

COMPUTING RESEARCH NEWS



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

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CRN At-A-Glance

Highlights from the 2022 CRA Conference at Snowbird

After a four year hiatus due to COVID, the Computing Research Association (CRA) was thrilled to host the 2022 CRA Conference at Snowbird in person from July 19-21 in Utah. CRA welcomed department chairs and computing research leaders from across the country to network and discuss common issues concerning the future of the field. There were several engaging conference sessions on Computing Departments, Computing Education, Computing in Industry, and Computing for Good.

see page 3 for full article (and page 6 for Board meeting at Snowbird)

CRA-E's Undergraduate Research Highlights: ASU Student Decides to Research Group Decision-Making

CRA-E's "Undergraduate Research Highlights" series showcases outstanding research done by undergraduate students at universities and colleges across North America. Each article features the story of a successful undergraduate researcher and offers personal insights into their experiences with finding an advisor, undertaking new research projects, and discovering how research can impact their personal and professional future. It is one of a number of CRA-E's activities that foster and recognize talented computing researchers with the goal of increasing the research pipeline, promoting graduate education, and advocating research-based careers.

see page 9 for full article

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CRA Welcomes Tracy Camp as Executive Director

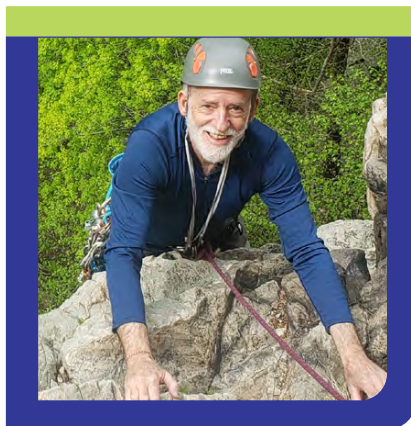


On July 1st, Dr. Tracy Camp officially took the helm as CRA Executive Director. Prior to joining CRA, Camp was the Founding Department Head of Computer Science at Colorado School of Mines (now Emeritus Professor). She brings to CRA strong experience as a leader in the computing research community, a history of spearheading diversity, equity, and inclusion initiatives in computing, and a detailed vision for leading CRA into the future. To improve communication with the community, Camp plans to launch a new “Executive Director’s Column” in *Computing Research News*.

Camp is an ACM and IEEE Fellow, with research interests in wireless networking. She is most known for improving the credibility of wireless networking simulation studies. Camp has received over 20 grants from the National Science Foundation, including an NSF Career award. In total, her projects have received over \$20 million dollars in external funding.

Camp is the first woman to serve as Executive Director of CRA. She succeeds Andrew Bernat, who served CRA for nearly 20 years before retiring in September, 2021. Special kudos go out to Peter Harsha, CRA’s Senior Director of Government Affairs, for additionally serving as Interim Executive Director since September. Many thanks to Harsha and Bernat as we welcome Camp aboard!

Andrew Bernat Receives 2022 Service to CRA Award



The **Computing Research Association** (CRA) is pleased to honor Andrew Bernat with the 2022 Service to CRA Award in recognition of nearly 20 years of service leading the organization as Executive Director.

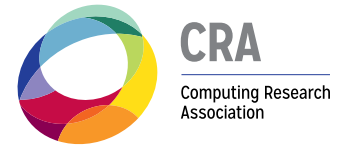
Bernat joined CRA in 2002, and under his leadership the association saw a dramatic, positive transformation, more than tripling in size and launching significant new efforts in research visioning, widening participation, and postgraduate support, while remaining the organization of record for computing research issues in Washington policy circles.

During his tenure, CRA:

- saw its financial position strengthen significantly. Expenditures increased from under \$2 million to more than \$7.5 million and the size of reserve funds increased from \$600K to more than \$3 million;
- expanded the scope of initiatives and increased staffing from 7 to 22 full time employees;
- founded the Computing Community Consortium, launched two iterations of the CIFellows programs, expanded its widening participation programs, and established the Center for Evaluating the Research Pipeline, CRA Education Committee, and CRA-Industry;
- and nurtured strong relationships with affiliates and partners in the computing community.

Bernat, who retired in September 2021, received the Service to CRA Award at the 2022 CRA Conference at Snowbird.

Highlights from the 2022 CRA Conference at Snowbird



After a four year hiatus due to COVID, the [Computing Research Association \(CRA\)](#) was thrilled to host the 2022 CRA Conference in person from July 19-21 in Snowbird, Utah. CRA welcomed department chairs and computing research leaders from across the country to network and discuss common issues concerning the future of the field. There were several engaging conference sessions on [Computing Departments](#), [Computing Education](#), [Computing in Industry](#), and [Computing for Good](#). Presentation slides have been posted to the website and are hyperlinked in blue if available.



This year's event offered many new activities. [CRA-Industry \(CRA-I\)](#) held a pre-conference meeting to bring together computer researchers and introduce them to CRA's newest committee. The main goal of the meeting was to generate ideas on ways CRA-I might expand and interact with the computer science research community. Many more computing leaders from Minority Serving Institutions were invited to attend the conference this year as well. Several gave short presentations about their institution, research portfolio, and areas for collaborations and partnerships with the larger CRA community. The session "[How and Why to Create a Departmental BPC Plan](#)" discussed their importance,

shared information on how to write department plans, and highlighted resources available.

CRA celebrated the 50th anniversary of the organization's founding with cake and a limited edition CRA Fleece Jacket. The CRA 50th anniversary fleeces were made possible by generous support from: Amazon, Google, IBM, and Microsoft. CRA Board Chair Nancy Amato awarded former CRA Executive Director Andrew Bernat with the [2022 Service to CRA Award](#) in recognition of his accomplishments leading the organization from 2002-2021. CRA also presented awards to recipients of the

Snowbird Highlights *(continued)*



CRA-E Faculty Mentoring Award, CRA Distinguished Service, CRA A. Nico Habermann, and Service to CRA Awards. The awardees prepared brief remarks in video presentations available [here](#).

Attendees heard from CRA's new Executive Director Tracy Camp and former CRA Board Chair Ellen Zegura during the opening plenary "**CRA: Looking Forward**." The session was focused on operationalizing and brainstorming activities as follow-up to the CRA Strategic Plan. Zegura described the [strategic planning process](#) and CRA's current structure and governance. Camp shared her vision for where CRA is headed for both the long-and-short-term. She highlighted several pressing challenges in the CRA computing research community and solicited feedback from attendees. Camp will share a synthesis of the feedback attendees provided during her presentation in the near future. In addition, Camp will invite the larger CRA community to Zoom call sessions to develop ideas further.

CRA Board Member Ayanna Howard delivered a plenary talk on "The Trusting of Intelligent Machines: How AI Influences

Human Behavior." She shared insights from her research that demonstrated people tend to overtrust sophisticated computing devices, including robotic systems. Because of this, the role of bias in these human-robot interaction scenarios must be carefully investigated.

The parallel tracks dove further into timely community issues/topics. A few highlights included: booming enrollments while encouraging diversity and supporting undergraduate research, developing best practices for teaching faculty, and data science. The computing industry track shined the spotlight on computing research in an industrial setting, addressed industry-academia partnerships, and explored impacts of techlash.

The [Computing Community Consortium \(CCC\)](#) led an after-dinner brainstorming session, "Reboot!", to help members of the community engage in a visioning discussion. The collaborative session encouraged idea sharing among the community. The conference concluded with "[Making a Federal Case for Computing](#)." CRA's Peter Harsha discussed how CRA is

Snowbird Highlights *(continued)*



supporting the computing research community's interests in Washington.

We hope that everyone who attended took home new insights and connections from this year's conference. Thanks to everyone who contributed to making this event a success!

2022 Conference at Snowbird Organizing Committee:

Penny Rheingans (University of Maine) Co-Chair

Shashi Shekhar (University of Minnesota) Co-Chair

Jaime Teevan (Microsoft) Co-Chair

James Allan (University of Massachusetts, Amherst)

Christine Alvarado (University of California, San Diego)

Carla Brodley (Northeastern University)

Peter Harsha (CRA)

Kate Larson (University of Waterloo)

Ran Libeskind-Hadas (Claremont McKenna College)

Divesh Srivastava (AT&T)

July 2022 CRA Board Meeting Highlights

On July 18-19, the Computing Research Association (CRA) held its July board meeting immediately before the 2022 CRA Conference at Snowbird. The meeting was led by CRA Board Chair Nancy Amato, with assistance from Executive Director Tracy Camp (who began her new role on July 1).

The Board discussed many new initiatives and board members were encouraged to consider volunteering for one of more of the committees/working groups that CRA will have this year (see list below). The Board also discussed updating and creating new CRA documents (e.g., Best Practices) on several topics, including:

- Evolving academia-industry relations in computing research
- Update to the quality and impact memo on hiring, tenure, and promotion
- Update to the postdoc best-practices document
- Multidisciplinary work
- Supporting graduate students
- Facilitating inclusive research environments
- Balancing teaching track and tenured/tenure-track faculty in departments

CRA Board Secretary Ran Libeskind-Hadas provided a brief report on the state of the new Socially Responsible Computing Board working group. The committee met with Margaret Martonosi (National Science Foundation) as well as Barbara Grosz (Harvard University) who co-chaired the National Academies report on Socially Responsible Computing to get their thoughts on how CRA might best engage with this topic. It was noted that CRA has a special opportunity to engage with industry and that we may be most effective in advancing a few issues rather than trying to take on too many.

CRA Board Member Katie Siek presented on and facilitated discussion on the value of tenure. The Board discussed (1) whether it is a computing specific issue or about the academy more generally, (2) the industry “fellow” model, and (3) the value of post-tenure review.

CRA’s Senior Director of Government Affairs Peter Harsha gave the CRA Board a preview of topics that were discussed during the “Making a Federal Case for Computing” Snowbird session, including a summary of President’s Budget Request for FY 23 as

it relates to science funding and expectation that Congress will have a Continuing Resolution through the midterm elections.

Additional presentations at the July 2022 Board meeting included, (1) a FY 2023 budget discussion by CRA Treasurer James Allan, which included details on the management of long-term reserves and an increase in advertising rates (which haven’t been modified in 15 years), (2) a Computing Community Consortium (CCC) discussion on developing ideas for the next CCC NSF grant by CCC Chair Dan Lopresti, and (3) a discussion with CRA Board member Timothy Pinkston, who is Chair of the 2023 ACM Federated Computing Research Conference (FCRC), concerning the FCRC program at the upcoming conference and what else could be added to engage the computing research community.

2022-23 CRA Committees / Working Groups:

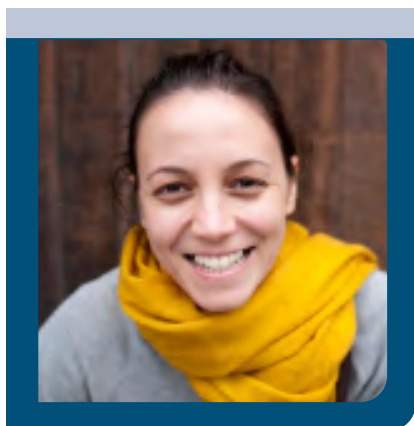
- **Finance Committee:** Oversees CRA budget and audits, chaired by the CRA Treasurer (elected officer).
- **Government Affairs Committee:** Establishes priorities and positions, provides advice to policy staff, helps to execute CRA’s policy role.
- **Elections Committee:** Develops a slate of candidates for the CRA Board for voting by our members; in odd years, develops a Board officer slate (officers serve 2 year terms).
- **Surveys Committee:** Oversees the content and operation of the annual Taulbee Survey.
- **Awards - Nomination Committee:** This committee works independently from the Awards Selection Committee, to encourage nominations to the CRA A. Nico Habermann Award and the CRA Distinguished Service Award.
- **Awards - Selection Committee:** This committee works independently from the Awards Nominations Committee. It reviews the nominees for the Habermann and Distinguished Service Award and makes recommendations to the Board, which votes on the awardees at the February Board meeting.

