bpc@nsf.gov by May 17. Supplement requests should be submitted by the BPC deadline (June 14).

Please refer to the CISE BPC solicitation ([NSF 21-571](#)) for more details. Send questions or concerns to cise-bpc@nsf.gov.



The AI Index: Emerging Trends in AI Education

By Saurabh Mishra, Stanford University

The fourth edition of the [AI Index Report](#) significantly expanded the amount of data and broadened the set of external organizations. The AI Index is a program at the Stanford's Institute for Human-Centered Artificial Intelligence (HAI) that tracks, collates, distills, and visualizes data related to artificial intelligence. Its mission is to provide unbiased, rigorously vetted, and globally sourced data for policymakers, researchers, executives, journalists, and the general public to develop intuitions about the complex field of AI. The report aims to be the world's most credible and authoritative source for data and insights about AI.

Global AI Vibrancy Tool: The fourth edition of the AI Index Report presents a revamped [Global AI Vibrancy Tool](#), allowing for better interactive visualization when comparing up to 26 countries across 23 indicators. The updated tool provides transparent evaluation of the relative position of countries based on users' preference; identifies relevant national indicators to guide policy priorities at a country level; and shows local centers of AI excellence for not just advanced economies but also emerging markets.

Measurement in AI Policy: In fall 2020, the AI Index published "[Measurement in AI Policy: Opportunities and Challenges](#)," a report that lays out a variety of AI measurement issues discussed at a conference hosted by the AI Index in fall 2019.

Top 5 Takeaways

- 1. The industry shift continues:** In 2019, 65% of graduating North American PhDs in AI went into industry—up from 44.4% in 2010, highlighting the greater role industry has begun to play in AI development.
- 2. Generative everything:** AI systems can now compose text, audio, and images to a sufficiently high standard that humans have a hard time telling the difference between synthetic and non-synthetic outputs for some constrained applications of the technology.
- 3. AI has a diversity challenge:** In 2019, 45% new U.S. resident AI PhD graduates were white—by comparison, 2.4% were African American and 3.2% were Hispanic.
- 4. The majority of the US AI PhD grads are from abroad - and they're staying in the US:** The percentage of international students among new AI PhDs in North America continued to rise in 2019, to 64.3%—a 4.3% increase from 2018. Among foreign graduates, 81.8% stayed in the United States and 8.6% have taken jobs outside the United States.
- 5. AI ethics lacks benchmarks and consensus:** Though a number of groups are producing a range of qualitative or normative outputs in the AI ethics domain, the field generally lacks benchmarks that can be used to measure or assess the relationship between broader societal discussions about technology development and the development of the technology itself. Furthermore, researchers and civil society view AI ethics as more important than industrial organizations.

AI Education Highlights

- An AI Index survey conducted in 2020 suggests that the world's top universities have increased their investment in AI education over the past four years. The number of courses that teach students the skills necessary to build or deploy a practical AI model on the undergraduate and graduate levels has increased by 102.9% and 41.7%, respectively, in the last four academic years.
- More AI PhD graduates in North America chose to work in industry in the past 10 years, while fewer opted for jobs in academia, according to an annual survey from the Computing Research Association (CRA). The share of new AI PhDs who chose industry jobs increased by 48% in the past decade, from 44.4% in 2010 to 65.7% in 2019. By contrast, the share of new AI PhDs entering academia dropped by 44%, from 42.1% in 2010 to 23.7% in 2019.

The AI Index *(continued)*

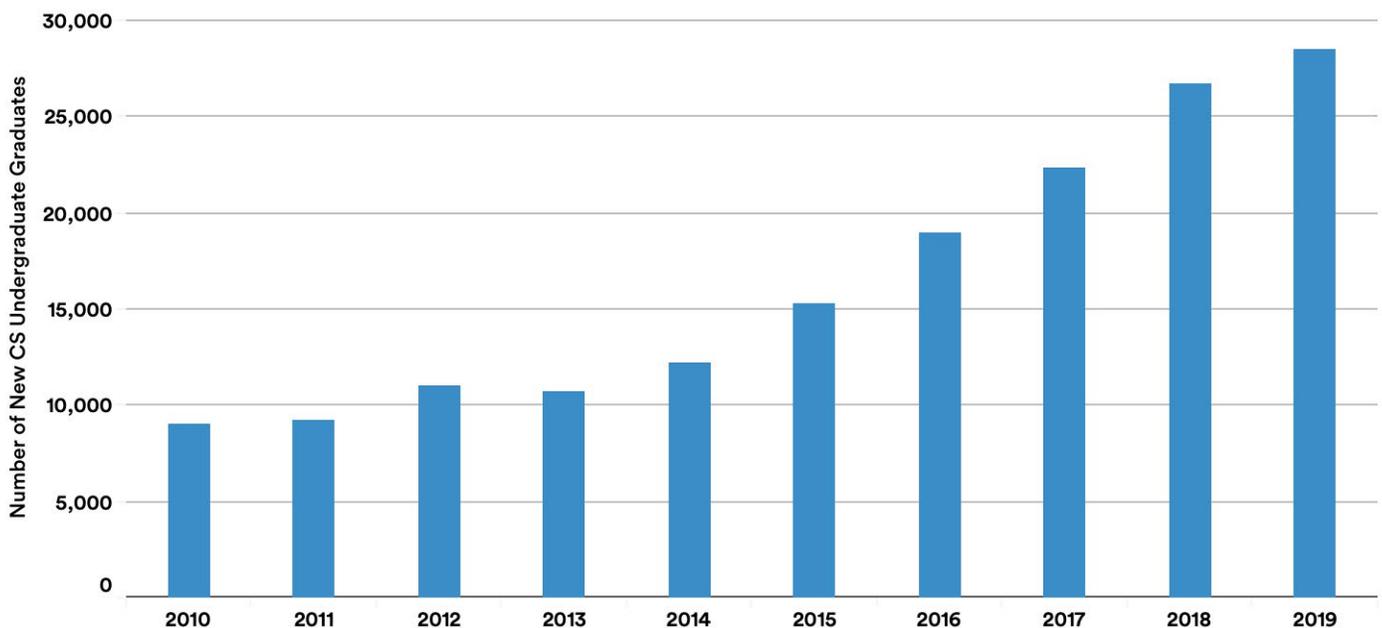
- In the last 10 years, AI-related PhDs have gone from 14.2% of the total of CS PhDs granted in the United States, to around 23% as of 2019, according to the CRA Taulbee Survey. At the same time, other previously popular CS PhDs have declined in popularity. Networking, software engineering, and programming languages / compilers all saw a reduction in PhDs granted relative to 2010, while AI and Robotics/ Vision specializations saw a substantial increase.
- After a two-year increase, the number of AI faculty departures from universities to industry jobs in North America dropped from 42 in 2018 to 33 in 2019 (28 of these are tenured faculty and five are untenured). Carnegie Mellon University had the largest number of AI faculty departures between 2004 and 2019 (16), followed by the Georgia Institute of Technology (14) and University of Washington (12).
- The percentage of international students among new AI PhDs in North America continued to rise in 2019, to 64.3%—a 4.3% increase from 2018. Among foreign graduates, 81.8% stayed in the United States and 8.6% have taken jobs outside the United States.
- In the European Union, the vast majority of specialized AI academic offerings are taught at the master’s level; robotics and automation is by far the most frequently taught course in the specialized bachelor’s and master’s programs, while machine learning (ML) dominates in the specialized short courses.

AI and CS Degree Graduates in North America

The annual [Taulbee Survey](#) from the Computing Research Association (CRA) documents trends in student enrollment, degree production, employment of graduates, and faculty salaries in academic units in the United States and Canada that grant doctoral degrees in computer science (CS), computer engineering (CE), or information (I). Academic units include departments of computer science and computer engineering or, in some cases, colleges or schools of information or computing. Most AI-related courses in North America are a part of the CS course offerings at the undergraduate level. The number of new CS undergraduate graduates at doctoral institutions in North America has grown steadily in the last 10 years (Figure 1). More than 28,000 undergraduates completed CS degrees in 2019, around three times higher than the number in 2010.

Number of NEW CS UNDERGRADUATE GRADUATES at DOCTORAL INSTITUTIONS in NORTH AMERICA, 2010-19

Source: CRA Taulbee Survey, 2020 | Chart: 2021 AI Index Report



(Figure 1)

The AI Index *(continued)*

New CS PhDs in the United States

The AI Index examines the trend of CS PhD graduates in the United States with a focus on those with AI-related specialties.¹ The CRA Taulbee Survey includes 20 specialties in total, two of which are directly related to the field of AI, including “artificial intelligence/machine learning” and “robotics/vision”.

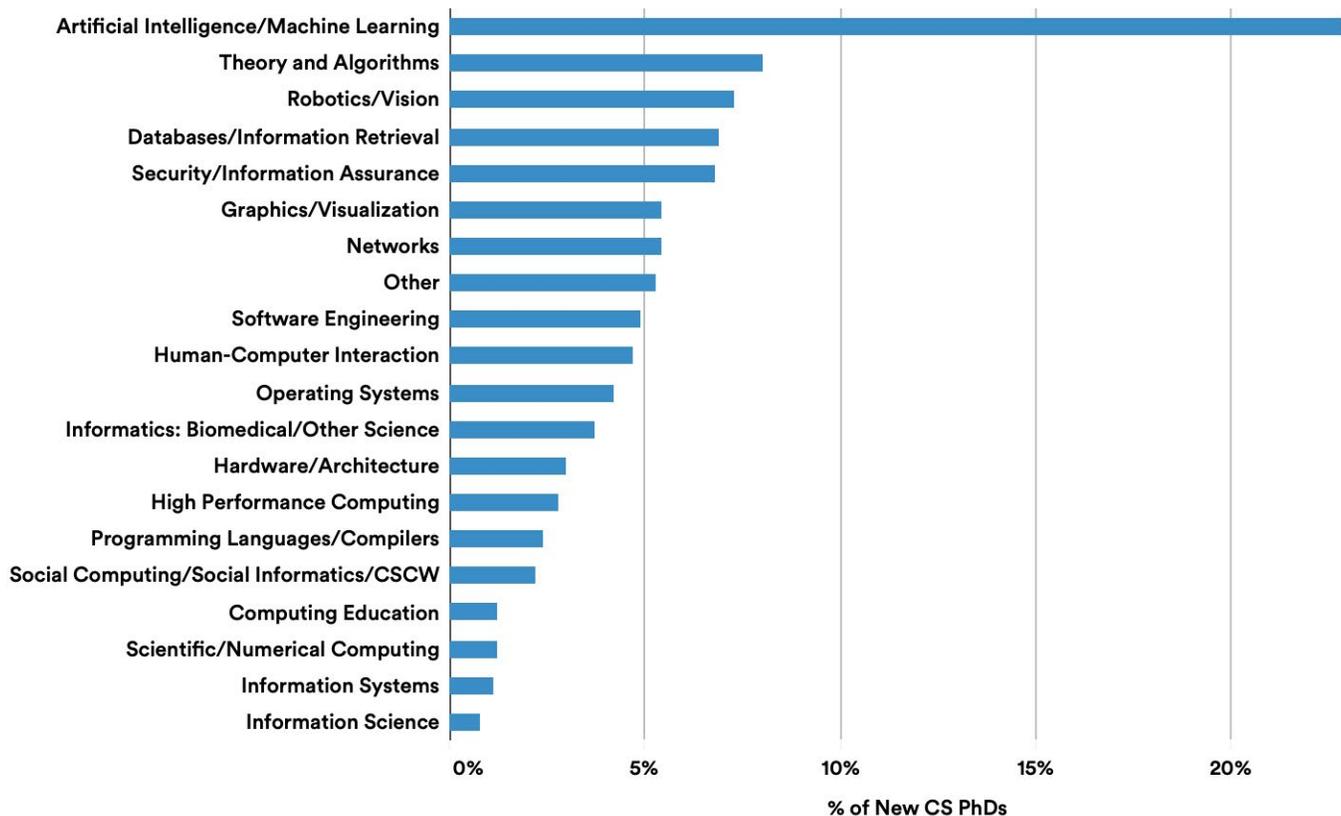
New CS PhDs by Specialty

Among all computer science PhD graduates in 2019, those who specialized in artificial intelligence/machine learning (22.8%), theory and algorithms (8.0%), and robotics/vision (7.3%) top the list (Figure 2.1). The AI/ML specialty has been the most popular in the past decade, and the number of AI/ML graduates in 2019 is higher than the number of the next five specialties combined. Moreover, robotics/vision jumped from the eighth most popular specialization in 2018 to the third in 2019.

Over the past 10 years, AI/ML and robotics/vision are the CS PhD specializations that exhibit the most significant growth, relative to 18 other specializations (Figure 2.2). The percentage of AI/ML-specialized CS PhD graduates among all new CS PhDs in 2020 is 8.6 percentage points (pp) larger than in 2010, followed by robotics/vision-specialized doctorates at 2.4 pp. By contrast, the share of CS PhDs specializing in networks (-4.8 pp), software engineering (-3.6 pp), and programming languages/compilers (-3.0 pp) experienced negative growth in 2020.

NEW CS PHDS (% of TOTAL) in the UNITED STATES by SPECIALITY, 2019

Source: CRA Taulbee Survey, 2020 | Chart: 2021 AI Index Report



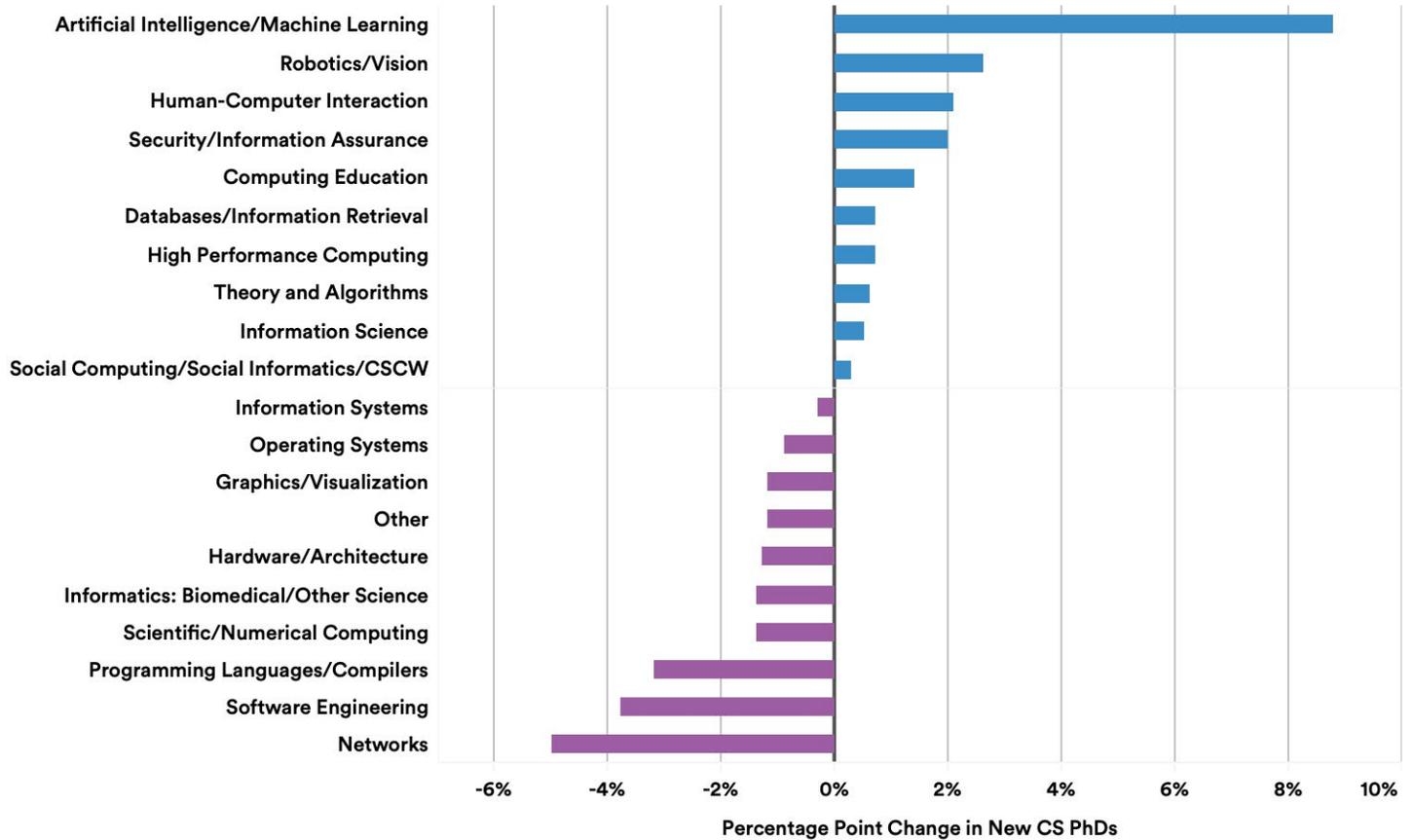
(Figure 2.1)

¹ New CS PhDs in this section include PhD graduates from academic units (departments, colleges, or schools within universities) of computer science in the United States.

The AI Index *(continued)*

PERCENTAGE POINT CHANGE in NEW CS PHDS in the UNITED STATES from 2010 to 2019 by SPECIALTY

Source: CRA Taulbee Survey, 2020 | Chart: 2021 AI Index Report



(Figure 2.2)

New AI PhDs Employment in North America

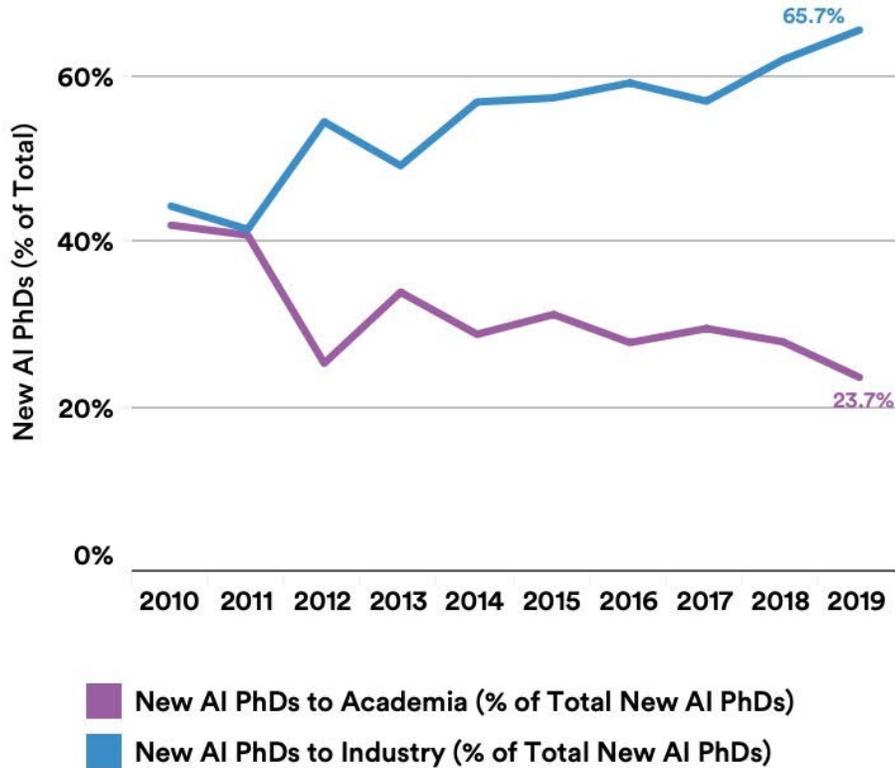
Where do new AI PhD graduates choose to work? This section captures the employment trends of new AI PhDs in academia and industry across North America.²

In the past 10 years, the number of new AI PhD graduates in North America who chose industry jobs continues to grow, as its share increased by 48%, from 44.4% in 2010 to 65.7% in 2019 (Figure 3). By contrast, the share of new AI PhDs entering academia dropped by 44%, from 42.1% in 2010 to 23.7% in 2019. These changes are largely a reflection of the fact that the number of PhD graduates entering academia has remained roughly level through the decade, while the large increase in PhD output is primarily being absorbed by the industry.

² New AI PhDs in this section include PhD graduates who specialize in artificial intelligence from academic units (departments, colleges, or schools within universities) of computer science, computer engineering, and information in the United States and Canada.

EMPLOYMENT of NEW AI PHDS (% of TOTAL) to ACADEMIA or INDUSTRY in NORTH AMERICA, 2010-19

Source: CRA Taulbee Survey, 2020 | Chart: 2021 AI Index Report



(Figure 3)

New International AI PhDs

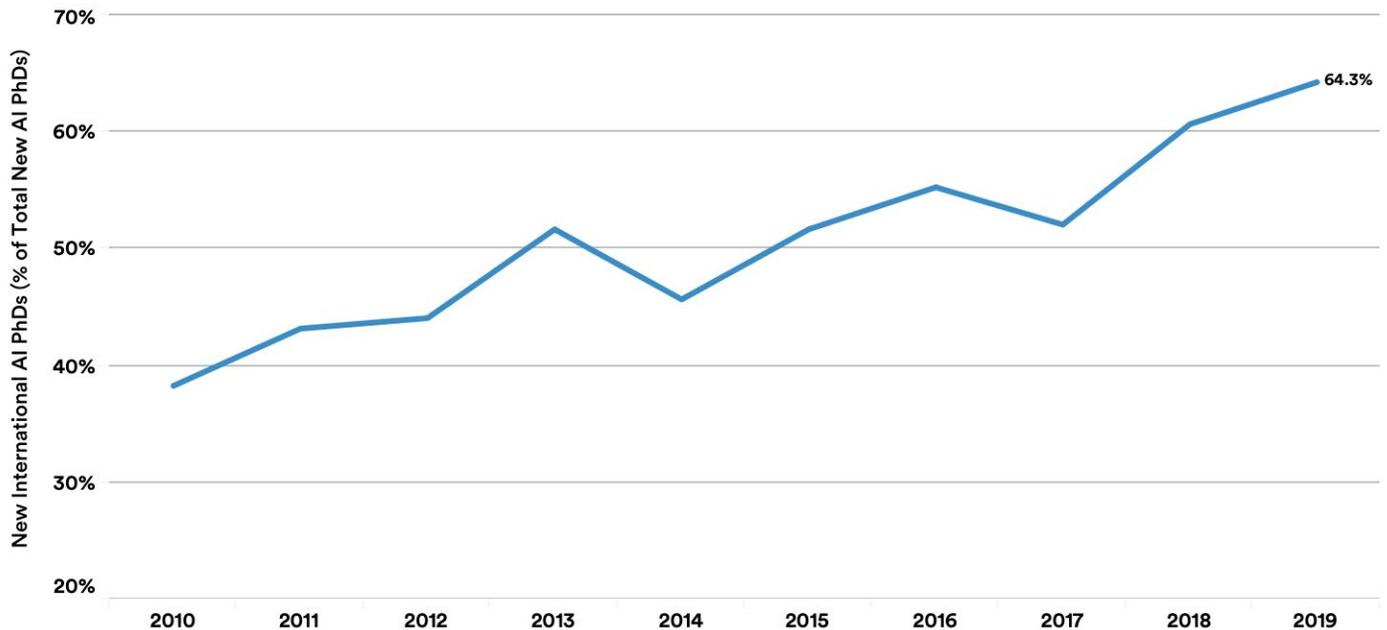
The percentage of international students among new AI PhD graduates in North America continued to rise in 2019, to 64.3%—a 4.3 percentage point increase from 2018 (Figure 4). For comparison, of all PhDs with a known specialty area, 63.4% of computer engineering, 59.6% of computer science, and 29.5% of information recipients are international students in 2019.

Moreover, among foreign AI PhD graduates in 2019 in the United States specifically, 81.8% stayed in the United States for employment and 8.6% have taken jobs outside the United States. In comparison, among all international student graduates with known specialties, 77.9% have stayed in the United States while 10.4% were employed elsewhere.

The AI Index *(continued)*

NEW INTERNATIONAL AI PHDS (% of TOTAL NEW AI PHDS) in NORTH AMERICA, 2010-19

Source: CRA Taulbee Survey, 2020 | Chart: 2021 AI Index Report



(Figure 4)

About the Author

Saurabh Mishra is a researcher and Manager of the AI Index Program at Stanford Institute for Human-Centered Artificial Intelligence (HAI). The AI Index grounds the public narrative on AI using a data-driven approach.

His research is at the intersection of AI, economics, and decision-making. He is leading pioneering projects using AI to inform strategic resource allocation decisions.

Before joining Stanford, Mishra served as an economist at the World Bank, International Monetary Fund (IMF), and International Finance Corporation (IFC). Mishra has consulted for diverse international institutions including Organization for Economic Co-operation and Development (OECD), World Trade Organization (WTO), and advises startups and funds.

Among his contributions, he pioneered research on the role of the hi-tech service sector in economic diversification, structural transformation, economic growth and development. His research has been cited by several leading media including The Financial Times, The Economist, Bloomberg, Live Mint.

He holds a BA in Economics, MS in Applied Economics and Finance from the University of California Santa Cruz, and PhD in Reliability Engineering from the University of Maryland College Park.

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Patty Lopez, Intel

Auburn University

Postdoctoral Researcher in Explainable AI

Artificial Intelligence (AI) has been transforming many industries including health care, transportation, and mobile computing. It is important for AI models to explain their decisions in health care, legal, and any applications where humans are in the loop.

Anh Nguyen's lab at Auburn University is looking for postdoctoral researchers to work on advancing the state-of-the-art Explainable AI frontiers, in the intersection of Machine Learning, Causal Reasoning, and Human-Computer Interaction.

Our lab members have previously won multiple Best Paper Awards (CVPR 15, GECCO 15, ICML Visualization workshop 16), Best Application Paper Honorable Mention (ACCV 20), and Best Research Video Awards (IJCAI and AAAI 16). Our work has also been repeatedly featured in MIT Technology Review, Nature, Scientific American, and deep learning lectures across various institutions.

Auburn University is one of the nation's premier, public, Carnegie R1 research, and land-grant institutions. The Computer Science and Software Engineering has 33 faculty and is ranked among the top 100 CS programs in the nation by US News. Auburn is a small, friendly college town, less than 2 hours from Atlanta and 4 hours from the southern beaches. Auburn has been previously ranked by CNNMoney, US News, and Forbes as one of the best small cities to live in America.

+ Preferred qualifications: A track record of research papers in any of the following areas: Computer Vision, NLP, ML, or XAI.

Application and more info:

<http://anhnguyen.me/recruiting>

Baidu USA

Postdoctoral Researchers in Cognitive Computing

Baidu Research Cognitive Computing Lab (CCL) is looking for outstanding researchers with strong background in machine learning, statistics, applied mathematics, systems, databases, NLP, computer vision, security, theoretical computer science, etc. Our mission is to develop next generation cognitive computing technologies for better connecting billions of users to services. Our postdoctoral researchers are expected to focus on basic research in broad AI-related fields. This would be an excellent opportunity for fresh PhD graduates in CS, Statistics, EE, Amath, etc., to spend 1 - 3 years in an industrial research environment to prepare for their long-term research careers either in academia or research labs.