Board Meeting *(continued)*

- **Leadership Training Committee (Feb 2023):** This ad hoc committee will organize a leadership training workshop for mid-career computing researchers, to be held February 2023. Material from CRA-WP, which has hosted a mid-career mentoring workshop for years, can be leveraged.
- **CRA Governance Working Group:** Arising from strategic planning activity, this working group will review the CRA governance processes and propose modifications to enable CRA to better fulfill its mission. This group will also review bylaws and suggest revisions as needed to bring bylaws up to date with current practices.
- **Socially Responsible Computing Working Group:** Arising from strategic planning activity, this working group will define the scope and develop a strategy to establish the CRA as a leader in promoting socially responsible computing research.
- **Research Integrity Working Group:** This working group will include members from affiliated professional societies and publishers. Over the coming year, the objective of this committee is to understand the scope of the problem and develop best practices and solutions.
- **Misconduct Issues Working Group:** This working group will involve universities, affiliated professional societies, and funding agencies. Over the coming year, the objective of this committee is to discuss the issues related to misconduct such as sexual harassment, bullying, and abuse of power imbalances, and develop best practices and propose potential solutions, e.g., 3rd party investigations and coordinating disclosure events so survivors do not have to repeat their experiences to various organizations.
- **CRA Career Engagement Working Group:** This working group will consider how CRA can (and should) be engaged in the different points of a computing researcher's career, from undergraduate research through graduate school and beyond.
- **Communications Working Group:** The main goal of the Communications Working Group this year is to develop a communications plan for CRA, which will detail how CRA will communicate important information to key stakeholders.

CRA-WP Presents the 2022 CRA-WP Early Career Awards Honoring Skip Ellis and Anita Borg

The Committee on Widening Participation in Computing Research (CRA-WP) is proud to announce the recipients of the 2022 Skip Ellis Early Career Award and Anita Borg Early Career Award.



Maya Cakmak

Maya Cakmak of the University of Washington has been selected as the 2022 **Anita Borg Early Career Award** recipient.

The Anita Borg Early Career Award honors the late Anita Borg, who was an early member of CRA-W (before it became CRA-WP) and is inspired by her commitment to increasing the participation of women in computing research. The annual award is given to a woman in computer science and/or engineering who has made significant research contributions and who has contributed to the profession, especially in the outreach to women.



Christina Harrington

Christina Harrington of Carnegie Mellon University has been selected as the 2022 **Skip Ellis Early Career Award** recipient.

The Skip Ellis Early Career Award honors the late Clarence “Skip” Ellis, who was the first African-American to earn a Ph.D. in computer science and the first African-American to be elected a Fellow of the ACM. This award is given annually by CRA-WP to a person who identifies as a member of a group underrepresented in computing (African-American/Black, Hispanic, American Indian, Alaska Native, Native Hawaiian, Pacific Islander, and/or People with Disabilities), who has made significant research contributions in computer science and/or engineering and has also contributed to the profession, especially in outreach to underrepresented demographics.

Several CRA staff and volunteers noted (and were encouraged by) the growth in the number of superb computing researchers from diverse backgrounds committed to scholarly excellence and equal opportunity. Thank you to everyone who took the time to submit a nomination for this year, and we hope to see many more in the next cycle.

Learn more about the [CRA-WP Early Career Awards](#).

CRA-E's Undergraduate Research Highlights: ASU Student Decides to Research Group Decision-Making

CRA-E's "Undergraduate Research Highlights" series showcases outstanding research done by undergraduate students at universities and colleges across North America. Each article features the story of a successful undergraduate researcher and offers personal insights into their experiences with finding an advisor, undertaking new research projects, and discovering how research can impact their personal and professional future. It is one of a number of CRA-E's activities that foster and recognize talented computing researchers with the goal of increasing the research pipeline, promoting graduate education, and advocating research-based careers.

In addition to helping students understand the process of getting involved in research, the articles also serve as a venue for students to pass along advice to others who aspire to become involved in research themselves. Students selected for the research highlights include those receiving recognition in the **CRA Outstanding Undergraduate Researcher Award** competition. This series is written and edited by **CRA-E Graduate Fellows**.



ASU Student Decides to Research Group Decision-Making

Ryan Kemmer, B.S. Computer Science, Arizona State University

This Q&A highlight features Ryan Kemmer, an Honorable Mention in the 2021 **CRA Outstanding Undergraduate Researchers** award program. Ryan graduated from Arizona State and is now a Software Development Engineer at Amazon. This interview has been edited for length and clarity.

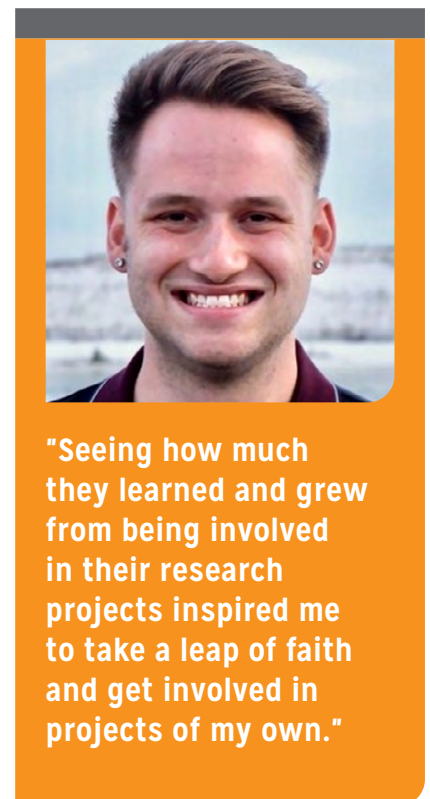
What originally influenced you to consider doing research as an undergraduate?

I had some friends who were involved in research and had rewarding career opportunities as a result of their work. Seeing how much they learned and grew from being involved in their research projects inspired me to take a leap of faith and get involved in projects of my own.

How did you find your research opportunity and hone in on a project?

I met my PI [principal investigator], Dr. Adolfo Escobedo, after taking his Operations Research elective my junior year. During his office hours, I learned about some of his research and immediately became interested.

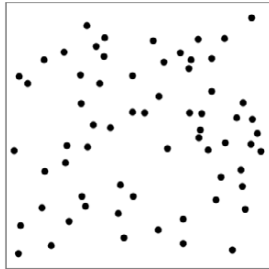
Dr. Escobedo had been studying some group decision-making algorithms and wanted to test their capabilities in human computation experiments. I helped bring this research initiative to life. In collaboration with computer science professor Dr. Ross Maciejewski and industrial engineering grad student Yaewon Yoo, we investigated best practices for collecting and aggregating data from a large number of people. Our work shows that varying input format and algorithm can significantly affect the accuracy of crowdsourced



Research Highlights *(continued)*

Exercise 1 of 4 - Numerical Estimation

UserIDtest4
Enter in an estimate for how many dots you think are in this image.
Note: Images are not displayed in the order in which they were ranked.



Enter Estimate

Next

Figure: Web application for evaluating group decision-making algorithms.

Source: <https://github.com/ryankemmer/dotsactivity-data/blob/master/public/images/images/ratings.png>

estimates. The figure below shows an example of a dot-counting estimation task we gave to our study participants.

We presented [this work](#) at the Eighth AAAI Conference on Human Computation and Crowdsourcing (HCOMP). I also presented at ASU's [Fulton Undergraduate Research Initiative \(FURI\) Symposium](#).

What challenges did you encounter when first getting started in research?

Initially, the sense of ambiguity was difficult for me. Because research is such an exploratory process, it was hard to figure out what parts of the project to prioritize. This helped me learn a lot about the scientific process and how to be a more creative engineer.

Where did you work on the research? Was there anything about your work environment(s) that was especially interesting or helpful for your research?

Most of the research was performed at the [ASU Center for Accelerating Operational Efficiency](#), a lab that has many graduate students and postdocs working on computer science and industrial engineering projects. The environment was very fun and collaborative, and I met a lot of very interesting researchers.

What skills did you develop as a researcher?

I really enjoyed improving my writing abilities. I was constantly drafting out literature reviews, results, and conclusions about my work. This really helped improve my writing skills and has given me a big appreciation for the writing process as a whole.

My project required developing and maintaining a web application to collect and retain a large body of data from human studies. I had to learn JavaScript, figure out how to maintain our database, and set up the web hosting. This work helped me become a much better developer.

How has participating in research shaped your professional path?

Through research, I developed a passion for computer science. It led me to pursue a job in data science right after college, where I applied a lot of the knowledge I learned from participating in research.

Do you have any advice for other students looking to get into research?

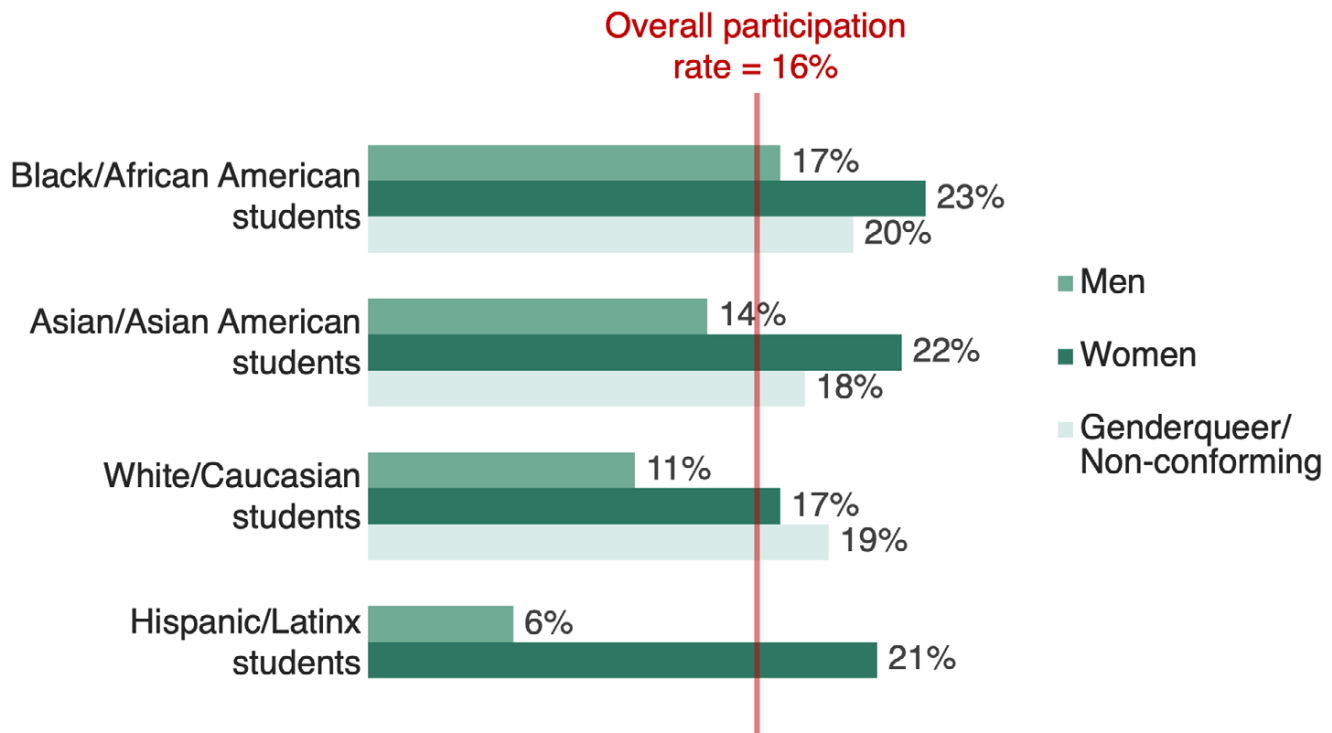
If you're curious about research, find a professor working on something you find interesting and ask to get involved. It might seem intimidating at first, especially working with people much more experienced than you, but the only way to learn is to just dive in and start!

— Edited by Ian Ludden and Nadia Ady

Rates of Participation in K-12 Outreach Vary Among Undergraduates in Computing

By Kristi Kelly, CERP Senior Research Associate

Participation in K-12 Outreach Activities during Undergraduate Program



Source: Data Buddies Survey 2021, Center for Evaluating the Research Pipeline, Computing Research Association. Percentages for Hispanic/Latinx students who identified as Genderqueer/Non-conforming are not shown due to small sample size. See Notes section below for additional information about measures, tests of statistical significance, and sample size.

Past research has shown that when computer science undergraduates engage in K-12 outreach activities, both they and their outreach audience can benefit from the experience (e.g., Kafai, et al., 2021). How common is it for undergraduate students in computing to do K-12 outreach, and does this vary among different groups of students?