Qualifications:

1. PhD in Computer Science, Statistics, Electrical Engineering, Mathematics, Operation Research, or related fields.
2. Excellent publication record in major CS conferences or premier Stat/EE/SIAM journals. Examples are CVPR, FOCS, KDD, ACL, WWW, ICML, SIGMOD, JMLR, PAMI, IEEE

Info. Theory, major statistics/mathematics journals, SIAM J. Computing, SIAM J. Optimization, etc.

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

Locations: Bellevue WA, Sunnyvale CA, or Beijing China. Please send CV to ccl-job@baidu.com

Barnard College

Associate Director for the Vagelos Computational Science Center

Barnard College seeks a full-time associate director for the Vagelos Computational Science Center (CSC). Barnard is a premier liberal arts undergraduate college for women in New York City affiliated with Columbia University. As part of the Milstein Center for Teaching and Learning, the CSC facilitates the understanding, exploration, and use of computational science and technology. Taking an intentionally broad approach to computing and its use, the CSC runs workshops for students, staff, and faculty to learn the power of, and develop practical skills in, computational and data science; supports courses and develops student leadership through an undergraduate Computing Fellows program, and develops community to engage students and enhance diversity in computation and the sciences.

Reporting to the Faculty Director of the CSC and working closely with faculty, staff, and students across the College,

the Associate Director plays a key role in promoting computational science at Barnard and supporting faculty, staff, and students to engage with computing in meaningful ways across all disciplines. A particular focus is helping undergraduate students become confident and proficient with the use of computation to help them address scientific questions, analyze data to inform their work and engage in critical inquiry in the context of a liberal arts education. Candidates should have a graduate degree in computer science or a related field, or in education or library science, and experience with coding and computing applications.

More information is available at <https://csc.barnard.edu/associate-director-vagos-computational-science-center-csc>. Applications should be submitted electronically at <https://careers.barnard.edu/postings/5297> and should include a cover letter describing the candidate's interest in and qualifications for the position, a curriculum vitae, and contact information for three references.

Brown University

Postdoctoral Research Associate in Statistical Machine Learning

The Division of Applied Mathematics at Brown University is accepting applications for a postdoctoral research associate in statistical machine learning to join a NASA-funded effort to generate new methods for data generation and prediction using spaceborne lidar data.

Apply at <https://www.mathjobs.org/jobs/list/17404>

City University of Hong Kong

Professor/Associate Professor/Assistant Professor

Worldwide Search for Talent

City University of Hong Kong is a dynamic, fast-growing university that is pursuing excellence in research and professional education. As a publicly funded institution, the University is committed to nurturing and developing students' talents and creating applicable knowledge to support social and economic advancement.

Professor/Associate Professor/Assistant Professor Department of Computer Science

[Ref. A/430/09]

The Department of Computer Science has internationally known research groups in a number of areas, including bioinformatics, cloud computing, evolutionary computation, information security, machine learning and data science, mobile computing, multimedia computing and graphics, and software engineering. The Department is ranked the 13th best Computer Science Department globally by the US News & World Report (2020).

For further details, please visit <http://www.cityu.edu.hk/hro/en/job/current/academic.asp?ref=uac-a430>.

City University of Hong Kong is an equal opportunity employer and we are committed to the principle of diversity. Personal data provided by applicants will be used for recruitment and other employment-related purposes.

Colgate University

Visiting Assistant Professor of Computer Science

The Department of Computer Science at Colgate University invites applications for three Visiting Assistant Professor positions beginning fall semester 2021. Appointments will be for one year with the possibility for renewal. We encourage candidates in all areas of specialization to apply. Completion of a Ph.D. is expected prior to or shortly after the date of hire.

In each semester, visiting professors can expect to teach two-course sections plus one or two labs (three labs over two semesters). To support the candidate's scholarship, Colgate offers funding opportunities to attend professional meetings, for professional development, and for students to participate in the candidate's research projects.

A cover letter, curriculum vitae, teaching statement, research statement, and the names of three references must be submitted through <https://academicjobsonline.org/ajo/jobs/18101>. The cover letter should indicate courses for which the candidate has teaching interests (see <http://www.cs.colgate.edu> for a list; additional elective topics may also be proposed). Colgate strives to be a community supportive of diverse perspectives and identities. Candidates must describe in their cover letter or teaching statement how their teaching supports the university's commitment to diversity and inclusion.

Review of applications will begin March 1, 2021, and will continue until available

positions are filled. Applicants with dual-career considerations can find postings of other employment opportunities at Colgate and at other institutions of higher education in upstate New York at <https://www.hercjobs.org/regions/higher-ed-careers-upstate-new-york>

It is the policy of Colgate University not to discriminate against any employee or applicant for employment on the basis of their race, color, creed, religion, age, sex, pregnancy, national origin, marital status, disability, protected veteran status, sexual orientation, gender identity or expression, genetic information, being or having been victims of domestic violence or stalking, familial status, or any other categories covered by law. Colgate University is an Equal Opportunity/Affirmative Action employer. Candidates from historically underrepresented groups, women, persons with disabilities, and protected veterans are encouraged to apply.

Colgate University is a highly selective liberal arts college of 2900 undergraduate students situated in a picturesque village in central New York. The department offers excellent teaching and research facilities and the university is committed to promoting excellence in both teaching and scholarship. For more information about the department, please visit our website at <http://www.cs.colgate.edu>.

Please direct questions to the department chair, Joel Sommers, at jsommers@colgate.edu.

College of the Holy Cross

Part-Time Visiting Faculty Position in Computer Science

The Department of Mathematics and Computer Science at the College of the Holy Cross invites applications for a visiting part-time faculty position to teach one computer science course each semester, to begin in August 2021. This position may be renewed for future years contingent upon performance and departmental needs. Commensurate with experience, visiting faculty will have the opportunity to teach at either the introductory, intermediate or advanced levels, following established curriculum guidelines. While a Ph.D. in computer science or a closely related field is preferred, candidates with an MS or equivalent degree in computer science or related field, who are ABD, or who have industry experience are strongly encouraged to apply.

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

For more information and to apply, please visit: <https://apply.interfolio.com/84523>

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

Colorado State University

Computer Science Scholar

The Department of Computer Science at CSU seeks applications in the 2020-2021 academic year from individuals who are interested in a long-term career in academia but feel it would be beneficial to have a few years of practical experience before accepting a tenure track position at a leading research university.

The Computer Science Scholar program provides an appointment combining teaching and research responsibilities with university career development programs and mentorship from department faculty. A Scholar will teach a mix of department courses and also develop at least one course in their preferred field. A Scholar is expected to supervise a modest research program comprising work by undergraduate or master's degree students or both. Scholars are eligible to submit proposals to outside funding agencies, and the university and department will provide resources to help Scholars learn to write and submit proposals. Scholars are expected to spend a substantial fraction of their time leveraging university programs and department faculty mentoring to develop their teaching and research skills. Scholars are assigned, individual faculty mentors.

The department encourages applicants with diverse interests who will expand the offerings and intellectual directions of the department. Applicants pursuing research programs that combine

computing with other disciplines, such as biological computing or computing pedagogy, are also welcomed.

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

For details of the program, please see the full job description: <http://jobs.colostate.edu/postings/83675>

Georgia Institute of Technology

Bharat Chair

The College of Computing (CoC) at the Georgia Institute of Technology (Georgia Tech) invites applications and nominations for the inaugural Krishna A. Bharat Chair in Computational Journalism. The Bharat Chair will define a vision and grow a practice in responsible, civic-minded approaches for computational journalism within the college, the Institute, and its related professions. The chair is endowed by Krishna Bharat, a Georgia Tech doctoral alumnus in computer science and the founder of Google News.

We seek a transformative figure who can bring about a synergy of journalistic and computational methods, each enhancing the other. Candidates for this endowed position must present qualifications suitable for appointment in one or more of the College of Computing's four schools (Computational Science and Engineering; Computer Science; Interactive Computing; and Cybersecurity and Privacy). Joint or adjunct appointments in other colleges may also be possible.

The chair should have a demonstrated record of success as a respected researcher, academician, or professional in areas relevant to computing and journalism. The candidate must have a sincere commitment to teaching, and a deep dedication to the journalistic ethos of service to an informed, diverse public. Applicants and nominees from computer science, journalism, the media industry, and all related fields are welcome. A terminal degree in an appropriate field is required.

Application materials should be submitted *online*. Candidates must include a curriculum vitae and a cover letter that addresses the applicant's contributions and vision for computational journalism at Georgia Tech and beyond. Confidential nominations for the position can be emailed to Dr. Ian Bogost: ibogost@gatech.edu, the search committee chair.

Preference will be given to applications submitted before April 15, 2021, but we will continue accepting applications until the position is filled.

If you have any questions regarding your submission, please contact recruiting-ic@cc.gatech.edu.

HEALTH[at]SCALE

Postdoctoral Researcher

Description

HEALTH[at]SCALE is a rapidly growing post-Series A healthcare machine intelligence startup founded by machine learning and clinical faculty with strong

ties to MIT, Stanford, Harvard and U-Michigan. The company has been recognized for its efforts by Forbes, Becker's, UCSF Digital Health Awards, Bloomberg, TechCrunch and MIT News. Our mission is to bring precision delivery to healthcare through cutting-edge machine learning that can predictively match the world's patients to the right treatments by the right providers at the right times. HEALTH[at]SCALE's machine intelligence platform and applications for care prediction are among the largest deployments to date of machine learning technologies for healthcare; helping leading organizations manage tens of millions of individuals in live production use. The company's software solutions service a broad range of use cases for managed care, accountable care and self-insured organizations, including: early targeted prediction and prevention of adverse outcomes, optimizing care planning and guiding effective treatment; refining and navigating provider networks; and reducing fraud, waste and abuse. Please visit our website at <https://healthscale.com/> for more information and <https://apply.workable.com/healthscale/> in order to apply.

Responsibilities

- Develop an innovative research program focused on improving outcomes, economics and equity of healthcare delivery through advances in AI/ML theory and applications
- Identify and formulate research problems underlying key healthcare challenges; and conduct basic and

applied research to advance our understanding of these areas

- Drive forward research agenda in collaboration with company researchers, including leading AI/ML faculty and PhDs from top academic institutions
- Engage with broader research community to discuss and publish findings at top venues
- Translate ideas into products and services that directly impact real-world care

Requirements

Minimum Qualifications

- PhD in Computer Science, Electrical Engineering, Statistics or related technical field with a focus on machine learning
- Research ability demonstrated by publications in top journals and conferences (e.g., NeurIPS, ICML, AAAI, ICLR, KDD, ICDM etc.)

Preferred Qualifications

- Research experience in healthcare or life sciences
- Strong proficiency in Python
- Experience working with healthcare datasets

Benefits

HEALTH[at]SCALE offers a competitive salary, stock options, 401k, high-quality health benefits (medical, dental and vision), parental leave benefits and flexible work hours. We are an equal opportunity employer and are committed to diversity in our hiring and business practices.

Housatonic Community College

Instructor of Computer Science (Instructor, Full-time, 10-month, tenure-track position) 4/5

APPLICATION PROCEDURE:

Submit a cover letter and resume via the HCC Careers Portal at Career Portal Homepage (housatonic.edu)

APPLICATION DEADLINE:

Applications for Instructor of Manufacturing must be submitted by 5:00 PM (EST) Thursday, April 1, 2021

Applications for Academic Associate and Instructor of Computer Science must be submitted by 5:00 PM (EST) Monday, April 5, 2021

Housatonic Community College is an Affirmative Action/Equal Opportunity Employer, M/F.

Kent State University

Tenure-Track Faculty Position #999347 - Computer Science

Kent State University's Department of Computer Science is seeking applicants to fill a tenure-track position in the area of computer and network security. Exceptional candidates in other fields will also be considered. Review of applications will begin immediately and continue until the position is filled. Exceptional candidates in closely related areas are encouraged to apply.

The successful applicant will be expected to establish a funded research program, engage in collaborative research, direct theses and dissertations, and teach and mentor students. Expected qualifications include a Ph.D. in Computer Science, Computer Engineering, or a related field. We encourage strong applicants with industrial experience, as well as related post-doctoral trainees, to apply. The position is available at the Assistant Professor rank. Candidates at the Associate Professor level will be considered but will be expected to have a history of extramural funding. Salary and startup funds are competitive and commensurate with academic qualifications and experience.

The department runs one of the oldest and strongest programs in Cybersecurity/Privacy in the State of Ohio and is compliant with NSA and other national curriculum recommendations. Our department offers the B.S., B.A., M.S., M.A., and Ph.D. degrees, along with an M.S. in Data Science and an M.S. in Artificial Intelligence.

The department has 17 full time faculty, and currently enrolls over 500 undergraduates and over 100 graduate students. Kent State University is located in Northeast Ohio and has a student population of approximately 28,000. The beautiful park-like campus is within walking distance from downtown Kent. The city has recently undergone a major rejuvenation and has a vibrant town center with many new restaurants and shops. Kent State is considered one of the best institutions to work for in the nation.



SCHOOL OF ENGINEERING AND TECHNOLOGY

INDIANA UNIVERSITY–PURDUE UNIVERSITY
Indianapolis

Purdue School of Engineering and Technology, IUPUI
Lecturer of Computer and Information Technology

The Purdue School of Engineering and Technology, Indiana University–Purdue University at Indianapolis (IUPUI) invites applications for one lecturer in the area of Information Technology. The anticipated start date is August 1, 2021.

The position will focus on teaching introductory computer and information technology courses and coordinating first- and second-year undergraduate students' experience. Experience with curriculum development and/or preparation of high school students for college is an advantage. We are particularly interested in applicants who have teaching experiences in cybersecurity, web and mobile application development, data analytics, or programming.

The position requires teaching diverse undergraduate students, conducting a scholarship of teaching and learning, and service to the Department, School, and IUPUI campus.

Qualifications include an M.S. in Information Technology, Computer Science, Computer Engineering or a closely-related discipline from an accredited institution of higher education; and the ability to translate theories and concepts into practical applications.

Provide a CV, statement of teaching interests/philosophy with a summary of teaching evaluations (if any), and contact information for at least three references. Applications are welcome until the position is filled.

As the state's premier urban research institution, IUPUI is committed to being a welcoming campus community that reflects and enacts the values of diversity, equity and inclusion that inform academic excellence. We seek candidates who will not only enhance our representational diversity but whose research, teaching, and community engagement efforts contribute to diverse, equitable, and inclusive learning and working environments for our students, staff, and faculty. IUPUI condemns racism in all its forms and has taken an anti-racist stance that moves beyond mere statements to interrogating its policies, procedures, and practices. We hope to identify individuals who will assist in our mission to dismantle racism so that everyone has the opportunity to succeed at IUPUI.

Apply for this position at <https://indiana.peopleadmin.com/postings/10512>

Applications are welcome until the position is filled. IUPUI is an Equal Opportunity/Affirmative Action educator and employer and affords reasonable accommodations to persons with disabilities.



SCHOOL OF ENGINEERING AND TECHNOLOGY

INDIANA UNIVERSITY–PURDUE UNIVERSITY
Indianapolis

Purdue School of Engineering and Technology, IUPUI
Assistant Professor with focus in Cybersecurity

The Purdue School of Engineering and Technology, Indiana University–Purdue University Indianapolis (IUPUI) invites applications for one tenure-track position in the Department of Computer Information and Graphics Technology with an anticipated start date of August 1, 2021. Applicants should have a strong record of research, show significant potential for establishing and sustaining an externally funded research program, be committed to teaching both undergraduate and graduate courses, and mentoring M.S. and Ph.D. students.

We are particularly interested in applicants whose research focuses on Cybersecurity. Applicants whose research applies Cybersecurity to existing School strengths, such as Intelligent Transportation, IoT, Artificial Intelligence, and other areas of intelligent systems are strongly encouraged to apply. A doctorate in Computer Science, Computer Engineering, Electrical Engineering, or a related discipline focusing on Cybersecurity is required by the start date of the position.

The Department of Computer Information and Graphics Technology offers several degrees, including a B.S. in Cybersecurity, an M.S. in Cybersecurity and Trusted Systems, and also participates in the Ph.D. program offered by the Department of Electrical and Computer Engineering. The Purdue School of Engineering and Technology at IUPUI has 7 academic departments with an extensive undergraduate and graduate degree portfolio, including numerous CAC, EAC, and ETAC of ABET-accredited B.S. programs. The School has over 3,000 students, including approximately 500 graduate students pursuing either M.S. or Ph.D. programs. More information about the School is available at et.iupui.edu.

As the state's premier urban research institution, IUPUI is committed to being a welcoming campus community that reflects and enacts the values of diversity, equity and inclusion that inform academic excellence. We seek candidates who will not only enhance our representational diversity but whose research, teaching, and community engagement efforts contribute to diverse, equitable, and inclusive learning and working environments for our students, staff, and faculty. IUPUI condemns racism in all its forms and has taken an anti-racist stance that moves beyond mere statements to interrogating its policies, procedures, and practices. We hope to identify individuals who will assist in our mission to dismantle racism so that everyone has the opportunity to succeed at IUPUI.

Applications must include a letter of interest, curriculum vitae, a summary of scholarship including teaching and research interests, and contact information for at least three references. Apply for this position at <https://indiana.peopleadmin.com/postings/10509>

Applications are welcome until the position is filled. IUPUI is an Equal Opportunity/Affirmative Action educator and employer and affords reasonable accommodations to persons with disabilities.

It also has a strong commitment to diversity participation. More information about the department can be found at <http://www.cs.kent.edu/>.

Interested applicants should upload cover letters, curriculum vitae, and statements of research and teaching interests to the Kent State University Human Resources website, <https://jobs.kent.edu>. Applicants should clearly identify their research focus areas in the cover letter.

Three letters of recommendation should also be provided either by email to cssearch@cs.kent.edu or by regular mail to:

Chair, Faculty Search Committee
Department of Computer Science
Kent State University
PO Box 5190, Kent, OH 44242-0001.

Equal Opportunity / Affirmative Action
Employer / Disabled / Veterans

KTH Royal Institute of Technology

*Associate Professor, Computer
Science, Specialisation in Foundations
of Data Science*

KTH Royal Institute of Technology, School of Electrical Engineering and Computer Science has a vacancy for one Associate Professor with specialisation in Foundations of Data Science. The position

will be permanent and full time, to start as soon as possible.

KTH is one of Europe's leading technical and engineering universities. We are Sweden's largest technical research and learning institution and home to students, researchers and faculty from around the world. Teaching is in English and Swedish.

Applications must be made online through the KTH job portal. Full position details, including how to apply online can be found at: <https://www.kth.se/en/om/work-at-kth/lediga-jobb/what:job/jobID:366029/where:4/>

The deadline for online applications is 15.Apr.2021 11:59 PM CET.

Job reference number: VL-2020-0141

Mount Holyoke College

Visiting Lecturer in Computer Science (multiple)

Mount Holyoke College invites applications for two full-time Visiting Lecturers in the Computer Science department, to begin in fall 2021. These are two-year positions, with competitive salary and benefits. We seek candidates with a strong interest in teaching and working closely with undergraduate students.

The teaching load for these positions is 5 courses per year, divided between courses and lab sections. Completion of a Ph.D. is expected prior to or shortly after the date of hire. Visiting faculty are eligible for all College research support including funding to attend professional

meetings, for professional development, and for students to participate in faculty research. More information and the application portal can be found online at <https://jobs.mtholyoke.edu>.

Applications include a CV and three statements concerning (1) teaching philosophy, (2) research plans, and (3) mentoring a diverse student body. The cover letter or teaching statement should include information about courses that the candidate is interested in teaching (see tinyurl.com/h8s5x17g). Applicants should also arrange to have three letters of reference submitted on their behalf, at least one of which addresses teaching experience. We will begin reviewing applications immediately and continue until the position is filled.

For more information, please contact Valerie Barr, vbarr@mtholyoke.edu.

Naval Postgraduate School

Assistant/Associate Professor of Computer Science

The Naval Postgraduate School (NPS) is accepting applications for the position of Assistant or Associate Professor (tenure-track) in the Department of Computer Science. We encourage all qualified candidates to apply and are especially interested in candidates with a background in artificial intelligence, data science, distributed systems, machine learning, or security.

We seek to fill the position by June 2021 and will consider applications beginning

30 March 2021. In your application package include your curriculum vitae, names of three references, and a sample of your published work. Submit applications to Dr. Geoff Xie, Search Committee Chair: xie@nps.edu by March 21st, 2021.

NPS is a fully accredited graduate school with students from all U.S. armed services, as well as foreign military officers. U.S. citizenship is required. Salary is highly competitive and includes a generous locality allowance.

Monterey is a short drive south from the Silicon Valley and San Francisco Bay area and is ideally situated along the spectacular central California coast.

Additional position details can be found at: <https://main.hercjobs.org/jobs/14480892>

NEC Laboratories America, Inc.

Researcher - Data Science

NEC Laboratories America (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, 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 candidates must have expertise in one of the above areas, and can develop algorithms to analyze massive data and build innovative applications. S/he must have a PhD in CS/CE with a strong publication record in at least one of the following areas:

- Data Mining and Machine learning (especially deep neural networks)
- 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 to 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=3108918.

Equal Opportunity Employer

NEC Laboratories America, Inc.

Researcher - Networking/System Security

NEC Laboratories America (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 the management of complex systems, from networks to cyber-physical systems, 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, text mining, anomaly detection, signal processing, and streaming processing. The goal of our research

is to understand the dynamics of big data from complex systems and build innovative solutions to help end-users manage these systems. We built several analytic engines and system solutions to process and analyze big data and support various applications in detection, prediction and optimization. Our research lead to both award-winning NEC products and publications in top conferences.

Our group is looking for researchers to work at the intersection of machine learning and networking and/or system security. The ideal candidate must have a PhD in CS/CE and a strong publication record in at least one of the following areas:

- Data mining and machine learning
- 5G networking and IoT
- Network management, measurements, and analysis
- Network and/or system security

NEC Labs is located in Princeton, NJ, home to 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=3123535.

Equal Opportunity Employer

NYU Abu Dhabi

Division of Engineering

*Computer Engineering Professor -
Tenure Track*

The Division of Engineering at New York University Abu Dhabi (NYUAD) invites applications for a tenure-track faculty position in its Computer Engineering program in the broad area of cybersecurity. The available opening is at the rank of Assistant Professor. Candidates with a strong record of interdisciplinary research in emerging areas are preferred. We particularly welcome applications from female scholars as well as members of traditionally underrepresented groups. The successful candidate will become affiliated with NYUAD Center for CyberSecurity (<https://sites.nyuad.nyu.edu/ccs-ad/>), which is in close collaboration with NYU New York Center for CyberSecurity (<https://cyber.nyu.edu/>).

Successful candidates will receive a generous startup package, as well as renewable research funding to hire research assistants and postdocs, and will also have access to internal funding. It is also expected that the successful candidate will become Associated Faculty of NYU that allows research privileges and access to programs and facilities at the NYU Tandon School of Engineering in New York.

Qualifications

Candidates must have a PhD degree in Computer Engineering, Computer Science,

or Electrical Engineering and must have demonstrated an ability to develop and lead high-quality research and attract competitive external funding.

Application Instructions

To apply for this position, please submit the following items to: <https://apply.interfolio.com/82826>

- CV
- Cover Letter
- Statement of Teaching Interests
- Statement of Research Interests
- Name and email address of three references (Each referee will be contacted to submit their reference letter only if the candidate is shortlisted for further consideration.)

We will begin reviewing applications on March 15, 2021, and will continue until the position is filled. Shortlisted candidates are expected to interview remotely in Spring 2021. We anticipate that successful candidates can start the appointment and relocate to Abu Dhabi in the academic year 2021-2022.

NYUAD is committed to equality and is an equal opportunity employer. We encourage applications from candidates who will enrich and contribute to the cultural and ethnic diversity of our University.

For questions about this position, please email nyuad.engineering@nyu.edu.

Join NYU Abu Dhabi, an exceptional place for exceptional people.

UAE Nationals are encouraged to apply.

Northeastern University

Director of Computing Programs San Francisco-Silicon Valley

Position Summary:

The Khoury College of Computer Sciences at Northeastern University invites applications for the position of Director of Computing Programs at our San Francisco and Silicon Valley campuses. The college currently offers the Master of Computer Science and will launch the Master of Data Science in the 2020-2021 academic year. Both of these programs can be pursued by students with undergraduate degrees outside of computing through Align, Northeastern's most innovative and mission-driven program (<https://www.khoury.northeastern.edu/information-for-overview/prospective-align-pillar/>). Through its commitment to Algin, Khoury College aims to close America's tech diversity gap. All programs offered in the Bay Area are grounded in principles of innovation and experiential learning, preparing graduates for successful careers in the dynamic tech environment of Silicon Valley. The ideal candidate will be able to combine strong leadership skills, demonstrated administrative experience, an entrepreneurial spirit, and commitment to increasing diversity in computer science to create a strategic vision for the growth of programs in the region.

The Director will work closely with the Dean of Khoury College, the Executive Directory of Khoury College in the Global Network, Directors of other regional campuses, faculty, and a support staff

team that will assist with student recruitment, employer relations, and resource development. The director will interact with Bay Area campus staff and administration as well as the faculty and staff of other colleges in support of regional programs and goals. The director will act as a primary ambassador for Khoury College in the region, interfacing with industry, philanthropic supporters, and strategic partners to build the program's brand and reach. The Director will teach two courses per year and will have the opportunity to recruit full- and part-time faculty at the San Francisco and Silicon Valley campuses.

Qualifications:

Candidates will be considered from all areas in Computer and Information Science. A PhD in Computer Science, Information Science or a related field is required by the appointment start date and a strong background for teaching excellence in computer science preferred. For more information on Khoury College of Computer Sciences and all of its academic programs visit <https://www.khoury.northeastern.edu/programs/computer-science-ms/>.

Additional information and instructions for submitting application materials may be found at the following web site: <https://careers.hrm.northeastern.edu/en-us/job/505622/director-of-computing-programs-san-franciscosilicon-valley-open-rank>

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.

Pomona College

2-Year Visiting Assistant Professor

Pomona College seeks applications for two, two-year visiting Assistant Professor of Computer Science position beginning 7/1/21. The teaching load is five semester-long courses a year. Faculty teach across all levels of the curriculum. Candidates must have a Ph.D. in CS or related fields or be at the later stage of a Ph.D.

Submit a cover letter; CV; graduate transcripts; teaching statement and at least one letter of reference which evaluates the candidate's teaching via email at cssearch@pomona.edu.