The figure above displays the percentage of undergraduates in the 2021 Data Buddies Survey who indicated that they had taken part in K-12 outreach once or more during their current undergraduate program. Across all undergraduate survey respondents, 16% of students had participated in K-12 outreach activities at least once. However, there was also a large amount of variability in K-12 outreach experience among students with different racial/ethnic and gender identities. Overall, Black and Asian students had the highest rates of K-12 outreach participation, and women and genderqueer/non-conforming students participated at significantly higher rates than men did. Black women had the highest rates of participation in K-12 outreach (23%), and Hispanic/Latino men had the lowest participation rates (6%).



K-12 Outreach (*continued*)

Reference:

Kafai, Y., Griffin, J., Burke, Q., Slattery, M., Fields, D., Powell, R., Grab, M., Davidson, S., & Sun, J. (2013, March). A cascading mentoring pedagogy in a CS service learning course to broaden participation and perceptions. In Proceeding of the 44th ACM Technical Symposium on Computer Science Education (pp. 101-106).

Notes:

The survey data analyzed for this infographic were collected by [Center for Evaluating the Research Pipeline](#) via [The Data Buddies Project](#). Overall K-12 outreach participation rates were based on 10,238 undergraduate students who provided a response to the question: "How often have you been involved in K-12 outreach during your current program?" Responses options were "Never," "Once," "Two or three times," or "Four or more times." These were collapsed into two groups: those who had never participated versus those who participated once or more. Statistically significant differences for race/ethnicity and gender identity were based on z-tests with Bonferroni-corrected p values and are as follows: participation by race/ethnicity: Black students and Asian students > White students; participation rates by gender: women and genderqueer/nonconforming > men.

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](#).

The Data Buddies Project is currently supported through National Science Foundation (NSF) awards CNS-1840724, CNS-2036717, DUE-1821136, sub-awards and contracts, and direct CRA contributions. Previous NSF awards that supported DBS include CNS-1246649 and DUE-1431112. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

CRA Hosts 2022 Tisdale Fellows



By Brian Mosley, CRA Senior Policy Analyst

On Wednesday July 6th, the CRA Government Affairs Office welcomed the 2022 class of **Eben Tisdale Science Policy Fellows** to the CRA Washington DC office. These fellows, undergraduates at universities and colleges from across the United States, spent the summer at high-tech companies, firms, or trade associations in Washington, learning the intricacies of technology policy. Additionally, they took two courses at George Mason University, attended guest lectures and briefings from speakers across Washington, and attended briefings at the Capitol, the Department of State, and the National Press Club. The fellows were in the office to attend a presentation by Brian Mosley, Senior Policy Analyst in CRA's Office of Government Affairs, covering the policy concerns and issues that the association works on and attempts to influence at the federal level.

This year's Tisdale Fellow for CRA is **Dalton Hellwege** (far right). Dalton is a rising senior at the University of North Carolina at Chapel Hill, pursuing a major in Statistics and Analytics, with a minor in Studio Art. This summer, Dalton has been tracking key federal appropriation bills and other pieces of legislation. We've been thrilled to have him on staff this summer!

The Tisdale Fellows in the picture are, from left to right: Eveline Bussemaker, Dell Inc.; Bruno Soto, American Tower; Alex Leu, Technology CEO Council; and Dalton Hellwege.



Snowbird CCC “Reboot!” Session

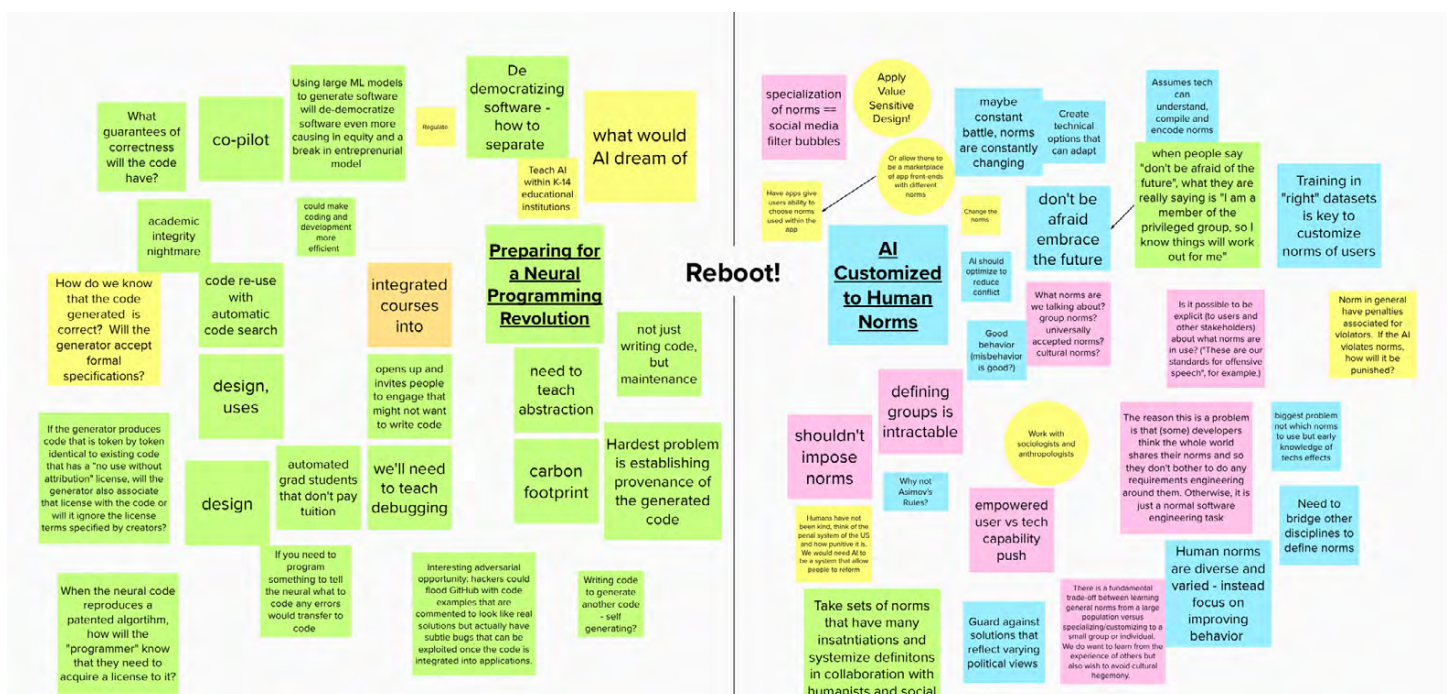
By Maddy Hunter, CCC Program Associate

Last month at CRA’s Conference at Snowbird the Computing Community Consortium (CCC) led an after-dinner brainstorming session, “Reboot!” to help members of the community engage in a visioning discussion. Led by Sujata Banerjee, Nadya Bliss, Liz Bradley, Bill Gropp, Dan Lopresti and Ann Schwartz, the session featured a series of discussions and idea sharing among the community pertaining to two topics chosen to inspire a lively discussion and to get people thinking outside of their areas - Neural Programming and Artificial Intelligence (AI) Customized to Human Norms. You can read the full description of each topic [here](#).

Participants were asked to find a partner and discuss a series of questions. The whole process began again with a new partner for the second topic. Questions for each can be found below:

Preparing for a Neural Programming Revolution:

Neural generative pre-training (GPT) language models have shown promise in applications to programming, raising the question: What happens when programming becomes completely automated?





Reboot Session (*continued*)

Questions to discuss:

- Is this a terrible idea?
- What are the possible affordances?
- What will be the hardest part in getting it right?

AI Customized to Human Norms

Making AI technology adhere to human norms is challenging!

Questions to discuss:

- What if the norms implemented by the creators of an AI-based technology do not match those of the users or others who are impacted by the technology?
- What is the hardest part of determining the norms to which AI should be customized?
 - » In particular, how should we resolve conflicts between the norms of different groups?

After the discussions, participants went back to their seats and were asked to share their ideas in one sentence. Many ideas were recorded on the virtual Mural below, either in the group share or transcribed after the event.

The goal of the session was to get people brainstorming together and, hopefully, engage in new, innovative ideas for the computing community to explore. The community needs more of these types of creative, facilitated activities to recover “innovation loss” from the pandemic. You can check out CCC’s visioning activities on the [CCC website](#).

We welcome you to participate in generating ideas, either as they relate to these two topics or other areas entirely by filling out this [form](#). We hope this session sparked ideas and conversations that will continue beyond Snowbird and catalyze new collaborations around critical research problems.

CIFellows Research Poster Session

By Maddy Hunter, CCC Program Associate

On May 25, 2022, the CIFellows were given the opportunity to present their research to the community during a poster session at the **NITRD 30th Anniversary Symposium**. The poster session was a great way to celebrate early career researchers and demonstrate the impact of federal investments in computing research.

Backed by funding from the **National Science Foundation**, the **Computing Research Association (CRA)** and the **Computing Community Consortium (CCC)** announced a Computing Innovation Fellows (CIFellows) Program for **2020** and **2021**. This program recognized the significant disruption to the academic job search caused by the COVID-19 pandemic and associated economic uncertainty and aimed to provide a career-enhancing bridge experience for new PhD graduates in computing. The CIFellows were invited to record five minute presentations about their poster which are posted on this **webpage** and listed below.

Name	Project Title
Sara Abdali	Multi-class Multi-modal Misinformation Detection with Concatenation-based Architecture and Variational Autoencoder
Rika Antonova	Distributional Representations and Differentiable Learning for Deformable Objects in Robotics
Kevin Bello	Faster, Better, and Simpler: Learning DAGs via a log-determinant acyclicity characterization
Prajakta Belsare	Investigating Temporal Patterns of Glycemic Control around Holidays
Francisco Castro	AI+Dance: Co-Designing for Culturally Sustaining AI Education with danceON
Michael Craige	NME2 and MYC Pathway Drives Resistance to Enzalutamide Treatment in CRPC Patients
Yi Ding	NURD: Negative-Unlabeled Learning for Online Datacenter Straggler Prediction
Matthew Drescher	Real World more like Scale Free
Houda Elmimouni	Robotic Telepresence to Support Remote Classroom Attendance and Interactions
Rebecca Faust	Interactive Dimension Reduction with Explainable Deep Learning for Image Sorting
Adrienne Fernandes Minori	Programmable Artificial Muscles for Modular Robots and Interactive Systems
Sainyam Galhotra	Metam: Goal-oriented data discovery
Amir Ghasemian	Restricted Randomizations to Reduce the Variance of Causal Inference Estimator in Network-based Experiments
Ben Greenman	Specifications can be Wrong
Leah Horgan	Reciprocity Project
Andrew Hundt	Robots Enact Malignant Stereotypes
Layne Jackson Hubbard	Co-Designing Child-Centered AI
Shweta Jain	Putting Parameterization into Practice
Gayithri Jayathirtha	Integrating Social, Critical, & Technical in a High School Computing Teacher Professional Development
Swapna Joshi	Designing Socio-Culturally Sensitive Sidewalk Autonomous Delivery Robots



Poster Session (continued)

Ghulam Jilani Quadri	Constructing Frameworks for Task-Optimized Visualizations
Anne Jonas	Exploring Networks of Care and Solidarity in the Design of Virtual Schooling
Vera Khovanskaya	What is the Role of Technology and Data Expertise in Supporting Worker Advocacy Movements?
Rafal Kocielnik	Modern AI with Human-Centered Approach
Taisa Kushner	BlockRQA: A Novel Tool for Automatic Pattern Detection Across Multivariate and Mixed-Type Time-Series Data
Zoey Liu	Data-driven Evaluation for Crosslinguistic Low-resource Natural Language Processing
Samiha Marwan	Subgoals' Learning Now, and Then!
Mehran Mirramezani	A Rapid and Automated Approach to the Design of Multistable Metastructures
Marziyeh Nourian	Portable Programming of High-performance Data Transformation
Denis Peskoff	Natural Language Processing for Social Science
Brianna Posadas	Socially Responsible AI Assurance in Precision Agriculture for Farmers and Policymakers
Raghavendra Pradyumna Pothukuchi	Connecting Cognitive Modeling with Quantum Systems
Lana Ramjit	Scaling Clinical Computer Security for Survivors of Intimate Partner Violence
Amrita Roy Chowdhury	Eiffel: Ensuring Integrity for Federated Learning
Gourav Saha	Scheduling and Learning Algorithms for Millimeter-Wave Communication
Jean Salac	Moving from Equity to Justice in Computing Education for Youth
Soheil Salehi	Towards Hardware and AI-assisted Security: A Defense-In-Depth Approach
Nasim Sonboli	Data Minimization Could Increase Unfairness!
Abigale Stangl	Safeguarding Private Visual Information
Minka Stoyanova	Using Digital Media to Activate Archival Material and to Augment Urban Space
Gokul Subramanian Ravi	CAFQA: Clifford Ansatz For Quantum Accuracy
David Tench	GraphZeppelin: Processing Enormous, Changing Graphs
Morgan L. Turner	How did Dinosaurs Walk?
Jesús Valdiviezo	Describing Chemical Dynamics with Quantum Simulators
Le Xu	Dirigo: Self-scaling Stateful Actors For Serverless Real-time Data Processing
Kianoosh Yousefi	Surface Wind Stress Model for Turbulent Flows Above Ocean Surface Waves
Wanrong Zhang	Private Sequential Hypothesis Testing for Statisticians: Privacy, Error Rates, and Sample Size
Jieyu Zhao	Gender Bias in NLP
Yixue Zhao	Program Analysis for Latency Optimization for Mobile Apps (PALOMA)
Tara Zimmerman	Social Noise: The Influence of Observers On Social Media Information Behavior

Some CIFellows chose not to record video, but still created posters. You can view all posters [here](#).