Employees must show proof of eligibility to work in the U.S.

Rochester Institute of Technology

Rochester, New York

*Computing and Information Sciences
Assistant Professor Position in Data
Science Open for Fall 2021*

The Golisano College of Computing and Information Sciences at the Rochester Institute of Technology invites applications and nominations for a full-time tenure-track position at the rank of Assistant Professor in the Department of Software Engineering at Rochester Institute of Technology (RIT). RIT is committed to being a student-centered research university. As part of that commitment, Assistant Professors will be expected to teach two courses per year through year five, with tenure review in year six, after which the teaching load will be adjusted according to the intensity of the research load. RIT is also positioned to provide excellent competitive startup funding for PhD students, equipment, and travel in support of building an outstanding research program. The university provides support for gaining external funding, including several internal seed funding opportunities.

Candidates with a track record of publications in leading data science and/or artificial venues with research focuses in any area of data science or applied artificial intelligence are encouraged to apply.

Candidates should visit <http://careers.rit.edu/faculty> and refer to BR5509 for specific information about the position

and the application process. Refer to www.rit.edu for information about RIT, the Golisano College of Computing and Information Sciences, and the Global Cybersecurity Institute.

The Golisano College of Computing and Information Sciences is the largest of RIT's nine colleges and has an enrollment of over 3400 undergraduate students and 900 graduate students. The college, with over 160 faculty members, is housed in a modern facility equipped with numerous teaching and research laboratories. The college is home to: the departments of Computer Science, Computing Security, and Software Engineering, the School of Interactive Games and Media, the School of Information, and a college-wide PhD program, providing many opportunities for cooperation and research collaboration within and beyond the college. The Global Cybersecurity Institute, the newest addition to our facilities, opened in Spring 2021.

RIT has been honored by *The Chronicle of Higher Education* as one of the "Great Colleges to Work For" for four years. RIT is a National Science Foundation ADVANCE Institutional Transformation site. RIT is responsive to the needs of dual-career couples by our membership in the *Upstate NY HERC*.

RIT does not discriminate. RIT is an equal opportunity employer that promotes and values diversity, pluralism, and inclusion. For more information or inquiries, please visit *RIT/Title IX* or the U.S. Department of Education at *ED.Gov*

Suffolk University

Assistant Professor of Computer Science, Tenure Track

The Department of Mathematics and Computer Science at Suffolk University invites applications for a tenure-track faculty position in Computer Science at the rank of Assistant Professor beginning July 1, 2021. Faculty responsibilities for this position include a total teaching load of five courses per academic year, advancing a productive research and publication agenda, advising students, and actively contributing to the department, college, and university through participation in shared governance and other service activities.

The successful candidate will have a Ph.D. in Computer Science in hand by the July 1, 2021 start date. Applications in all research areas will be considered, although we are particularly interested in candidates in the areas of wireless networking, networks security, data science, or software systems.

Application should be made through the Suffolk HR website https://app.jobvite.com/j?cj=oSEsefwm&s=Computer_Research_News, with a complete submission including the following components: cover letter, CV, graduate transcript, research writing sample, concise statement of teaching philosophy, recent student evaluations (if available), and contact information for three references. Review of applications will begin immediately.

Suffolk University is an affirmative action, equal opportunity employer.

Syracuse University

Assistant Teaching Professor Position in Computer Science or Computer Engineering

Job Description

Syracuse University's Department of Electrical Engineering and Computer Science (<http://eecs.syr.edu>) invites applications for multiple positions at the rank of Assistant Teaching Professor or Associate Teaching Professor, committed to inclusive excellence and innovative teaching.

Teaching responsibilities will include a range of undergraduate and graduate courses in Computer Science and Computer Engineering. In particular, we seek candidates who have expertise in one or multiple of the following areas: Operating System, Computer Organization, Robotics, and Functional Programming. Candidates with extensive programming experience and undergraduate teaching will be considered favorably.

The candidates hired in these positions will be an integral part of the EECS department through curriculum design, innovation in education, teaching, and service.

Qualifications & Responsibilities

A doctoral degree in Computer Science, Computer Engineering, or a related discipline is strongly preferred. Candidates with an MS degree and excellent teaching experience can apply. We strongly encourage applications to show a demonstrated commitment to diversity, inclusion, and excellence in teaching.

How to Apply

For full consideration, candidates must complete an online application and electronically attach a cover letter, curriculum vitae emphasizing teaching experience, teaching statement, and contact information of three professional references through <http://www.sujobopps.com>, job# 075558.

To be competitive, we strongly encourage candidates to apply early. The review of applications will continue until the position is filled. For additional information, please contact the search committee via email at eeccsearch@sy.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.

Technische Universität Wien

Full Professor of Software Engineering

Call for applications -

Full Professor of Software Engineering at TU Wien

The Faculty of Informatics at TU Wien would like to further strengthen its profile in various subdisciplines of software engineering.

The successful candidate should have an excellent research track record in at

least two of the following areas (but not limited to):

- Software Analysis, Testing, and Resiliency
- Software Design and Architecture
- Software Maintenance and Evolution
- Software Variability
- Software Model Engineering and Domain-Specific Languages
- Requirements Engineering
- Data-intensive, empirical, and search-based Software Engineering

Detailed information is available at

<https://informatics.tuwien.ac.at/news/1986>.

Applications should be directed to <https://jobs.tuwien.ac.at/Job/144154>.

Application deadline: March 31, 2021.

Temple University

Tenure-Track Faculty Position (Asst/Assoc/Full)

Computer and Information Sciences

The Department of Computer and Information Sciences (CIS) at Temple University invites applications for tenure-track faculty whose expertise complements and expands existing departmental strengths in data science, computer systems, theory, and interdisciplinary research. We will consider candidates in all areas of computer science and at all ranks. We are particularly interested in candidates whose research focuses on creating

computer systems that exhibit the ability to learn, adapt, understand context, and work seamlessly with and for humans. This would include candidates with expertise in data science, artificial intelligence, machine learning, natural language processing, cybersecurity, human-computer interaction, and applications. Successful candidates are expected to hold a doctoral degree, have an outstanding research track record commensurate with their rank, and a demonstrated commitment to excellence in undergraduate and graduate education. The CIS Department offers highly competitive salaries and start-up packages, low teaching load, and institutional support for a world class research program.

Temple University is a Carnegie R1 (very high research activity) institution that serves more than 35,000 students and is ranked #46 among top public universities by the U.S. News & World Report. Located in the heart of Philadelphia (the 5th largest city in the United States, known for its arts, culture, history and affordable living), Temple University is in close proximity to many outstanding research centers and industry partners in information technology, healthcare, biotechnology, and finance.

Applications should be submitted electronically at: <https://academicjobsonline.org/ajo/jobs/17907>

Submitted materials should include a curriculum vitae, a research statement with a description of research

accomplishments, a teaching statement, and three letters of recommendation (names and contact information of referees are sufficient for senior-level candidates).

Review of applications will begin on February 15, 2021 and will continue until the position is filled. For more information, send an email to cisfacultysearch@temple.edu, with "TT Position" as the subject.

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

TU Wien Informatics

Full Professorship for Enterprise and Process Engineering

The Faculty of Informatics at TU Wien would like to further strengthen its profile in Business Informatics and in particular in various subdisciplines of enterprise engineering and business process management.

The successful candidate should have an excellent research track record in one or more of the following areas (but not limited to):

Enterprise Engineering

- Enterprise Architecture
- Enterprise Modeling
- Enterprise Governance and Transformation
- Enterprise Information Systems

Business Process Management

- Workflow Systems and Technologies
- Process Modeling
- Process Mining
- Agile Processes
- Process Provenance, Auditing and Transparency

Detailed information is available at:

<https://informatics.tuwien.ac.at/news/1993>

Applications should be directed to:

<https://jobs.tuwien.ac.at/Job/145775>

Application deadline: April 14, 2021

Union College

Assistant Professor of Computer Science

Union College invites applications for an endowed tenure-track faculty position in Computer Science at the rank of Assistant Professor, beginning September 2021 or January 2022. This endowed position benefits from an assigned annual allowance to support research and travel and is part of a broader initiative to further strengthen and integrate computer science and engineering with the liberal arts at Union.

At Union, institutional expectations and support are balanced between teaching and research; the ideal candidate will be enthusiastic about teaching, supervising undergraduate research, and sustaining an independent research program. The specialization is open, but preference

will be given to candidates whose teaching and research can contribute to Union's new and growing data science program. We are particularly interested in candidates who can teach core computer science classes as well as interdisciplinary courses that connect computing to the arts, humanities, and/or social sciences. The position involves teaching two courses in each of three trimesters and advising two to three senior projects each year. Preference will be given to applicants who have completed the Ph.D. in computer science or a related area; applicants close to finishing the Ph.D. will be considered. Increasing diversity on campus is a critical priority for Union, one that is integral to our mission of preparing students for a globally interconnected world. Our goal is not only to increase diversity, but to support a diverse environment in which people from varied backgrounds can succeed and thrive. We welcome applications from members of groups traditionally underrepresented in the field. And we ask all applicants to convey in their cover letter how their teaching, scholarship, mentorship and/or community service might support our commitment to diversity and inclusion.

Union College is a highly selective liberal arts and engineering college in New York State's Capital Region, three hours from NYC and Boston. It emphasizes close collaborations between faculty and students and has campus-wide initiatives promoting interdisciplinary activities. The Computer Science Department offers

a B.S. in computer science and supports an ABET-accredited B.S. in computer engineering with the Electrical, Computer, and Biomedical Engineering Department. We participate in an interdisciplinary data analytics minor, in a digital media minor in collaboration with the Department of Visual Arts, and in the computational track of the neuroscience major. We offer introductory courses that engage students with a variety of interests. Current faculty research areas include robotics, HCI, NLP, databases, software design, and complexity theory. Further information: www.union.edu/computer-science.

Interested candidates should electronically submit a cover letter, curriculum vitae, statement of teaching philosophy, and statement of current research interests. Please provide names and contact information for the three references when you complete the online application. An email will be sent automatically requesting that they upload their letter of recommendation to our system. See cs.union.edu/jobs for instructions about how to submit the relevant materials. We will begin reviewing applications starting March 25, 2021, and will continue until the position is filled.

Union College is an equal opportunity employer and strongly committed to student and workforce diversity. Union provides a blend of intellectual, social and cultural opportunities to facilitate the integrated academic, social and personal development of a diverse community. We value and are committed to a host of diverse populations and cultures

including, but not limited to, those based on race, religion, disability, ethnicity, sexual orientation, gender, gender identity, national origin and veteran status.

U.S. Naval Academy

Faculty Positions in Cyber Science

The U.S. Naval Academy invites applications for tenure-track faculty positions in the Department of Cyber Science, beginning in the Fall 2021 semester.

The Cyber Science Department operates the Academy's growing cybersecurity education initiatives, including a rapidly growing, ABET-accredited cyber operations major, and a brand new, state-of-the-art building to support multi-disciplinary cybersecurity education and research.

The requirements of the positions include teaching and developing undergraduate cyber operations courses and academic research. Candidates should have experience in technical areas such as systems security, network security, or SCADA systems.

A Ph.D. or other terminal degree in a cyber technology-relevant field (which includes fields such as Computer Science, Information Technology, Information Science, Computer Security, Computer Engineering, Electrical Engineering, and others) is required.

For full details and application instructions see: <https://www.usna.edu/HRO/jobinfo/Tenure-track-Cyber-AY21.php>

UC Riverside

Assistant Teaching Professor in Computer Science and Engineering

The Department of Computer Science & Engineering at the University of California at Riverside invites applicants for a tenure-track assistant teaching professor faculty position. The search places a strong emphasis on candidates who have a demonstrated commitment to promoting diversity and inclusiveness in teaching, research, and service, as well as a commitment to broadening participation for women and other underrepresented groups in computing.

At UCR, teaching professors are responsible mainly for undergraduate instruction and curriculum development. Successful candidates will exhibit a dedication to teaching and appropriate pedagogical knowledge and skills. Teaching faculty are also expected to be actively engaged in pedagogical innovation, TA training, program accreditation, student advising, and scholarly activity in the area of computer science and computer engineering education.

A teaching professor appointment is similar to a traditional tenure-track professor appointment and follows a parallel track, including regular, rigorous performance reviews and a tenure process that, if successful, leads to a tenured appointment. Advancement through the faculty ranks is through a series of structured, merit-based evaluations, occurring every 2-3 years, each of which includes substantial peer input.



Assistant Teaching Professor

(Lecturer with Potential Security of Employment), Halcolu Data Science Institute

The University of California, San Diego seeks applications from outstanding candidates for the tenure-track position of Assistant Teaching Professor within the Halicioglu Data Science Institute. The Assistant Teaching Professor position (formal title "Lecturer with Potential Security of Employment") is a tenure-track faculty appointment with a strong emphasis on teaching in addition to pedagogical and/or disciplinary research.

We seek applicants who will excel at developing and teaching courses in programming languages, software development, distributed processing systems, systems and tools for AI/ML, non-structured databases, metadata models, and/or data visualization. Exceptional applicants with expertise in other areas of data science will also be considered.

Successful appointees will have a track record of excellence in teaching, research accomplishments, a commitment to university service, and a commitment to support diversity, equity, and inclusion at the university. The University of California, San Diego is committed to academic excellence and diversity within the faculty, staff, and student body.

A PhD in Computer Science, Engineering, Math or related discipline is required at the time of appointment.

Applications must be submitted electronically through AP-Online Recruit website at <https://aptrkr.com/2182093>

Any questions may be directed to Justin Eldridge (Recruiting Chair) at <mailto:jeldridge@ucsd.edu>.

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

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

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

is filled. Applications must be submitted online. Applications will continue to be received until the position is filled. For more information regarding the specific areas of interest and application procedures, please visit <http://www.engr.ucr.edu/>.

To apply for the position, interested individuals are required to submit a cover letter, their most recently updated curriculum vitae, three letters of references or contact information, a Statement of Teaching, an optional Statement of Research, and a Contribution to Diversity Statement to the AP Recruit website at <https://aprecruit.ucr.edu/JPF01380>. For inquiries and questions please refer to the contact search@cs.ucr.edu

UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law.

Appointments are expected to begin July 1, 2021. Salary will be commensurate with education, experience, and subject to availability of funds. Applicants must have

met the requirements for the Ph.D. by the time of appointment.

Review of applications will begin April 19, 2021, and will continue until the position

Professional Opportunities



Assistant Professor Halicioglu Data Science Institute

The University of California, San Diego invites applications from outstanding candidates for an open-rank (tenure-track or tenured) faculty position for a primary appointment at the Halicioglu Data Science Institute (HDSI) with an optional joint appointment in another academic department. HDSI welcomes outstanding candidates who advance research at the intersection of Data Science and Health Sciences/ Humanities/Social Sciences. A successful candidate should use and/or develop Data Science methods to study important societal questions related to Black communities anywhere in the US, Africa or the Black Diaspora. Examples include questions about the experiences and societal contributions of African Americans and the relationship that social/political/economic/legal/health factors have on the lives of Blacks in the US and/or the Black Diaspora. Candidates working in all Data Science areas including -but not limited to- Machine Learning, Artificial Intelligence, Statistics, Causal Inference, Economics, Ethics, Fairness, Health-care, History, Sociology, Public policy are particularly encouraged.

Basic Qualifications:

Applicants must possess a Ph.D. in their field of expertise or have advanced to candidacy at the time of application. (Until degree is conferred, the appointment is Acting Assistant Professor). Degree must be in Statistics, Machine Learning, Data Science, Computer Science, Economics, Public Policy or related field.

UC San Diego is forging a new paradigm for engagement and collaboration between STEM/Public Health/Health Sciences and the Social Sciences/Arts & Humanities. This faculty line is one of 13 ladder-rank faculty positions that unites STEM/Public Health/Health Sciences departments and African American and the Black Diaspora Studies through innovative research, coordinated teaching, and targeted service. Faculty will have multiple opportunities to engage with scholars across UCSD disciplines to address issues of race and racism, access and equity, and social and political influences focused on STEM/Public Health/Health Sciences, while also working within their home departments and professional communities.

Faculty holding these positions will be expected to design and teach undergraduate courses that align with the African American Studies Minor (AASM). They may also demonstrate the equivalent through service to the AASM and by mentoring undergraduate students. We seek candidates whose research, teaching, and service advance anti-racism, anti-oppression, equity, and justice in STEM/Public Health/Health Sciences. We welcome candidates whose professional experiences and personal backgrounds have facilitated their understandings of traditionally underrepresented racial minority communities. Faculty are expected to have an inclusive stance on mentoring and advising that incorporates working with women and underrepresented racial minority undergraduate and graduate students.

Strong candidates are preferred to have a research agenda easily related to factors of race/ethnicity, as well as previous experiences teaching, mentoring, and supporting the advancement of underrepresented racial minority students, and a record of service activities that promote diversity, equity, and inclusion. Strong candidates will also have experience with or the desire to engage in interdisciplinary conversations and scholarship across UCSD disciplines.

Applications must be submitted electronically through AP-Online Recruit website:
<https://apptrkr.com/2182052>

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

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

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

University of Florida

Assistant Professors in Artificial Intelligence

The Herbert Wertheim College of Engineering (HWCoE) at the University of Florida invites applications for four full-time, nine-month tenure-track faculty positions at the rank of Assistant Professor. Candidates are sought whose research focuses on Artificial Intelligence (AI) and who are interested in collaborative research with the Center for Coastal Solutions (CCS), housed within the HWCoE.

For full details on the four positions, please see: <https://www.ece.ufl.edu/about/faculty-search/>

The University of Florida is committed to nondiscrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information, and veteran status in all aspects of employment including recruitment, hiring, promotions, transfers, discipline, terminations, wage and salary administration, benefits, and training.

University of Illinois Urbana-Champaign

Professor (Open Rank) - Computer Science

The Department of Computer Science at the University of Illinois Urbana-Champaign invites applications for

full-time tenure-track faculty positions at all levels (Assistant Professor, Associate Professor, Full Professor). We particularly encourage applications in quantum computing, but also welcome applications from exceptional candidates in other areas.

The University of Illinois is an Equal Opportunity, Affirmative Action employer that recruits and hires qualified candidates without regard to race, color, religion, sex, sexual orientation, gender identity, age, national origin, disability or veteran status. For more information, visit <http://go.illinois.edu/EO>.

Applicants are required to have (or expected to receive) a Ph.D. or equivalent degree in Computer Science or a related field. Additional qualifications include the ability to teach effectively at both the graduate and undergraduate levels and the potential to initiate and carry out independent research. We seek applicants that will contribute to the diverse, vibrant and inclusive atmosphere in the department as we strive to make computing's remarkable opportunities available to everyone through the continued expansion of our research and teaching activity in Urbana-Champaign, in Chicago, and online. Quantum computing faculty will engage with a growing research community through the new Illinois Quantum Information Science and Technology Center (IQUIST) and the Chicago Quantum Exchange.

The Department of Computer Science is home to U.S. News & World Report top-5 undergraduate and graduate

programs and is a key component of The Grainger College of Engineering at Illinois, one of the nation's elite engineering schools. Our history is, in part, the history of computing. From the ILLIAC to Blue Waters, MPI to OpenMP, Mosaic to YouTube, and the first vectorizing compilers to LLVM, Illinois CS faculty, students, and alumni have long been at the forefront of computing research and innovation. CS Department faculty have been founders of multiple startup companies including Reconstruct, Runtime Verification, Veriflow Systems, and others. Companies that have been founded or led by Illinois CS graduates include C3, Malwarebytes, Match.com, Microsoft, Netscape, Optimizely, PayPal, YouTube, and Yelp.

Illinois Computer Science includes 78 tenure track faculty members, 29 teaching and research faculty, and 60 academic and research staff and professionals, and enrolls nearly 2000 undergraduates and 1900 graduate students, including over 420 PhD students. The Department faculty include 20 IEEE Fellows, 17 ACM Fellows, and 40 NSF CAREER Award winners. Our research embraces all major technical specializations in the profession, and is at the heart of the University of Illinois' rich network of interdisciplinary centers and institutes such as the National Center for Supercomputing Applications (NCSA), the Beckman Institute for Advanced Science and Technology, the Coordinated Science Laboratory, the Carl R. Woese Institute for Genomic Biology,

and the Health Care Engineering Systems Center. We are pioneering innovations in computer science education, including new cross-disciplinary CS+X degrees for undergraduates and a growing online Master's Program, and our faculty are contributing the world's first engineering-based College of Medicine. More details about the department can be found at <http://cs.illinois.edu>.

Qualified senior candidates may also be considered for tenured Associate Professor and Full Professor positions as part of the Grainger Engineering Breakthroughs Initiative in which new endowed professorships and chairs will be established in areas of strategic interest to The Grainger College of Engineering. Such areas include, but are not limited to, quantum, big data, machine learning, and robotics. More information about the Grainger Initiative can be found at <https://grainger.illinois.edu/research/grainger-breakthroughs>.

Application review and interviewing will begin immediately. All applications received before March 15, 2021, will receive full consideration. Salary will be commensurate with qualifications. Preferred starting date is August 16, 2021, but is negotiable.

Applications can be submitted by going to <http://jobs.illinois.edu> and uploading a cover letter, CV, research statement, teaching statement, and a statement on commitment to diversity, along with names and contact information of at least

three references who will be contacted to provide letters. The statement on diversity should address past and/or potential contributions to diversity, equity, and inclusion through research, teaching, and/or service. Applicants who desire confidentiality should explicitly mention this in the first paragraph of their cover letter. For inquiry, please call 217-333-3426 or email HR@cs.illinois.edu.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer. The University of Illinois System requires candidates selected for hire to disclose any documented finding of sexual misconduct or sexual harassment and to authorize inquiries to current and former employers regarding findings of sexual misconduct or sexual harassment. For more information, visit Policy on Consideration of Sexual Misconduct in Prior Employment."

As a qualifying federal contractor, the University of Illinois System uses E-Verify to verify employment eligibility. The University of Illinois must also comply with applicable federal export control laws and regulations and, as such, reserves the right to employ restricted party screening procedures for applicants.

We have an active and successful dual-career partner placement program and a strong commitment to work-life balance and family-friendly programs for faculty and staff (<https://provost.illinois.edu/faculty-affairs/work-life-balance/>).

University of Kentucky

Assistant Professor in Computer Science/Engineering

The Department of Computer Science at the University of Kentucky invites applications for tenure-track faculty positions to begin August 2021. We seek excellent candidates in all areas, with specific needs in data science, databases, and software engineering. A demonstrated ability to collaborate with diverse teams to address grand societal challenges is highly desirable. We will consider all ranks, with preference for candidates at the assistant professor level. Tenure-track faculty are expected to build a strong research program in their chosen area and to be dedicated teachers, contributing to our instructional offering at both undergraduate and graduate levels. Visiting faculty appointments may be considered in some cases.

The Department, housed within the College of Engineering, has 22 faculty members who are committed to excellence in education, research, and service. The Department offers programs leading to Bachelor's, Master's, and PhD degrees in Computer Science, and also collaborates with other departments to offer programs leading to Bachelor's, Master's, and PhD degrees in Computer Engineering, as well as a Master's degree in Data Science. The undergraduate programs are ABET-accredited.

The University of Kentucky is one of eight institutions in the United States with colleges of agriculture, arts and sciences, business, engineering, law, medicine, and

pharmacy all on a single campus, making it uniquely suited for diverse interdisciplinary collaborations. Located in Lexington, one of the safest, most creative and well-educated cities in the nation, we offer an ideal setting in which to build a successful work-life balanced career. Lexington is the heart of the scenic Bluegrass Region, with many outdoor recreation opportunities and excellent public and private schools.

Applications are now being accepted.

Review of submissions will begin immediately and continue until the positions are filled. Candidates must have earned a PhD in Computer Science or closely related field at the time employment begins.

To apply, a University of Kentucky Academic Profile must be submitted at the following link: <https://ukjobs.uky.edu/postings/321051>. Applicants should

submit a cover letter, full curriculum vitae, research statement (upload under Specific Request 1), teaching statement (upload under Specific Request 2), and contact information for a minimum of three references when prompted in the application.

Questions should be directed to HR/ Employment by phone at 1-859-257-9555 (press 2) or email (ukjobs@email.uky.edu) or to Diane Mier (diane.mier@uky.edu) in the Computer Science Department.

Upon offer of employment, successful applicants must undergo a national background check as required by the University of Kentucky Human Resources. The University of Kentucky is an equal opportunity employer and especially encourages applications from minorities and women.



**Computer and Information Sciences
Full-time Assistant Professor**

The University of Nevada, Las Vegas invites applications for Computer and Information Sciences, Full-time Assistant Professor, Howard R. Hughes College of Engineering [R0123332].

The Department of Computer Science is seeking a full-time, tenure-track Assistant Professor in Machine Learning, Systems, or Software Engineering commencing Fall 2021.

Applicants must have a Ph.D. degree in Computer Science from an accredited college or university. The candidates must have completed all the degree requirements before the date of appointment. The successful candidate should have a good understanding of theory as well as practice.

For more information, please visit <https://www.unlv.edu/jobs>

For assistance with the application process, please contact UNLV Human Resources at (702) 895-3504 or unlvjobs@unlv.edu

EEO/AA/Vet/Disability Employer

University of Maine

Assistant Professor in Artificial Intelligence Hardware

The Department of Electrical and Computer Engineering (ECE) at the University of Maine invites applications for a full-time, tenure-track position in Electrical and Computer Engineering at the rank of Assistant Professor with the starting date of September 1st, 2021. Successful applicants will have a PhD in Computer Engineering, Electrical Engineering, Computer Science, or closely related areas with research expertise in Artificial Intelligence and Hardware design. UMaine affords unique opportunities for ECE faculty to collaborate with a diverse community of world-class scholars. Collaborative multi-disciplinary research opportunities abound with such established research centers as the Frontier Institute for Research in Sensor Technologies (FIRST), Advanced Structures & Composites Center (ASCC), Advanced Manufacturing Center (AMC), Center for Research in Sustainable Forest (CRSF), Climate Change Institute (CCI), and the Institute of Medicine among many others. Candidates are especially sought who can complement existing strengths in the Department and University by contributing in areas such as computer vision, neuromorphic computing, System on Chip (SoC), FPGA, and VLSI design covering both Electrical and Computer Engineering disciplines with a strong interest to collaborate with other domains. Candidates should show a clear potential for research, teaching, technical communication, and scholarly

excellence. Candidates are expected to develop creative research that leads to extramural funding, scholarly publications, and training of MS and PhD students. Candidates should commit to teaching excellence at both undergraduate and graduate levels. The position also requires active engagement in service to the profession, University, and the State.