CCC Looks Forward to Working with New Leadership and Council Members

By Haley Griffin, CCC Program Associate

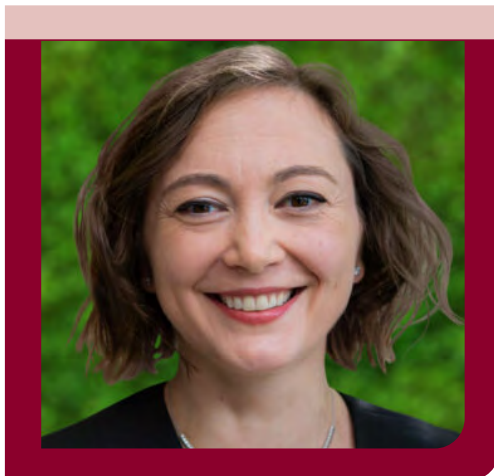
The Computing Community Consortium (CCC) is thrilled to announce that as of July 1, **Daniel Lopresti** is the new Chair and **Nadya T. Bliss** is the new Vice Chair. Both have been essential members of the Council for years and we look forward to their continued leadership in their new roles.



Daniel Lopresti

Lopresti has been CCC's Vice Chair since July 1, 2020 and a member of the Council since July 1, 2015. In addition to being the Vice Chair, he has served the Council in many different capacities throughout his tenure, from leading task forces to authoring several quadrennial and white papers, and organizing visioning activities on broad topics from **Applying AI in the Fight Against Modern Slavery** to **Best Practices for Hybrid Workshops**. He played a pivotal part in the release of the August 2019 **20-Year Roadmap for Artificial Intelligence** and was featured on episode 13 and 14 of the **Catalyzing Computing Podcast** discussing his work on applying computer science to molecular biology, pattern recognition, and voting machine security.

Bliss has been an executive member of the Council since July 1, 2019 and a member of the Council since July 1, 2017. During her time on the Council, Bliss has played a key role in all areas of security and computing. She has been a lead on activities ranging from **climate science** to work on **mis- and dis-information**, organizing and hosting many **CCC sessions** at the American Association for the Advancement of Science (AAAS) Annual Meeting, and participating as a member and lead of several CCC task forces. Bliss was featured on episode 27 and 28 of the Catalyzing Computing Podcast talking about her work on global security and graph analytics.



Nadya T. Bliss

Tracy Camp has joined CCC's parent organization, CRA, as Executive Director. CCC looks forward to welcoming her to the Council and Executive Committee. Council members **Katie Siek** and **David Danks** are also joining the Executive Committee. **William Gropp** is also serving another year, and **Elizabeth Bradley** will remain a part of the team as Chair Emerita.

We are very excited to also welcome 6 new council members: **Randal Burns** from Johns Hopkins University, **David Jensen** from the University of Massachusetts Amherst, **Rada Mihalcea** from the University of Michigan, **Rajmohan Rajaraman** from Northeastern University, **Matthew Turk** from Toyota Technical Institute at Chicago, and **Pamela Wisniewski** from the University of Central Florida.

You can read more about them in our previous **blog post**.

Inaugural CRA-Industry Meeting at Snowbird

By Helen Wright, CRA-Industry Senior Program Associate

CRA-Industry (CRA-I) held its inaugural meeting at the 2022 CRA Conference at Snowbird in which over 60 participants from academia, industry, and government attended. The goal of the meeting was to bring together computer researchers and introduce them to the Computing Research Association's (CRA) newest committee and generate ideas of how CRA-I can expand and interact with the computer science (CS) research community.

There were **four presentations** from Erwin Gianchandani (National Science Foundation's Assistant Director for Translation, Innovation, and Partnerships), Gregory D. Hager (Director of Applied Science for Amazon Physical Stores), Elizabeth Mynatt (Dean of Khoury College of Computer Sciences at Northeastern University), and Fernando Pereira (Vice President and Engineering Fellow at Google). The keynotes helped set the stage for the breakout sessions which were geared towards CRA-I's engagement within itself, CRA, and the community.

There was much discussion during the breakout session that CRA-I should focus on companies that are most interested in CS research. Some of these companies might not have a research group yet, but may be starting one soon. CRA-I could provide advice in the form of best practices on a range of things, such as joint appointments, IP policies that universities and industry can use, infrastructure, and publishing industry sponsored work.

There was also discussion that outstanding researchers in industry may want a role in universities that is more respected than a typical adjunct professor position. CRA-I could help set a standard by designating individuals as "CRA Teaching Fellows" or "Distinguished CRA-I Teaching Fellows." Some industry researchers would be great teachers at universities, but would benefit from having their teaching efforts be given more visibility and prestige. CRA-I could establish this appropriate prestige and give those researchers a chance to interact with the next generation of computer scientists.

Finally, it was discussed that CRA-I could be the natural convener among industry for the various Requests for Informations (RFI) that regularly come out of the Federal Register. CRA-I could reach out to the right people at each company to get their response and put together a document from the industry research community. A document in which many companies agree upon would be very powerful and show a unique collaboration that otherwise would not have happened without CRA-I.

The CRA-I Steering Committee is preparing a larger white paper based on the industry events at the 2022 CRA Conference at Snowbird 2022. Please stay tuned. As always, let us know if you have more ideas about how CRA-I can impact and interact with the community. Contact us at industryinfo@cra.org.



"The goal of the meeting was to bring together computer researchers and introduce them to the Computing Research Association's (CRA) newest committee and generate ideas of how CRA-I can expand and interact with the computer science (CS) research community."

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Evelyn Yarzebinski, Senior Research Associate, CERP

Column Editors

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

Boston University

ECE Teaching Faculty

The Department of Electrical and Computer Engineering at Boston University invites applications for an anticipated teaching position beginning the fall term of 2022. This non-tenure track position will be at the level of Instructor, Lecturer or possibly a Professor of Practice. Interested candidates should be committed to delivering excellent courses at all levels in Electrical and Computer Engineering. Particular areas of need are introductory programming, software engineering, operating systems, networks and algorithms, and senior design.

Applicants for the position must have a Ph.D. in Electrical Engineering, Computer Engineering, Computer Science, or related field. Ideal candidates will have a track record of excellence in teaching.

Salary will be provided for the 9-month academic year. Possibilities of support in the summer include summer classes, and various outreach programs.

Instructional faculty in the Electrical and Computer Engineering department are expected to teach multiple courses per year (typically at least four) with multiple sections of the same course counting towards that total. These positions come with full benefits.

ECE at BU is a world-class department with excellent resources that is steadily gaining national and international prominence for its exceptional research

and education record. ECE is part of BU's rapidly growing and innovative College of Engineering, and currently consists of 47 faculty members, 325 graduate students, and 350 BS majors.

Beyond its research and academic activities, BU has a lively, urban campus situated along the banks of the Charles River in Boston's historic Fenway-Kenmore neighborhood. The campus and surrounding areas offer limitless opportunities for recreational activities, from world-class art and performances to sporting events and fine dining.

Interested applicants should send a cover letter and Curriculum Vitae by e-mail to:

The ECE main office ECEmain@bu.edu or contact the department by regular mail.

Boston University is an Equal Opportunity/Affirmative Action Employer.

Boston University is an AAU institution with a rich tradition dedicated to inclusion and social justice and a commitment to broadening participation of underrepresented groups in engineering.

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

Carleton College

Assistant Professor of Computer Science

Carleton College invites applications for a tenure-track position in computer science, to begin September 1, 2023. We expect to make an appointment at the Assistant Professor level, but we are also happy to consider applications from qualified candidates at any rank. We welcome candidates with any specialization in computer science or closely related fields, and we are particularly interested in applicants who can help us strengthen our commitment to inclusion, diversity, and equity.

Applications are due September 28, 2022.

[View the full job posting here.](#)

Carnegie Mellon University School of Computer Science

Faculty Hiring All Tracks

The School of Computer Science at Carnegie Mellon pushes the boundaries of computer science research and education. The School houses seven departments: Computational Biology, Computer Science, Human-Computer Interaction, Software and Societal Systems, Language Technologies, Machine Learning and Robotics.

SCS is seeking to fill several faculty positions across all departments, in all tracks and at all levels, with joint appointments when appropriate. The four faculty tracks in our School include: tenure, research, systems and teaching tracks. We are seeking candidates

with a strong interest in research and/or teaching, an earned Ph.D. (in computer science or relevant fields), and outstanding academic credentials. Such candidates must possess the ability to collaborate with other faculty. Candidates for tenure and teaching track appointments should also have a strong interest in graduate and undergraduate education and therefore must be prepared to teach in a wide variety of settings, for example, large undergraduate lecture courses and classes delivered in non-traditional formats. Research track faculty are not required to teach and generally focus most or all of their effort on cutting-edge research. Systems Track similarly teach only on an exceptional basis and focus all or most of their effort on making novel systems.

Candidates with a commitment toward building an equitable and diverse scholarly community are particularly encouraged to apply. We continuously seek to improve the diversity of our student, staff and faculty populations, including and especially through annual faculty hiring processes.

Each department's hiring committee thoroughly reviews the qualifications of every applicant, and are particularly enthusiastic about applicants whose background and experiences would make them unique among our faculty. Applications from candidates who have a demonstrated track record in mentoring and nurturing women and students from groups traditionally underrepresented in computer science are strongly encouraged.

We will begin accepting applications beginning August 2, 2022. To ensure

full consideration of your application, please submit all materials no later than December 8, 2022. In your cover letter, please indicate clearly the department(s) you are applying to.

You can learn more about our hiring plans and application instructions by visiting <https://scsdean.cs.cmu.edu/faculty-hiring>

IMPORTANT: At this site you will find guidance regarding specific timelines for review of applications in each of our departments.

Please send email to faculty-search@cs.cmu.edu with any questions.

Carnegie Mellon University shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

Carnegie Mellon University School of Computer Science

Faculty Hiring Teaching Track

The School of Computer Science (SCS) at Carnegie Mellon University is one of the world's leading organizations for computer science academic research and education.

The college houses seven departments: Computational Biology, Computer Science, Human-Computer Interaction, Software and Societal Systems, Language Technologies, Machine Learning, and Robotics. Carnegie Mellon University is located in Pittsburgh, PA, USA, a vibrant yet affordable city known especially for its opportunities and resources in medicine, technology, the arts, and higher education.

SCS is seeking to fill several teaching track faculty positions, across all departments, with joint appointments when appropriate. The teaching track in SCS offers career-oriented positions focused on educational excellence.

Candidates for teaching track appointments should have strong interest and experience in graduate and undergraduate education, a Ph.D. in Computer Science or a relevant field, and outstanding academic credentials. Some programs will consider applicants with an MS and significant experience. The position involves teaching classes in their general area of expertise, ranging from large undergraduate lecture courses to small studio courses depending on departmental needs. We encourage candidates looking to gain teaching experience to explore the Postdoctoral Teaching Fellow programs available in SCS <http://apply.interfolio.com/109743>.

In addition to being excellent educators, candidates are encouraged to contribute to the department through activities such as research, outreach, advising, or curriculum development.

Candidates with a commitment to building an equitable and diverse scholarly

community are particularly encouraged to apply. We encourage applications from candidates who have a demonstrated track record in mentoring and nurturing students from groups traditionally underrepresented in computer science.

We will begin accepting applications beginning August 2, 2022. We will review applications based on two deadlines: October 2, 2022 and December 8, 2022.

To ensure full consideration of your application, please submit all materials no later than your chosen deadline. In your cover letter, please indicate clearly the department(s) to which you are applying. You can learn more about the hiring plans of each department and application instructions by visiting <http://apply.interfolio.com/109399>.

Please send an email to faculty-search@cs.cmu.edu with any questions.

Carnegie Mellon University shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

Claremont McKenna College

Founding Faculty Positions in Integrated Sciences

Claremont McKenna College's new *Kravis Department of Integrated Sciences* seeks four Founding Faculty members who will have a central role in building an innovative and transformational undergraduate science program organized around three challenges: Health (Genomics, Systems Biology, and Health), Brain (Brain, Learning, and Decision Sciences), and Planet (Climate, Energy, and the Environment). The Founding Faculty will have a key role in developing and implementing a program that will serve as an incubator for new approaches and foster a culture of inclusion, creativity, and continuous improvement. While senior and mid-career faculty are particularly encouraged to apply, faculty candidates at all ranks will receive serious consideration.

The Founding Faculty members will be outstanding teacher-scholars with experience in developing and teaching innovative science curricula at the undergraduate level, broad multidisciplinary perspectives, and excellent research programs that can meaningfully involve undergraduates.

The **life sciences, computing, and data sciences** are central to the new Integrated Sciences program and candidates with backgrounds including (but not limited to) bioinformatics, computational biology, and computational and data science approaches to the natural sciences in general are particularly encouraged to apply.

Claremont McKenna College is a highly selective undergraduate institution of 1300 students ranked among the top liberal arts colleges nationally. It is part of The Claremont Colleges, which also includes Pomona College, Scripps College, Harvey Mudd College, Pitzer College, Claremont Graduate University, and Keck Graduate Institute. Combined, the members of The Claremont Colleges have more than 6000 students. Claremont is located 35 miles east of downtown Los Angeles.

The Founding Faculty members will work closely with Ran Libeskind-Hadas (Founding Chair) and Muriel Poston (Vice President for Strategic Initiatives) and be directly involved in (1) planning the department's academic programs and curricula; (2) developing and teaching transformative new courses including our new integrated science general education courses that will be taken by all CMC students; and (3) recruiting, hiring, and mentoring subsequent cohorts of faculty.

Applications will be reviewed on a rolling basis commencing on July 15, 2022 with the search continuing throughout academic year 2022-23 until the positions are filled. The founding faculty are anticipated to join the department in July 2023.

Claremont McKenna College is an equal-opportunity employer. In a continuing effort to enrich its academic environment, the department actively encourages applications from women and members of historically under-represented social groups in higher education.

For more information, please go to:

https://webapps.cmc.edu/jobs/faculty/faculty_opening_detail.php?PostingID=16088

Inquiries and questions can also be sent to the department chair, Ran Libeskind-Hadas, at rhadas@cmc.edu

College of the Holy Cross

Visiting Full-Time and Part-Time Faculty Positions in Computer Science

The Department of Mathematics and Computer Science at the College of the Holy Cross invites applications for visiting full-time and part-time faculty positions in computer science for 2022-2023. Candidates in all areas of computer science are encouraged to apply. Visiting faculty may teach at introductory, intermediate, or advanced levels. Full-time visitors teach 3 courses each semester and are eligible for travel support and reimbursement of relocation costs within the College's published policies. Full-time appointments offer competitive salaries and include full benefits. Part-time visitors teach up to 2 courses per semester and are ineligible for employee benefits. The College seeks faculty members whose scholarship, teaching, and service demonstrate commitment to the educational benefits of a richly diverse community. While a Ph.D. in computer science or closely related field is preferred, candidates with MS or equivalent degrees, who are ABD, or who have professional experience are strongly encouraged to apply.

Review of applications will begin immediately. Please direct questions to Kevin Walsh, kwalsh@holycross.edu

For more information and to apply,

visit: <https://apply.interfolio.com/106397>

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 School of Mines

Postdoc position in hardware acceleration of machine learning for robotics applications

Department of Computer Science invites applications for a 1-year postdoc position, potentially renewable for 2 years. The postdoctoral fellow will work with Prof. Iris Bahar on research that investigates various algorithmic and hardware acceleration approaches that provide effective robot perception in unstructured, natural environments in real-time and at efficient energy cost. The postdoc should have knowledge of robotics-oriented algorithms (for scene perception or motion planning) as well as experience with FPGA/ASICs development.

To apply, please send your CV and research statement to ribahar@mines.edu.

Colorado State University

Non Tenure-Track Computer Science Assistant, Associate or Full Professor of Practice - Open Pool

The CSU (Colorado State University) Department of Computer Science is accepting applications for teaching positions for the 2022-2023 academic

year. The open positions are non-tenure track and may be temporary or special assignment. Annual terms and reappointment may depend on performance and/or funding availability.

To read the full job announcement and apply to the open pool see <https://jobs.colostate.edu/postings/100191>. References will not be contacted without prior notification to candidates.

The open pool applications are valid through September 15, 2022, at which time all applicants wishing to remain in the open pool must reapply.

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

Colorado State University

Computer Science Instructor - Open Pool

The CSU (Colorado State University) Department of Computer Science is accepting applications for teaching positions the 2022-2023 academic year. The open positions are non-tenure track and may be temporary or special assignment. Annual terms and reappointment may depend on performance and/or funding availability.

To read the full job announcement and apply to the open pool active until September 30, 2022, see <https://jobs.colostate.edu/postings/92730>.

References will not be contacted without prior notification to candidates.

The open pool is valid through September 30, 2022, at which time all

applicants wishing to remain in the open pool must reapply.

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

Connecticut College

Visiting Assistant Professor of Computer Science

Connecticut College invites applications for a one-year visiting position at the rank of visiting assistant professor to begin in Fall 2022.

Review of applications will start on June 30, 2022 and continue until the position is filled.

See full job description at <http://apply.interfolio.com/108448>.

Emory University

Global Diabetes Research Center

Faculty Positions in Artificial Intelligence and Diabetes & Cardiometabolic Diseases

Woodruff Health Sciences Center, Emory University, is seeking to recruit multiple, open-rank **tenure-track faculty** (assistant, associate, or full professor) with expertise in **Artificial Intelligence (AI) and either experience or interest in its application to diabetes and its complications.**

Emory is making a major commitment to Artificial Intelligence (AI) with the goal of creating a vibrant and coherent research and teaching community that represents the diverse interests of Emory's schools and units and expand offerings to undergraduate, graduate, and professional school students. As part of

this "AI-Humanity Initiative" supported by the Office of the Provost at Emory University, the Emory Global Diabetes Research Center (EGDRC) is committed to enabling its rich interdisciplinary research ecosystem for the application of cutting-edge AI and machine learning (ML) methods to diabetes research. We interpret AI as broadly but not limited to data analytics, image analysis and computer vision, prediction, and modeling. Some of the areas for domestic and global health applications of AI and ML to diabetes and associated cardiometabolic complications (e.g., heart, kidney, limb, and eye diseases) include: etiology, prevention; diagnosis and prognosis; precision diabetes; experiments customized to disease phenotypes and behavioral and/or pharmacological approaches; approaches to health equity, public health, and healthcare delivery; complex systems and biology modeling to optimize discovery; and decision-making for policy and practice.

The ideal candidate should have a doctoral degree (in a relevant discipline) with a strong record of AI academic research, a demonstrated capacity to publish and the potential to secure external funding, and either have prior experience or be interested in the application of AI to diabetes-related domains. The individual should have ability to be a team player in interdisciplinary research while carving out a distinctive niche diabetes. Multiple opportunities for multidisciplinary collaboration exist across the Woodruff Health Sciences Center (WHSC) and other divisions of Emory University. The candidate's interest and scholarly discipline will determine the

primary appointment (e.g., Schools of Medicine, Public Health, Nursing, or the College of Arts and Sciences), and cross-appointments within the 3 WHSC schools and/or any of the other Emory Schools (Arts & Sciences, Business, Law, Theology) will be encouraged.

To apply, [click here](#) or go to <https://faculty-emory.icims.com/jobs> and search for "91656". For additional information: Mark Hutcheson, mhutch3@emory.edu.

Georgia Tech

Open PostDoc Positions

The Cyber-Physical Security Lab at Georgia Tech has open Postdoctoral Researcher positions for immediate start in Fall 2022 or Spring 2023. Strong expertise in hands-on systems/software security, control theory or AI/machine learning is required. These positions are for the projects on controller/PLC security, secure manufacturing and 3D printers, medical device security, and trustworthy power grids.

Please apply here: <https://forms.gle/BQi1MKt71Vqm5oEd7>

Grand View University

Instructor of Computer Science (1-year appointment)

For additional information, and to apply:

<http://grandview.hrmdirect.com/employment/job-opening.php?req=2120104&&&nohd#job>



Founding Tenured/Tenure-Track Faculty

The Hong Kong University of Science and Technology (HKUST) is a leading international university ranked 3rd by Times Higher Education Young University Rankings 2022 and 34th by QS World University Rankings 2022. HKUST establishes HKUST(GZ) in Guangzhou, China (hkust-gz.edu.cn). HKUST(GZ) synergizes with and maintains the same academic standard as HKUST. Microelectronics Thrust is an academic department in HKUST(GZ) and focuses on integrating novel devices into circuits, architecting information systems, and automating their designs and optimizations. English is the instruction and administration medium at HKUST(GZ), and a good command of written and spoken English is required.



Microelectronics Thrust is an academic department in HKUST(GZ) and focuses on integrating novel devices into circuits, architecting information systems, and automating their designs and optimizations. English is the instruction and administration medium at HKUST(GZ), and a good command of written and spoken English is required.

OPENINGS in Microelectronics Thrust are tenured/tenure-track positions at the ranks of Assistant Professor, Associate Professor, and Professor with the following basic requirements.

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

APPLICANTS should have a PhD degree and research in areas such as the following.

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

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

APPLICATIONS should be submitted at <https://facrecruit.hkust.edu.hk> which will be open until the positions are filled. If there is any question, please contact the Acting Department Head, Prof. Jiang Xu, at jiang.xu@ust.hk. HKUST(GZ) is committed to equal opportunity and diversity in recruitment and employment. We strongly encourage candidates of diverse backgrounds to apply. You can find a list of our existing faculty at <https://facultyprofiles.hkust-gz.edu.cn/thrust-faculties?code=10011A1000000000H22>.



Indiana University Bloomington

Postdoctoral Fellow

The Observatory on Social Media at Indiana University Bloomington invites applications for a 1 year postdoc position, potentially renewable for 2 years. The Postdoctoral Fellow will work with Alessandro Flammini and Filippo Menczer on research related to online influence campaigns and misinformation diffusion, at the intersection of machine learning, networks, data, and computational social science. Applications should be submitted as soon as possible but will be considered until the position is filled.

To learn more about requirements, and the university's commitment to equal employment, please visit: <https://indiana.peopleadmin.com/postings/12895>.

Anticipated start date is August 1, 2022.

Indiana University

Luddy School of Informatics, Computing, and Engineering

Lecturer Positions in Informatics Department

The Luddy School of Informatics, Computing, and Engineering at Indiana University-Bloomington invites applications for multiple non-tenure track lecturer positions in the Informatics Department. The start date for the positions is August 1, 2022 (negotiable). Informatics aims to teach students to critically examine technologies from multiple viewpoints (social, technical, etc.), find ways to solve problems using technology,

and be able to effectively utilize different technologies to implement solutions (e.g., programming, prototyping, etc.).

We are particularly interested in candidates who can teach our core courses in any of the following areas: security, introductory programming (Python), database development, web design, application development, mobile development, human-centered computing and human-computer interaction, virtual and augmented reality, data science, or social and organizational informatics or project management related to those areas.

In addition to course responsibilities, lecturers also supervise associate instructors and undergraduate teaching assistants assigned to their classes, develop laboratory material, grade, and perform other duties as assigned. Service is an important component of all faculty positions.

Lecturers at Indiana University are valued members of the faculty and are expected to support the teaching mission of the Luddy School through excellence in pedagogical practice, service to the school and academic programs, and inquiry into the advancement of pedagogy in computing or other professional development. After successfully completing a probationary period, lecturers are eligible for long-term contracts and promotion to Senior Lecturer rank. Senior Lecturers become eligible for promotion to Teaching Professor. Salary will be commensurate with qualifications and experience.