Interested candidates should submit a complete application package that includes a cover letter, a curriculum vitae, statements of research and teaching interests, and names and contact information for three professional references to <https://umaine.hiretouch.com>. Appropriate background checks are required. General correspondence regarding this position should be sent to the search committee chair, Dr. Ali Abedi, at ali.abedi@maine.edu.

Review of candidates for the position will begin March 15th, 2021, and continue until the position is filled. The anticipated start date for the position is September 1, 2021.

UMaine is committed to diversity in our workforce and to dual-career couples. It is our intention to create an environment that is inclusive of all individuals. The University of Maine is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, sexual orientation, age, disability, protected veteran status, or any other characteristic protected by law.

University of Maryland, College Park

Assistant/Associate Professor

UMD is hiring in the area of Information Operations and Cognitive Security

The College of Information Studies (Maryland's iSchool) invites applications for an open-rank tenure-track position (with a preference for Assistant or Associate level) with a focus on cognitive security and information attacks, defenses, and resilience. Ideal applicants will bring both technical and social expertise to address how actors employ misinformation and disinformation online, the impact on trust in information and institutions, and systems-based solutions to these human-cybersecurity challenges. Example approaches could include securing information supply chains; building tools to detect and disrupt malicious online behavior; or identifying human or organizational vulnerabilities to influence campaigns and building sociotechnical countermeasures.

A record of excellence in scholarship and a strong commitment to research and teaching at the undergraduate and graduate levels are required. Candidates should have a Ph.D. in a related field.

Applicants should apply electronically at <https://ejobs.umd.edu/postings/81369>. Applications should include the following documents (1) a cover letter, (2) a curriculum vita, (3) a research statement, (4) a teaching statement and (5) a list of names and email addresses for three references.

For best consideration, applications should be submitted by March 17, 2021.

Questions can be addressed to Jen Golbeck, Chair of the Search Committee at jgolbeck@umd.edu.

University of Maryland, College Park is the flagship institution in the University System of Maryland and is just minutes away from Washington, D.C. The University of Maryland is an equal opportunity affirmative action employer with a commitment to racial, cultural, and gender diversity. We are committed to attracting and retaining outstanding and diverse faculty and staff that will enhance our stature of preeminence in our three missions of teaching, scholarship, and full engagement in our community, the state of Maryland, and in the world. Women and minorities are encouraged to apply.

University of Maryland, College Park

Lecturer

The iSchool is looking for two full-time, professional track lecturers who are highly competent, energetic, collegial, and flexible to join our exciting environment. Each lecturer will teach in one or more of the areas listed below, with a course load of three classes per semester (fall and spring), and will actively participate in the life of the college.

Visual Design & Interaction

- Keywords: UX design, Design principles & tools, Accessibility & inclusion
- Example graduate classes: Introduction to Visual Design; Interaction Design Studio; Inclusive Design in HCI
- Example undergraduate classes: Design Project; Systems for Prototyping and Development; InfoDesign major still in development – more courses coming soon
- Programming, Technology & Information Management

Data Science & Data Analytics

- Keywords: Statistics, Data visualization, Big data
- Example graduate classes: Data Analytics for Information Professionals; Data
- Visualization; Visual Analytics; Big Data Infrastructure
- Example undergraduate classes: Statistics for Information Science; Decision-Making for Information Science; Data Science Techniques; Big Data Analysis & Visualization
- While these areas of expertise are of particular interest, candidates with expertise and interest in any areas covered by the College's programs are encouraged to apply.

Best consideration date: 4/1 – Apply here: <https://ejobs.umd.edu/postings/81564>

Minimum Qualifications:

- Graduate degree in information science, information technology, library and

archival science, computer science, information systems, or a related area

- For applicants with a design background, a public portfolio of existing work or publication record appropriate to the applicant's career stage
- Experience with student support in higher education, such as teaching, course creation, advising.
- Excellent written and oral communication skills.
- Preferences: Doctoral degree in information science, information technology, library and archival science, computer science, information systems, or a related area. Teaching experience, especially in higher education. Industry experience in visual design, user experience design, user experience research, or a related area
- Research or professional experience related to the College's academic programs.

University of Massachusetts Amherst

Postdoctoral Research Associate - Information Fusion Lab

We are inviting applications for a postdoctoral position in machine learning for healthcare in the Information Fusion Lab at UMass Amherst.

For a complete position announcement or to apply, please visit: <https://careers.umass.edu/amherst/en-us/job/507451/postdoctoral-research-associate-information-fusion-lab>

The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans, and individuals with disabilities and encourages applications from these and other protected group members.

University of Massachusetts Lowell

Assistant Professor - Computer Science

The Computer Science Department at the University of Massachusetts Lowell invites applications for two tenure-track, Assistant Professor faculty positions to start in September 2021.

Applicants must hold a Ph.D. in computer science or a closely related discipline.

Applications received by **April 1, 2021** will receive full consideration. Review of applications will begin immediately and continue until the position is filled. The position may close when an adequate number of qualified applications are received. Women and under-represented minorities are strongly encouraged to apply.

Please include the following required documents with your application:

- CV.
- Cover letter.
- Teaching Statement/Philosophy.
- Publication List.
- Research Statement.
- Sample of Scholarly Work/Publication.

- Names and contact information for three references.
- Summaries of teaching evaluations, if available.

For more information and to apply, please visit: <https://careers.pageuppeople.com/822/lowell/en-us/job/507538/assistant-professor-computer-science-multiple-positions>

The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action, Title IX employer.

University of North Carolina, Wilmington

Assistant Professor - Tenure Track

The Department of Computer Science at the University of North Carolina Wilmington invites applicants to apply for a nine-month tenure-track position to begin August 2021 as an Assistant Professor with research capabilities in intelligent systems engineering with an emphasis on developing next-generation systems that sense and react to their environments, powered by computing and artificial intelligence. Emphasis in robotics and autonomous vehicles preferred. A Ph.D. in Intelligent System Engineering, Computer Engineering, Robotics Engineering, Mechatronics Engineering, Mechanical Engineering, Electrical Engineering, Computer Science, or closely related area is required.

The job posting closing date is March 8, 2021. Applications received after that date will not be considered.

Applications must be submitted through the online application system to be considered. Position details and full applicant instructions can be found at <https://jobs.uncw.edu/postings/19975>.

University of Richmond

Visiting Assistant Professor of Computer Science

The Department of Mathematics and Computer Science at the University of Richmond invites applications for a full-time, one-year visiting assistant professor position in Computer Science beginning in August 2021.

For additional information and to apply, visit: <https://richmond.csod.com/ats/careersite/JobDetails.aspx?site=1&id=2131>

University of Southern California

Professor and Chair of Computer Science

USC Viterbi School of Engineering at the University of Southern California invites nominations and applications for Chair of the Department of Computer Science

The USC Viterbi School of Engineering at the University of Southern California invites nominations and applications for Chair of the Department of Computer Science. We are seeking an individual who can provide strong, dynamic and innovative leadership for advancing excellence in research, teaching, and

service to the professional community. The position is at the tenured Professor rank, starting either Fall 2021 or Spring 2022, and with an initial Chair term of 3 years. In addition to a proven record of scholarly achievement, the candidate must also possess visionary technical leadership, a firm commitment to computer science education, as well as strong management and interpersonal skills. The candidate should have an earned doctorate in computer science or in a closely allied field and be qualified for a tenured full professor appointment.

Established in 1976, the computer science department at the USC Viterbi School has experienced unprecedented growth in recent years. The department now boasts more than 80 faculty members (tenured/tenure-track, research and teaching), and has vibrant undergraduate and graduate programs. The department has strong research groups in AI and machine learning, graphics, robotics, software engineering, systems, and theory. Our faculty include a Turing award winner, 7 members of national academies, 8 ACM fellows, 15 IEEE Fellows, and 39 AAAI and AAAS fellows. The department will soon have a new 98,000-square-foot state-of-the-art home (*announced* in 2020).

Founded in 1905 and located near downtown Los Angeles, a global center for arts, technology and international business in the heart of the Pacific Rim, the USC Viterbi School is a hub for entrepreneurship that connects students from 64 countries. It is consistently ranked in the top 10 graduate programs

(U.S. News and World Report), counting 189 full-time, tenure-track faculty members. It is home to the Information Sciences Institute, a Department of Energy EFRC (Energy Frontiers Research Center), and the Department of Homeland Security's first University Center of Excellence, CREATE. The School is affiliated with the Alfred E. Mann Institute for Biomedical Engineering, the Institute for Creative Technologies, and the USC Stevens Center for Innovation. Research expenditures typically exceed \$210 million annually.

To receive full consideration, candidates should apply on-line at <https://usccareers.usc.edu/>

Applicants must submit a cover letter describing their leadership and administrative experiences, a statement describing their vision and goals as Chair, and a statement about their approach to diversity, equity, and inclusion in higher education. A complete curriculum vitae, as well as research and teaching statements, must also be submitted. References will be requested at a later time.

Applications received by April 2nd, 2021, will be given full consideration; those received after this deadline may also be considered.

USC is an equal opportunity, affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status, disability, or any other characteristic protected by law or USC

policy. USC will consider for employment all qualified applicants with criminal histories in a manner consistent with the requirements of the Los Angeles Fair Chance Initiative for Hiring ordinance.

University of Tulsa

Lecturer

The Tandy School of Computer Science at The University of Tulsa invites applications for a full-time teaching Instructor position beginning August 16, 2021. The position requires teaching core, project-based programming courses in computer science. The ideal candidate is an experienced lecturer in introductory courses in computer science with the ability and interest in teaching specialized courses in computer gaming, data science or systems administration. Additional responsibilities include coordinating multi-section courses, supervising teaching assistants, and leading departmental outreach efforts. A master's degree or higher in computer science or a related field is required as is professional or teaching experience.

To apply, email to csfacultysearch@utulsa.edu a single pdf including a cover letter addressing qualifications for the position, a teaching statement with an optional link to a teaching video, and a curriculum vitae including names and contact information for three references.

Applications will be reviewed upon receipt. Candidates are encouraged to submit applications by April 1, 2021.

Visit <https://utulsa.edu/jobs/instructor-computer-science-college-of-engineering-and-natural-sciences/> for further details about this position.

The University of Tulsa (TU) is committed to building a diverse and inclusive community of faculty, staff and students. TU is an affirmative action/equal opportunity employer and encourages application from qualified candidates across all group demographics.

University of Virginia

Department Chair for Computer Science

The Department of Computer Science within the School of Engineering and Applied Science at the University of Virginia invites applications for the role of the department chair to begin in August 2021. The department has a history of bringing visionary and accomplished scholars from the broader Computer Science community to expand the impact of our research and educational programs. We seek a world-class scholar and leader, whose background allows them to be appointed as a full professor, to lead the next phase of our growth.

The department has experienced significant growth in recent years. In the past 6 years, it has hired 33 faculty members, bringing the total to 57. In that time, the number of undergraduate majors has more than doubled and the number of graduate students has more than tripled. This period has seen remarkable growth in the size and reach of its research program, e.g., research expenditures are up by

more than 260%, and it participates in 3 externally funded center-scale activities - leading two of those. Moreover, the department has led the creation of two major interdisciplinary initiatives within the university - the LinkLab, which is engaged with Cyber-Physical Systems research (<https://engineering.virginia.edu/link-lab>) and the Biocomplexity Institute (<https://biocomplexity.virginia.edu/>) - and jointly administers the Computer Engineering program with the Department of Electrical and Computer Engineering.

The department is 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. This commitment can be seen in the department's 20-year focus on enhancing diversity and inclusion in its educational programs. These efforts have significantly increased diversity in its undergraduate program, with 31% of its Bachelor's degrees being awarded to women in 2019, which ranks 6th among public institutions.

The department is primed for further success. It enrolls a stellar group of undergraduate and graduate students (3-time National Cyber Defense Challenge champions, 12+ faculty placements in recent years). It has a cadre of excellent young faculty (15 NSF CAREER awardees) and established senior faculty (7 ACM/IEEE Fellows). It enjoys the committed support of university leadership (as evidenced by substantial internal funding to establish the LinkLab and the Biocomplexity

Institute in the past 3 years). It has excellent relationships with leaders of the burgeoning regional technology sector in Virginia. The new chair will build on this momentum to take the UVA Computer Science department to the next level in this exciting time for its stakeholders.

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 <https://provost.virginia.edu/subsite/faculty-affairs/new-faculty-candidate-resources>.

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

Please apply online at https://uva.wdl.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Department-Chair-for-Computer-Science_R0020607 and attach the following documents:

- a CV to include contact information for three references;
- an overview of major research contributions and future research plans;
- a teaching statement;
- a statement describing your work related to diversity, equity, and inclusion;
- a cover letter describing your leadership philosophy and why you feel you are a good fit for the UVA chair position.

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

Review of candidates will begin on January 14, 2021, and will continue until filled.

For questions regarding the position, please contact Matthew Dwyer, Search Committee Chair, at matthewbdwyer@virginia.edu.

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

The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physician's Group and the Claude Moore Health Sciences Library, 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.

University of Virginia

Computer Science Postdoctoral Research Associate

The Department of Computer Science is seeking diverse candidates for one or more Postdoctoral Research Associates to conduct research in computer architecture under the supervision of Samira Khan or Kevin Skadron.

We are seeking candidates to perform cutting-edge research on computer architecture and systems as part of the UVA Center for Research on Intelligent Storage and Processing in Memory, CRISP (<https://crisp.engineering.virginia.edu>), in the areas of system support for emerging memory technologies, near-data processing, hardware accelerators, automata processing, and applications to network processing. The candidate is expected to lead their own research projects as well as mentoring and supervising Ph.D. students.