Candidates should possess a Master's of Science (MS) or higher degree

in Informatics, Computer Science, Information Science, or a related discipline, or equivalent tested experience and mastery in industry, and should be able to demonstrate a record of teaching excellence and enthusiasm.

We seek candidates prepared to contribute to our commitment to diversity and inclusion in higher education. The strongest candidates can demonstrate their experience in teaching or working with diverse student populations.

Candidates should review the application requirements and apply online at:

<https://indiana.peopleadmin.com/postings/12985>

For full consideration, applications must be received before June 20, 2022. However, we will continue accepting applications after this date and until the positions are filled. Interviews will begin as early as June 24, 2022.

Questions may be emailed to J Duncan at johfdunc@indiana.edu

Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment based on individual qualifications. Indiana University prohibits discrimination based on age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status.

INSAIT

Open Faculty Positions at INSAIT

The Institute for Computer Science, Artificial Intelligence, and Technology (*INSAIT*), created in partnership with Switzerland's ETH Zurich and EPFL, seeks candidates for *faculty positions* starting immediately, or on a mutually agreed date thereafter.

Founded in 2021 and located in Sofia, Bulgaria, INSAIT's mission is to become a world-class computer science and artificial intelligence research institute. As such, INSAIT is structured similarly to top U.S. and European universities and provides outstanding working conditions.

We welcome excellent faculty applicants in all areas of computer science and artificial intelligence who embrace INSAIT's mission, at both levels, junior tenure-track faculty as well as tenured researchers. Faculty duties involve supervision of graduate students as well as teaching graduate courses. Opportunities to supervise B.Sc. or M.Sc. dissertations are also provided.

To be eligible for this position candidates should:

- have earned a Ph.D. in computer science by the start of the position.
- demonstrate evidence they are able to pursue a strong and independent research program.
- have a strong commitment to teaching graduate courses.

Applications must include a curriculum vitae (CV), a research statement (up to 5 pages)

and a teaching statement (up to 2 pages). Further, the application should provide the names and email addresses of three or more referees. The referees should be professionally established researchers who know the candidate well, both academically and personally. It is the responsibility of the candidate to arrange reference letters to be sent to contact@insait.ai.

When ready to apply, go to:
<https://insait.ai/join-as-faculty/>

INSAIT is a strong proponent of equal opportunities, diversity and inclusion, and as such, we strive to offer equal opportunities and access to all candidates regardless of their race, colour, ethnic or social origin, genetic features, language, religion or belief, political or any other opinion, membership of a minority, birth, disability, age, sexual identity or any other characteristic. We strongly welcome applications from all under-represented groups in the field.

Johns Hopkins University

Postdoctoral Researcher

The Center for Language and Speech Processing (CLSP) at the Johns Hopkins University seeks applicants for postdoctoral fellowship positions in natural language processing and explainable AI. Applicants must have a Ph.D. in a relevant discipline and a strong research record.

Johns Hopkins University is a private university located in Baltimore, Maryland. With its cultural heritage, rich history, and

unique neighborhoods, Baltimore is a city with something to offer everyone.

CLSP is one of the world's largest academic centers focused on speech and language with over a dozen faculty members and 80 graduate students. It has a history of placing students in top academic and industry positions.

Applicants are not required to be US citizens or permanent residents.

Details and application information:
<https://www.clsp.jhu.edu/employment-opportunities/>

Lafayette College

Assistant Professor

Computer Science Department 2 Full-Time Positions

The Lafayette College Computer Science Department invites applications for two full-time, tenure-track Assistant Professor positions commencing in July 2023. Candidates from all computing-related research areas including interdisciplinary ones are encouraged to apply.

Successful candidates should have earned a Ph.D. in computer science or a related field by the start of their appointment. The department especially welcomes applications from candidates who will contribute to Lafayette's commitment to diversity and inclusion. Candidates with credentials meriting an initial appointment at the associate professor level will also be considered. The Department is an ABET-accredited program consisting of seven full-time tenure-track faculty positions.

The department faculty have a diverse set of interests ranging from theoretical computer science and computer systems to tutoring systems, agent-based systems, natural computing and biological modeling. Reflecting this wide range of interests, the department is very supportive of interdisciplinary work and consistently reaches out to other parts of the college to support computation in all its many forms. The department offers Bachelor of Science and Bachelor of Arts degrees in computer science, as well as minors in computer science and computational methods. Department faculty also play a key role in the newly established data science minor. Faculty members teach the equivalent of four courses in their first year and five courses per year thereafter. The college and department are very supportive of research with funds for conference/research travel available and a student research program (the EXCEL Scholars program) where students collaborate closely with faculty to support their research goals. For more details about the department, program and the position, please see our webpage: <https://compsci.lafayette.edu>.

Applicants should submit their application materials through <https://apply.interfolio.com/108985>.

The application materials (cover letter, c.v., teaching statement, research statement and 3 letters of recommendation) should demonstrate the applicant's commitment to teaching in an undergraduate, liberal arts environment and address how the applicant's teaching, research, and/or service will support Lafayette's commitment

to diversity and inclusion as articulated in the college's diversity statement (diversity.lafayette.edu/diversity-statement/).

Review of applications will begin on October 24, 2022. However, applications will be accepted until the position is filled. Questions about the position should be directed to Prof. Chun Wai Liew, Department Head and Search Committee Chair, at liewc@lafayette.edu.

Located within 70 miles of New York and Philadelphia, Lafayette College is a highly selective undergraduate liberal arts and engineering institution with significant resources to support faculty members in their teaching and scholarship.

Lafayette College is committed to creating a diverse community: one that is inclusive and responsive, and is supportive of each and all of its faculty, students, and staff. All members of the College community share a responsibility for creating, maintaining, and developing a learning environment in which difference is valued, equity is sought, and inclusiveness is practiced. Lafayette College is an equal opportunity employer and encourages applications from women and minorities.

Michigan Tech

Assistant, Associate or Full Teaching Professor

Michigan Technological University Department of Computer Science invites applications for an instructional track faculty position beginning August 2022 or January 2023. Candidates are expected

to demonstrate potential for excellence in teaching across the CS curriculum. Specific areas of need include introductory programming and software engineering. A typical load is three courses per semester, along with service responsibilities.

Michigan Tech attracts world-class faculty who enrich the educational experience of smart, motivated, and adventurous students. Applicants who are committed to promoting a sense of belonging and contributing to an equitable and inclusive learning environment for all are strongly encouraged to apply (<https://www.mtu.edu/diversity-inclusion/>).

The Department has 24 regular faculty members, 550 undergraduate students in two degree programs and 75 graduate students in four graduate programs. Michigan Tech is an internationally renowned doctoral research university with approximately 7000 students and 400 faculty located in Houghton, Michigan, in the scenic Upper Peninsula on the south shore of Lake Superior. The area provides a unique setting where natural beauty, culture, education, and a diversity of residents from around the world come together to share superb living and learning experiences. Michigan Tech is nationally ranked among the best universities for job placement, return on investment, and safety.

Review of applications will begin immediately and continue until the position is filled. Submit applications online at <http://www.employment.mtu.edu/cw/en-us/job/492975>. To learn more, visit <https://www.mtu.edu/cs/> or contact the Department Chair, Dr. Linda Ott, at linda@mtu.edu.

Michigan Tech recognizes the importance of supporting faculty members' partners; candidates selected for on-campus interviews will be invited to bring a guest. Additional details on our Partner Engagement Program can be found at <https://www.mtu.edu/provost/programs/partner-engagement/>.

Michigan Tech is proud to be an ADVANCE Institution that has thrice received National Science Foundation support to increase diversity, inclusion, and the participation and advancement of women and underrepresented individuals in STEM. (see <https://www.mtu.edu/advance/>). Michigan Tech is an EOE that

provides equal opportunity for all, including protected veterans and individuals with disabilities.

Murray State University

Assistant Professor, Computer Science & Information Systems

The Murray State University Department of Computer Science and Information Systems invites applications for two full-time, tenure-track Assistant Professor positions beginning January 2023 or August 2023.

For additional information and to apply, please visit: <https://www.murraystatejobs.com/postings/10295>

New College of Florida

Visiting Professor of Computer Science

New College of Florida invites applications for a Visiting Professor of Computer Science starting in August 2022. We seek an individual to contribute to an innovative and growing computer science program in a liberal arts context. We welcome applications in all specialties. The teaching load is two classes per semester, plus supervision of tutorials, independent study projects and senior theses. Review of completed applications will begin immediately and continue until the position is filled.

To apply click on the link:
<https://ncf.simplehire.com/postings/545>

New College of Florida is an Equal Opportunity Employer.



Specialist Professor, Computer Science

Monmouth University is seeking applications for a Specialist Professor in Computer Science.

This non-tenure track position is for the 2022-2023 academic year and is a two year appointment with the possibility of subsequent multi-year reappointments.

Applications received by June 30, 2022 will receive fullest consideration. This search will remain open until filled.

Exceptional candidates in all areas of computer science are encouraged to apply.

Areas of particular interest include, but are not limited to computer networks, professionalism and ethics for scientists and engineers, and programming in a variety of programming languages, especially Python, Java, C++.

The successful applicants will teach 12 credits per semester of undergraduate and/or graduate courses; actively mentor and advise students; pursue high schools outreach; participate in program accreditation and assessment; and serve on committees at the department, school and university levels.

Monmouth University's Department of Computer Science and Software Engineering offers undergraduate degrees in Computer Science and Software Engineering (two undergraduate programs are ABET-accredited), and Master of Science degrees in Computer Science, Software Engineering, Information Systems, and Data Science.

To Apply, Please Visit: <https://apptrkr.com/3175176>



Open Rank Associate/Assistant Professor Computer Science, Gaming, and Graphics

The School of Informatics Computing and Cyber Systems at Northern Arizona University seeks a Tenure Track faculty member in the discipline of Computer Science, with specialization in Game Development, Computer Graphics, Visualization, or related areas. This faculty member will teach undergraduate and graduate courses in core computer science and software engineering topics along with special topics in their area of research expertise, will mentor MS and PhD students, and should demonstrate a commitment to Diversity, Equity, Inclusion and Justice (DEIJ) through their research and scholastic activities.

To Apply: <https://aptrkr.com/3120388>



PennState

College of IST Open-Rank Teaching Faculty

The College of Information Sciences and Technology (IST) at The Pennsylvania State University invites applications for multiple, Open-Rank Teaching Faculty positions to begin as soon as Fall 2022. These are non-tenure-line, multi-year appointments with an excellent possibility of renewal.

The primary responsibility will be teaching undergraduate courses including residential, online, and hybrid courses. As appropriate, qualified faculty may also teach graduate courses. Successful candidates should be prepared to teach relevant introductory and advanced undergraduate courses in relevant areas.

Applicants must have a master's or terminal degree in a related field including but not limited to informatics, information science, information systems, computer science, mathematics, artificial intelligence, cybersecurity, data science, or human computer interaction by appointment date and a commitment to teaching learners at all levels and from all backgrounds. Successful candidates will be prepared to teach courses in applicable areas. Candidates will be considered for a teaching faculty rank commensurate with their education and experience in accordance with AC21.

The College of IST is strongly committed to a diverse community and to providing a welcoming and inclusive environment for faculty, staff and students of all races, genders, and backgrounds. The College of IST is committed to making good faith efforts to recruit, hire, retain, and promote qualified individuals from underrepresented minority groups including women, persons of color, diverse gender identities, individuals with disabilities, and veterans. We invite applicants to address their engagement in or commitment to inclusion, equity, and diversity issues as they relate to broadening participation in the disciplines represented in the college as well as aligning with the mission of the College of IST in a separate statement.

All application materials should be uploaded at the same time at the time of application. Please review the full advertisement, including relevant areas and courses, as well as instructions on materials to include with your application at :

Apply online at: <https://aptrkr.com/3075806>

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

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

Rutgers University

DIMACS Center

DIMACS, the Center for Discrete Mathematics and Theoretical Computer Science, invites applications for postdoctoral associate positions for 2023-25. Applicants should be recent PhDs with interest in DIMACS areas, including theoretical computer science, discrete mathematics, statistics, operations research, data science, AI, machine learning, and their applications.

Application review begins December 1, 2022.

See <https://jobs.rutgers.edu/postings/166066>.

DIMACS is an EO/AA employer.

Saint Louis University

Engineering Research Scientist

The Department of Computer Science at Saint Louis University in collaboration with the Shakoor Laboratory at the Donald Danforth Plant Science Center (St. Louis, Missouri). is seeking a highly motivated Engineering Research Scientist to support the goals of multiple NSF-funded Cyber-Physical Systems (CPS).

The Shakoor Laboratory at the Donald Danforth Plant Science Center (St. Louis, Missouri) develops and uses integrated digital agriculture systems to study the effects of phenotype, genotype, and environment on crop productivity. Leading edge tools, methods, and technologies are being utilized to understand and optimize the capacity of Sorghum bicolor to capture

carbon dioxide from the atmosphere and store it in its roots, shoots and leaves.

Responsibilities:

- Develop a backend platform for agricultural IoT systems.
- Support engineering activities including design, testing, fabrication, assembly and validation of prototype sensors and mechatronic systems.
- Design and implement machine learning systems for automated agricultural applications.
- Participate in general lab research activities as needed, including plant care, sample preparation and greenhouse/controlled environment experiments.

To apply, visit:

<https://www.paycomonline.net/v4/ats/web.php/jobs/ViewJobDetails?job=45084&clientkey=0386834D209CDIEA462A147F53A126FF>

Salisbury University

Assistant Professor in Computer Science

The Department of Computer Science in Henson School of Science and Technology at Salisbury University is accepting applications for two tenure track positions in the rank of assistant professor in computer science.

Area of Specialization: Candidates with any specialization in Computer Science are welcome to apply.

Primary Job Duties: Teach a broad range of undergraduate computer science courses such as data structures and

algorithm analysis, database, system software, operating systems. Engage in scholarship and professional development such as mentoring undergraduate research, active in publishing and research grant writing. Other duties include student advising, service to the profession, and committee assignments. Normal teaching load is 24 credit hours a year, usually 3 courses per semester. Our class sizes are small with the larger classes usually capped the mid-twenties.

Minimum Qualifications: Ph.D. or ABD in Computer Science or a closely-related field. ABD candidates are required to complete the degree by August 2023 in order to start employment. Experience or demonstrated potential as an effective teacher with strong instructional skills and utilize effective teaching methods to enhance the success of diverse learners.

Preferred Qualifications: Experience in one or more of the following is a plus: computer networking and security, high-performance computing, system software, database, software engineering, artificial intelligence. Strong programming skills in C++, Java, and/or Python.

Applications received by **September 15, 2022** will be given first consideration. The position will remain open until filled. Salary is competitive and commensurate with qualifications and experience. Appointment will be contingent upon verification of eligibility to work in the U.S. and is expected to begin August 15, 2023.

Please visit our website <http://www.salisbury.edu/HR/careers/> to apply

online. See the FAQs of the Online Employment Application System for more information and instructions.

To be considered an applicant, you must apply online and submit the following: 1) a letter of interest; 2) curriculum vitae; 3) teaching philosophy; 4) undergraduate research plans; 5) a statement, up to one page, that demonstrates how you would support a diverse and inclusive undergraduate student population; 6) the names and contact information of at least three professional references. If you have any questions about the position, please contact the Search Committee Chair, Dr. Shuangquan (Peter) Wang at Spwang@salisbury.edu.

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

Diversity and inclusion are core values of Salisbury University. We strive to create

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

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

Southern Illinois University Edwardsville

Computer Science Instructor

Department of Computer Science at SIUE is accepting applications for a non-tenure

track teaching position for the 2022-2023 academic year.

To read the full job announcement and apply, see: <https://www.siue.edu/employment/engineering/FY22-127CS.shtml>

Syracuse University

Maxwell School of Citizenship and Public Affairs

Director, Autonomous Systems Policy Institute (ASPI)

Syracuse University invites applications for the Director of the *Autonomous Systems Policy Institute* (ASPI). Housed within the Maxwell School of Citizenship and Public Affairs and involving faculty from across Syracuse University, ASPI is dedicated to interdisciplinary scholarship and teaching related to the design, governance, and wider societal implications of autonomous systems and artificial intelligence. It aims to critically engage and shape the policy and ethical frameworks that will guide the design and use of these emerging technologies. Across its initiatives, ASPI endeavors to be the leader in uniting interdisciplinary scholarship and teaching related to emerging autonomous technologies, in integrating and thinking across different sociotechnical systems, and in bringing academic insight, community needs, and industry developments into conversation and joint action.

Launched in 2019, ASPI includes 20 core faculty spread across Syracuse University and more than 130 faculty who are involved in some capacity. The Institute supports multiple interdisciplinary

research teams as well as a speaker and research series, and has prioritized developing and maintaining strong relationships with key stakeholders in industry, advocacy, and government domains. Most recently, ASPI has launched initiatives including a graduate-student lab, regular industry roundtables, and an annual public symposium. Future plans include the creation of both undergraduate and graduate academic programs related to autonomous systems and artificial intelligence, innovative executive education programming, and additional faculty hires as part of a cluster hire initiative in *Artificial Intelligence, Autonomous Systems, and the Human-Technology Frontier*.

The director position in ASPI presents an exceptional opportunity for a visionary and collaborative academic leader with interests at the intersection of emerging autonomous technologies and policy. ASPI is unique among research institutes in its dual focus on the development of autonomous systems across multiple domains (e.g., mobility, healthcare, future of work, AI systems), as well as the need for deep and broad interdisciplinary engagement to understand the social and policy implications of these developments. Harnessing Syracuse University's strengths in public communications, management, design, computer science, and policy, ASPI offers its next director an ideal platform for establishing Syracuse University as the place for interdisciplinary, socially relevant research and teaching on autonomous systems and artificial intelligence.

For ASPI's director, we seek a senior scholar with a stellar research record related to autonomous systems and/or artificial intelligence and established experience in interdisciplinary engagement, program building, and translational work between and among academia, government, advocacy, and industry domains. Preference will be given to candidates who emphasize and demonstrate understanding of how the design, policy, and societal impacts of autonomous systems and artificial intelligence – ASPI's core focus – can be brought together in both scholarship and teaching. A record of extramural grant funding from a range of organizations is expected.

Candidates must have a Ph.D. and demonstrate expertise in policy, governance, and the societal implications of technology through their scholarship, leadership, and teaching. The successful candidate must meet the requirements of being hired as a full professor with tenure. The tenure home for the person hired will be determined in conversation with the candidate.

To apply for the position, candidates must complete an online faculty application (available at <https://www.sujobopps.com/postings/92261>) and submit a curriculum vitae and letter of interest. The search committee will begin reviewing applications on Sept. 15th. We will continue to consider applications until the position is filled.

Syracuse University is an Equal Opportunity Employer. Women, minorities, and individuals with disabilities are encouraged to apply. Successful candidates must be committed to working with diverse student and community populations.

Texas A&M University

Texas A&M Institute of Data Science

Research Positions in Data Science

The Texas A&M Institute of Data Science seeks three researchers to join its multidisciplinary team: a Postdoctoral Research Associate in Data Science for Social Justice (https://tamus.wd1.myworkdayjobs.com/TAMU_External/job/College-Station-TAMU/Postdoctoral-Research-Associate--Data-Justice-Lab_R-043568); a Research Engineer in Data Science for Radio Infrastructure (https://tamus.wd1.myworkdayjobs.com/TEES_External/job/College-Station-TEES/Research-Engineer-III_R-047418); and a Research Engineer in Data Science for Agricultural Engineering (https://tamus.wd1.myworkdayjobs.com/TEES_External/job/College-Station-TEES/Research-Engineer-III_R-043809).

University of California, San Diego

Educational Research/Teaching Postdoc

The University of California, San Diego Computer Science and Engineering Department seeks applications for a “researcher-teacher” Postdoctoral Scholar position with an emphasis on teaching and educational research. We seek candidates who are interested in obtaining a faculty position that values teaching as well as education scholarship. The goals for this postdoctoral position are for the scholar to: **(1) build their teaching portfolio in large classes**, giving them the teaching experience that will make them competitive for a teaching

faculty position, **(2) develop pedagogical skills and pedagogical content knowledge** required of an exceptional educator, **(3) gain independence as an education researcher**, and **(4) learn to navigate the politics and structures of being a teaching faculty member at a research-focused university**.

Responsibilities:

The postdoctoral scholar will teach three quarter-long courses over a single academic year (Fall, Winter and Spring quarters). The timing and course assignments will be determined in consultation with the candidate taking into consideration the department's needs for the 2022-2023 academic year and the candidate's interests and background.

The postdoctoral scholar will also do research on the NSF-funded project “Equity of Access to Computer Science: Factors Impacting the Characteristics and Success of Undergraduate CS Majors,” a data-driven project to examine CS undergraduate student pathways and barriers across four colleges and universities in Southern California. The scholar will help lead quantitative modeling of students' educational trajectories and qualitative focus-group-based research, under the guidance and training of the PIs on the project where appropriate.

Required qualifications:

Applicants must have an expectation of completing a PhD in computer science (including CS education) or a related area by September 1, 2022. Applicants must have prior teaching experience as a TA or lead instructor. Applicants must have experience

with quantitative analysis or modeling, or qualitative research with human subjects or both. Education research experience is preferred, but not required.

Terms:

The initial appointment is for a one-year term from September 2022-August 2023. The annual salary will be \$61,000, though may be higher based on prior experience.

Timeline:

We encourage candidates to send applications as soon as possible. Review will continue until the position is filled.

To apply, please email the following materials to Christine Alvarado (cjalvarado@eng.ucsd.edu) with the subject line “CS Ed Postdoc Application”:

- Cover letter
- CV
- Research Statement
- Teaching Statement
- Names and emails of three references who are willing to be contacted. You do not need to send letters.

If you have any questions, please contact Christine Alvarado at cjalvarado@eng.ucsd.edu.

University of Chicago

Postdoc and Staff Positions in Scalable Computer Architecture, Graph Processing

We are recruiting multiple talented, ambitious postdoctoral scholars with the energy and creativity to pioneer a

new generation of microprocessor and large-scale system architectures and co-designed system software.

The opportunity is to rethink computer architectures---traditionally optimized for compute-intensive dense linear algebra (e.g. LINPACK)--- for new challenges in large-scale, real-time graph analytics (see <https://www.iarpa.gov/research-programs/agile>). Radical changes are needed to overcome current architectures (1) inability to generate high degrees of memory parallelism and (2) inflexible layers of caches whose automated data movement poorly matches the needs of sparse streaming computation.

The postdocs would join the University of Chicago’s UpDown project, whose ambition is to complete a full-scale system design – and build it. The UpDown computer rethinks data movement, providing efficient, flexible mechanisms that enable applications to excel at memory-operation intensive graph application processing. With programmable mechanisms, applications and system software can expose new performance levels of memory parallelism, encoding optimization, data movement, and event-driven execution to provide breakthrough performance. Co-design opportunities include enabling rich application-control and hardware efficiency.

These Postdoctoral scholar positions provide the opportunity to work with leading computer scientists in the University of Chicago, Purdue University, industry, and a broad research community spanning computer architecture, system software, and graph applications.

Desired qualifications:

- exceptional intelligence, creativity, and drive to make high impact contributions
- strong research expertise in the interaction of architecture and system software
- experience with C/C++ development for Linux multicore systems
- experience with workload characterization and modeling
- intellectual curiosity to solve fundamental academic research problems
- strong written and oral communication skills
- experience with control systems and/or machine learning is a plus

A recent PhD (or other doctoral degree) in Computer Science or related discipline is required. This position is available as early as Summer 2022; additional opportunities may arise throughout the year. This position will be located at the University of Chicago. For more information, contact Professors Andrew Chien (achien@cs.uchicago.edu) and Henry Hoffmann (hankhoffmann@cs.uchicago.edu), 5730 S Ellis Ave, Chicago, IL 60637.

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

University of Chicago

Full-time Teaching Positions

The Department of Computer Science at the University of Chicago is seeking qualified applicants for all ranks of the Clinical appointment (Assistant Clinical

Professor of Computer Science, Associate Clinical Professor of Computer Science, and Clinical Professor of Computer Science). The “Clinical” appointment is a full-time teaching-track position used in professionally-oriented programs at the University of Chicago. It is unrelated to clinics in a medical sense.

We are specifically seeking applicants to teach Systems classes (Networks, Operating Systems, etc.) in the Masters Program in Computer Science (MPCS, <https://masters.cs.uchicago.edu>), or to teach Python Programming and/or Databases classes in the MPCS and in the MS in Computational Analysis and Public Policy (CAPP, <https://capp.uchicago.edu>). These positions also include the opportunity to teach additional classes in the applicant’s field of expertise.