QUALIFICATIONS: Candidates must have a Ph.D. in Computer Science, Computer Engineering, or a related field by the time they take up the position. The ideal candidate will have a strong publication record and experience with one or more of the following: computer architecture simulation tools, compiler development (e.g., LLVM), kernel programming, or FPGA programming. Additional experience in optimization for a data-intensive target application domain is beneficial but not required. The applicant should also possess good technical writing skills as evidenced by their publications.

APPLICATION PROCEDURE: Apply at https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Research-Associate-in-Computer-Science_R0020764 and attach a cover letter indicating research interests, a detailed curriculum vitae, a summary of prior research experience and future research and career plans, and contact information for three references. Please note that multiple documents can be uploaded in the CV box. Make sure to upload all documents to complete your application.

APPLICATION DEADLINE: Review of applications will begin on January 20, 2021, and the posting will remain open until filled. The University will perform background checks on all new hires prior to employment.

This is a one-year appointment; however, the appointment may be renewed for an additional year contingent upon available funding and satisfactory performance.

For questions regarding this position, please contact Profs. Kevin Skadron, skadron@virginia.edu, or Samira Khan, samirakhan@virginia.edu.

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

For more information on the benefits available to postdoctoral associates at UVA, visit postdoc.virginia.edu and hr.virginia.edu/benefits.

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and Nursing, UVA Physician's Group and the Claude Moore Health Sciences Library, 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.

University of Virginia

Research Scientist in Computer Science

The University of Virginia Department of Computer Science is seeking diverse candidates for a Research Scientist position, as a member of UVA's Professional Research Staff.

We are seeking candidates to perform cutting-edge research on processor architecture and near-data processing for network processing, supporting such network functions as intrusion detection, telemetry, packet reassembly, etc. This work will be part of the UVA Center for Research on Intelligent Storage and Processing in Memory, CRISP (<https://crisp.engineering.virginia.edu>). The candidate is expected to lead their own research projects as well as mentoring and supervising Ph.D. students.

QUALIFICATIONS: Candidates must have a Ph.D. in Computer Science, Computer Engineering, or a related field by the time they take up the position. The ideal candidate will have a strong publication record in computer architecture and experience with one or more hardware architecture for network processing, hardware acceleration, memory systems, FPGAs, or automata processing.

APPLICATION PROCEDURE: Apply at https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Research-Scientist-in-Computer-Science_R0022138 and attach a cover letter indicating research interests and fit, a detailed curriculum vitae, a summary of prior research experience and future research and career plans, and contact information for three references. Please note that multiple documents can be uploaded in the CV box. Make sure to upload all documents to complete your application.

APPLICATION DEADLINE: Review of applications will begin on March 27, 2021, and the posting will remain open until filled. The University will perform background checks on all new hires prior to employment.

This is a one-year appointment; however, the appointment may be renewed for subsequent years contingent upon satisfactory performance.

For questions regarding this position, please contact Prof. Kevin Skadron, skadron@virginia.edu.

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

For more information on the benefits available to Professional Research Staff at UVA, visit hr.virginia.edu/benefits.

The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physician's Group and the Claude Moore Health Sciences Library, 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.

University of Wisconsin

Director for the American Family Insurance Data Science Institute

The University of Wisconsin-Madison seeks a Director for American Family Insurance Data Science Institute (DSI). The mission of the American Family Insurance Data Science Institute (DSI) is to perform cutting-edge research in the fundamentals of data science and to catalyze the translation of this

research into practice to advance scientific discovery in collaboration with researchers across campus and beyond. The institute and the School of Computer, Data and Information Sciences (CDIS)

will engage synergistically in ways that amplify impact through data science thought leadership, innovation, talent development and knowledge/technology transfer. The Director will provide overall

scientific leadership, strategic planning, and management of finances and day-to-day management of the Institute.

Ph.D. or other advanced degrees in a relevant discipline is required. Candidate must be eligible for tenure at the University of Wisconsin-Madison at the full professor level. The DSI Director will have a concurrent faculty appointment in an appropriate academic department. Please see full position listing and application instructions at: <https://go.wisc.edu/69ift3> or contact Kelly Marks at kelly.marks@wisc.edu or 608-262-5802.



WISCONSIN UNIVERSITY OF WISCONSIN-MADISON

Assistant Professor of Computer Sciences

As a part of the vision for the newly formed **School of Computer, Data & Information Sciences (CDIS)**, the Department of Computer Sciences at the University of Wisconsin-Madison has embarked on a multi-year effort to grow its faculty, enhance its strengths in many areas of computing, and extend its impact in interdisciplinary areas. As part of this endeavor, we invite highly qualified candidates in all areas of computer science, especially in machine learning, computer vision, natural-language processing, and software engineering, to apply to positions at the assistant professor level that will begin in August 2021.

Applicants must have a Ph.D. in Computer Science or in a closely related area prior to start of appointment. Successful candidates will show potential for developing an outstanding scholarly research program in one or more area(s) of computer science that is recognized by the leaders of the area(s) and for innovative and for student-centered teaching in computer science at all levels. Duties will include individual and classroom teaching in computer science at the undergraduate and graduate levels and advising and mentoring graduate students majoring in computer science or related areas; scholarly research in one or more area(s) of computer science; service to the department, college, university, and academic community, nationally or internationally.

All applications must be submitted through Academic Jobs Online. Application materials, including a curriculum vitae, statements of research and teaching objectives, three sample publications, and names and contact information for at least three references, must be electronically submitted via <http://cs.wisc.edu/faculty-apply>. Applicants are encouraged to submit their applications as soon as possible and no later than **March 31, 2021** to ensure full consideration. Applications will be accepted until positions are filled. Questions should be directed to recruiting@cs.wisc.edu.

See <https://www.cs.wisc.edu/people/faculty-staff-recruitment/> for further details.

UW-Madison is an equal opportunity/affirmative action employer and is committed to creating a diverse and inclusive community. We promote excellence through diversity and encourage all qualified individuals to apply. A background check is required prior to employment.

VinUniversity

The College Of Engineering & Computer Science

Through excellence in academics, research, and innovation, the College of Engineering and Computer Science (CECS) aims to create a generation of young leaders with the qualities, skills, and knowledge needed to lead the development of science and technology, to increase productivity, and bring about radical innovation for the benefit of the society.

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

AI, Data Science, Cybersecurity, Business Analytics, and Innovation.

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

All faculty members will be provided with an annual personal development fund for scholarly activities such as attending the conferences, hire research assistants, and buying research equipment. Faculty members

can also apply for internal seed grants and have opportunities to collaborate with researchers from the Vingroup ecosystem, such as Vin Bigdata, VinAI, VinBrain, VinMec, VinHomes, VinCom Retail, VinPearl, VinSmart, and VinFast.

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

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

- Faculty of Computer Science (In AI/ Machine Learning/Big Data): <https://apply.interfolio.com/84408>

- Faculty of Mathematics (In Applied Mathematics/Data Science): <https://apply.interfolio.com/84410>
- Faculty of Mechanical Engineering (In Robotics): <https://apply.interfolio.com/84409>
- Faculty of Statistics/Analytics (joint appointment with other Colleges): <https://apply.interfolio.com/83833>
- Faculty of Database Management (joint appointment with other Colleges): <https://apply.interfolio.com/83970>

Washington University in St. Louis

Computer Science & Engineering

Open Teaching Faculty Position in Data Science

The Department of Computer Science & Engineering at Washington University in St. Louis (WashU) invites applications for a teaching track faculty position at any rank (Lecturer, Senior Lecturer, or Teaching Professor) with a target start date of July 1, 2021. Appointment decisions will reflect qualification and experience. This position is not tenured nor on the tenure-track. The Department is looking for an individual with a strong interest in teaching undergraduate courses focused on **computational aspects in data science**, and in helping develop an innovative curriculum & pedagogy in the data science area.

The Teaching Track at WashU provides access to an exciting career path with competitive compensation and stability

VASSAR

One Year Visiting Assistant Professor of Computer Science

The Department of Computer Science at Vassar College invites applications for a One Year Visiting Assistant Professor to begin in the Fall semester of 2021.

For more information or to apply, please visit <https://apptrkr.com/2171253>

VASSAR

Two Year Visiting Assistant Professor of Computer Science

The Department of Computer Science at Vassar College invites applications for a Two Year Visiting Assistant Professor to begin in the Fall semester of 2021.

For more information or to apply, please visit <https://apptrkr.com/2171286>

of employment. Teaching faculty are full partners in the department, and encouraged to participate and publish in educational venues where they can share their experiences, learn of new pedagogical methods, and bring new ideas and techniques into the classroom.

Applicants should hold a doctoral degree in computer science or closely related field, and submit a complete application at <https://academicjobsonline.org/ajo/jobs/17996>.

Diversity and Inclusion are core values at Washington University, and the strong candidate will demonstrate the ability to create inclusive classrooms and environments in which a diverse array of students can learn and thrive. An Equal Opportunity Affirmative Action Employer, Washington University seeks an exceptionally qualified and diverse faculty; women, minorities, protected veterans, and candidates with disabilities are strongly encouraged to apply.

Williams College

One-Year Visiting Faculty Position

The Department of Computer Science at Williams College invites applications for a one-year visiting faculty position beginning in the fall of 2021. Candidates should have a commitment to excellence in teaching and should have a Ph.D., or made significant progress towards completing a Ph.D., in computer science or a closely related discipline by September 2021. Successful candidates will teach a total of three courses with associated labs during the academic year.

The position is open to all areas of computer science. Visiting faculty will join twelve current members of the department in supporting a thriving and diverse undergraduate computer science major. The Department of Computer Science offers a congenial working environment, an excellent student body, and state-of-the-art facilities. Many opportunities exist for collaboration across disciplines, particularly with other faculty in the sciences.

We welcome applications from members of groups traditionally underrepresented in the field. Applications should also include a curriculum vitae, teaching statement, and three letters of reference, at least one of which speaks to the candidate's promise as a teacher. The application materials should also address how the candidate's teaching, scholarship, mentorship, and/or community service might support Williams' commitment to diversity and inclusion.

Application materials must be submitted electronically via Interfolio at <http://apply.interfolio.com/84319>. Materials may be addressed to:

Professor Stephen Freund, Chair
Department of Computer Science
Williams College
Williamstown, MA 01267
<http://cs.williams.edu>

Review of applications will begin March 10 and will continue until the position is filled. Please direct all correspondence to hiring@cs.williams.edu. All offers of employment are contingent upon the completion of a background check.

Further information is available at

<http://dean-faculty.williams.edu/prospective-faculty/background-check-policy>.

Williams College is a coeducational liberal arts institution located in the Berkshire Hills of western Massachusetts. The college has built its reputation on outstanding teaching and scholarship and on the academic excellence of its approximately 2,000 students. Please visit the Williams College website (<http://www.williams.edu>) for more information. Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.

Application Process

This institution is using Interfolio's Faculty Search to conduct this search. Applicants to this position receive a free Dossier account and can send all application materials, including confidential letters of recommendation, free of charge.

Equal Employment Opportunity Statement

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Beyond meeting fully its legal obligations for non-discrimination, Williams College

is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.

York University

Multiple Positions

York University is known for championing new ways of thinking that drive teaching and research excellence. Through cross-discipline programming, innovative course design, diverse experiential learning and a supportive community environment, our students receive the education they need to create big ideas that make an impact on the world. Located in Toronto, York is the third-largest university in Canada, with a strong community of 53,000 students, 7,000 faculty and administrative staff, and 300,000+ alumni.

For more information, please visit our website at yorku.ca/acadjobs

Established in 2012, the Lassonde School of Engineering, York University offers a broad range of undergraduate and graduate programs to educate multidisciplinary problem solvers, critical thinkers, and entrepreneurs who understand creativity, communications, social responsibility, and cultural diversity. Further information is available at <http://lassonde.yorku.ca>.

The Department of Electrical Engineering and Computer Science at York University is one of the foremost academic and research departments in Canada with more than 60 faculty members, offering a range of undergraduate programs and research-intensive graduate degrees. For further information please visit <http://eecs.lassonde.yorku.ca>.

Full-Time Tenure-Track Appointments

The following positions will commence July 1, 2021, or as soon as possible thereafter and are subject to budgetary approval. Salaries will be commensurate with qualifications and experience. Successful candidates must demonstrate excellence or promise of excellence in teaching and scholarly research. Successful candidates should also be suitable for prompt appointment to the Faculty of Graduate Studies, and be licensed as a Professional Engineer in Canada, or successfully seek licensure soon after appointment, where applicable. Pedagogical innovation in high-priority areas such as experiential education and technology-enhanced learning is preferred.

Electrical Engineering & Computer Science invites applications for the following positions:

- Computer Engineering (Assistant level)
- Computer Science, Teaching Stream (2 Positions at the Assistant level)
- Interactive Systems (Assistant level)

For full consideration, we need to have received your complete application materials by March 31, 2021.

York University is an Affirmative Action (AA) employer and strongly values diversity, including gender and sexual diversity, within its community. The AA Program, which applies to women, members of visible minorities (racialized groups), Aboriginal (Indigenous) people and persons with disabilities, can be found at www.yorku.ca/acadjobs or by calling the AA line at 416-736-5713. Applicants wishing to self-identify as part of York University's Affirmative Action program can do so as part of the online application process. All qualified candidates are encouraged to apply; however, Canadian citizens, permanent residents and Indigenous peoples in Canada will be given priority. No application will be considered without a completed mandatory Work Status Declaration form which is included as part of the online application process.

For complete job descriptions and application details, visit www.yorku.ca/acadjobs