This full-time, benefits-eligible appointment is for an initial term of three to five-years, with possibility of renewal. This is a teaching position with no research responsibilities, and a teaching load of six courses across three academic quarters of the year (Autumn, Winter, Spring). The Masters Program in Computer Science (MPCS) offers a comprehensive and professionally-oriented computer science education that combines the foundations of computer science with the applied and in-demand skills necessary for careers in technology, and is targeted for students interested in tech careers in Software Engineering, Data Analytics, Product Management and Application Development.

MSCAPP is a professionally-oriented program offered jointly by the Department

of Computer Science and the Harris School of Public Policy, and is designed for students seeking to leverage the power of technology and data science within the field of public policy. Through a highly interdisciplinary curriculum and opportunities for applied experience, students build expertise across the realms of computer science, data science, statistics, and public policy analysis, and ultimately embark on a career using modern tools to make a positive social impact within the public and non-profit sector.

Courses in both programs are held for nine weeks during each academic quarter, with the tenth week for a final project or exam. Instruction is expected to be primarily in person, with some limited opportunities to offer remote or hybrid courses. For each clinical position/rank, applicants should have one of the following: a doctorate in Computer Science or a related field at the time of appointment; a masters degree and 4 years of relevant professional experience; or a bachelor’s degree and 8 years of relevant professional experience. Work experience in a computing-related industry is preferred.

In addition, each rank has the following requirements:

For the Assistant Clinical Professor of Computer Science position we require teaching experience in Computer Science or a related field at the undergraduate or graduate level, as either an instructor of record or a teaching assistant.

For the Associate Clinical Professor of Computer Science position, candidates

must have been the instructor of record in at least 1800 units of undergraduate and/or graduate course offerings in Computer Science or a related field over the span of at least six calendar years. 1800 units is typically equivalent to 18 quarter-long course offerings, or 12 semester-long course offerings. See <https://registrar.uchicago.edu/records/transcripts/transcript-key/credit-conversion-chart-equivalencies/> for equivalencies between teaching units and semester/quarter hours.

For the Clinical Professor of Computer Science position, candidates must have been the instructor of record in at least 3000 units of undergraduate and/or graduate course offerings in Computer Science or a related field over the span of at least 10 calendar years; 3000 units is typically equivalent to 30 quarter-long course offerings, or 20 semester-long course offerings. See <https://registrar.uchicago.edu/records/transcripts/transcript-key/credit-conversion-chart-equivalencies/> for equivalencies between teaching units and semester/quarter hours.

Applications must be submitted online through the University of Chicago’s Interfolio website:

Assistant Clinical Professor,
MPCS (Systems):
<https://apply.interfolio.com/105497>

Associate Clinical Professor,
MPCS (Systems):
<https://apply.interfolio.com/105499>

Clinical Professor, MPCS (Systems):
<https://apply.interfolio.com/105502>

Assistant Clinical Professor,
MPCS/CAPP (Programming/Databases):
<http://apply.interfolio.com/107475>

Associate Clinical Professor,
MPCS/CAPP (Programming/Databases):
<http://apply.interfolio.com/107478>

Clinical Professor, MPCS/CAPP
(Programming/Databases):
<http://apply.interfolio.com/107480>

Review of applications for the MPCS
(Systems) position has already begun, but
will continue until the position is filled.
Review of applications for the MPCS/CAPP
(Programming/Databases) position will
begin on July 1, 2022 and will continue
until the position is filled.

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

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

Notice of Nondiscrimination. (<https://www.uchicago.edu/about/non-discrimination-statement/>). Job seekers
in need of a reasonable accommodation
to complete the application process
should call 773-702-1032 or email
equalopportunity@uchicago.edu with
their request.

University of Florida

AI in Society

Department of Computer & Information Science & Engineering

Herbert Wertheim College of Engineering

The Herbert Wertheim College of
Engineering at the University of Florida
invites applications for a tenured/
tenure-track faculty position at the rank
of Associate or Full Professor for an
Endowed Professorship in the Department
of Computer & Information Science &
Engineering (CISE).

Specific area recruiting for/brief
description of duties. This endowed
professorship is to support a faculty
leader in research on ethical AI
systems, including the development of
AI methods and their applications in
CISE-related fields. The recipient will
conduct research at the intersection of
technology and society with the specific
goal of recognizing and understanding
potential harms when AI algorithms are
embedded in societal applications and the
mechanisms can be used for monitoring
and control. The recipient may also
conduct research on how AI changes the

nature of human-technology interaction
over time.

Major research thrust areas include but
not limited to:

(1) Algorithmic fairness and development
of socially conscious/aware algorithms:
There is an intrinsic trade-off between
computational accuracy and algorithm
fairness (accounting for societal context)
in developing predictive tools. This
professorship will address contextual
factors in algorithm prototyping and
development. A burgeoning area
of research interest is in "fairness
gerrymandering" or the case in which an
algorithm appears fair across individual
groups but a subgroup characteristic
leads to a heavy bias against one or more
particular groups (e.g., uniform marketing
of services across groups but with some
groups being incapable of using services).

(2) Algorithmic Interpretability: Many
machine learning tools are labeled as
"black box algorithms" due to a lack of
causal explanation of how inputs are
transformed to outputs. There is a need
for further understanding of causes and
effects of changes within a model to allow
for transfer of machine learning into the
broader human knowledge base. Algorithm
transparency is also instrumental in
guarding against embedded bias.

(3) Study of legal, ethical, and social
consequences of AI-driven technology and
decision making.

The professorship may also support
faculty research related to ethics beyond
AI, including data handling. Study of data

privacy, anonymization, and differential privacy (sharing information about a dataset without revealing personal information of individuals) are also considered within the scope of this appointment.

Minimum Qualifications: PhD in Computer Science, or related field is required.

The preferred candidate will have skills in, AI, Machine Learning, Ethics, Bias

The search committee will begin reviewing applications immediately and will continue to receive applications until the position is filled.

All applications must be submitted through UFCareers at: <https://explore.jobs.ufl.edu/en-us/job/521927/associate-or-full-professor>. (Please see Job No. 521927).

Complete applications must include the following files in PDF format: (1) cover letter (summary, introduction related to hiring emphasis areas); (2) a curriculum vitae; and (3) the names, addresses, phone numbers, and email addresses of no less than three and up to five references. Additionally, please combine items 4-6 in one PDF and upload to the "other documents" selection in the application. (4) Diversity Statement describing the applicant's experience in enhancing diversity, equity and including through research, teaching, or services, and vision for promoting a more inclusive experience at the University of Florida. (5) Research program vision statement. (6) Teaching statement. The anticipated start for the position is Spring 2023 with some flexibility for a later start based on individual needs. For additional questions, contact Dr. Prabhat Mishra at prabhat@ufl.edu.

The University of Florida is the flagship campus of the State of Florida university system and is ranked as the #5 best public US university according to US News and World Report. UF recently announced a \$70 million artificial intelligence partnership with NVIDIA to create an AI-centric data center that houses the world's fastest AI supercomputer in higher education. For more information about the college, please visit <http://eng.ufl.edu>.

Final candidate will be required to provide an official transcript to the hiring department upon hire. A transcript will not be considered "official" if a designation of "Issued to Student" is visible. Degrees earned from an educational institution outside of the United States are required to be evaluated by a professional credentialing service provider approved by National Association of Credential Evaluation Services (NACES).

The University of Florida is an equal opportunity institution dedicated to building a broadly diverse and inclusive faculty and staff. The University of Florida is An Equal Employment Opportunity Institution. If an accommodation due to a disability is needed to apply for this position, please call 352/392-2477 or the Florida Relay System at 800/955-8771 (TDD). Hiring is contingent upon eligibility to work in the US. Searches are conducted in accordance with Florida's Sunshine Law.

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 Massachusetts Dartmouth

Full-Time Lecturer Position

The Department of Computer and Information Science (CIS) in the College of Engineering at the University of Massachusetts Dartmouth invites applications for a Full-Time Lecturer position in the area of software engineering or related field in computer science starting in September 2022. Primary responsibilities for this position include undergraduate and graduate instruction with both classroom and online teaching modes and student advising.

The University of Massachusetts Dartmouth is located in the beautiful ocean side community of Dartmouth, about an hour south of Boston, half-hour east of Providence, and half-hour west of Cape Cod. It offers a world-class education to more than 9,300 undergraduate and graduate students each year in over 40 undergraduate and 23 graduate programs.

Candidates must have earned a Master's degree in computer science or closely-related field at the time of employment, have experience with teaching at the college level and be authorized to work

in the US on a full-time basis. Strong candidates will have a Ph.D. degree in computer science or closely-related field, documented success in teaching at the college level, experience with both classroom and online modes of instruction, and research and development experience in the area of software engineering or related fields. We are especially interested in receiving qualified applications from minorities, women, veterans and persons with disabilities.

Further information and application instructions are available at <http://www.umassd.edu/hr/employmentopportunities/>.

University of Memphis

Senior Research Software Developer

The Senior Research Software Developer serves as the senior software developer on innovative research projects in an institute focusing on the areas of language, learning, and artificial intelligence. The senior software developer will supervise and train junior software developers.

Please complete an on-line application at <https://workforum.memphis.edu/postings/32049>.

For any questions regarding this position, please contact the director of the Institute for Intelligent Systems, Dr. Alistair Windsor, awindsor@memphis.edu.

University of Missouri-Columbia

Postdoctoral Research Scholar

The Center for Cyber Education, Research and Infrastructure (Mizzou CERI) and the Department of Electrical Engineering and Computer Science (EECS) at the University of Missouri-Columbia has an opening for a postdoctoral research scholar.

Please see the following for more information and to apply to the position

<https://tinyurl.com/5e3sjtae>

Please contact Dr. Prasad Calyam (calyamp@missouri.edu) with any questions.

University of Richmond

Computer Science: Assistant, Associate, or Full Professor in Computer Science'

The University of Richmond invites applications for Assistant, Associate or Full Professor in Computer Science to begin August 2023.

For additional information, and to apply, please visit: <https://richmond.csod.com/ats/careersite/JobDetails.aspx?site=1&id=2621>

University of South Florida

Assistant Professor of Instruction Computer Science and Engineering

The Department of Computer Science and Engineering is seeking to hire multiple instructional faculty at the level of Assistant Professor of Instruction who

can teach a broad range of core and elective courses at the undergraduate and graduate levels in computer science, computer engineering, information technology, and cybersecurity. Special emphasis is on candidates who specialize in cybersecurity and have strong capability in teaching hands-on skills in cybersecurity. Interest or past experience in advising student organizations for cybersecurity competitions is preferred. Candidates must have completed a PhD in computer science, computer engineering, cybersecurity, information technology, or a related engineering area from an accredited institution. Preference will be given to candidates with industry experience and teaching experience in an ABET accredited program. We expect successful candidates to contribute to our diversity and inclusion efforts. This recruitment is for a non-tenure earning full-time 12-month position. Successful candidates are expected to start in fall 2022 or spring 2023.

Computer Science and Engineering has 28 tenure-track/tenured faculty members, 12 instructional faculty members, 3 visiting assistant professors, and 6 staff members/advisors, and offers BS, MS, and PhD degrees, serving over 2200 undergraduates, about 120 masters, and about 100 PhD students. USF CSE has a strong working relationship with CyberFlorida. CSE ranks include twelve NSF CAREER awardees, one National Academy of Inventors (NAI) Fellow, three IEEE Fellows, three IAPR Fellows, three AAAS Fellows, and three AIMBE Fellows. USF CSE is in the top 10% of Computer Science departments in US public universities. This ranking is according

to most recent Academic Analytics data based on Scholarly Research Index AAD2019 using default weights for grants, articles, conferences, awards, and citations. The Computer Engineering graduate program was ranked #52 among US public universities by US News and World Report (2021). USF CSE faculty members have 38 issued patents, own 6 copyrights, and have executed 13 license/option agreements between FY2016-FY2020.

Established in 1964 and currently led by Dean Robert H. Bishop, the College of Engineering at the University of South Florida is ranked #61 among public institutions (#98 overall) by U.S. News & World Report's 2022 engineering graduate school rankings. The college serves more than 6,000 students, offering eleven bachelor's programs, seven ABET-accredited, as well as 12 master's and eight doctoral degrees. The College is actively engaged in local and global research activities with \$34.1million in research expenditures for the fiscal year 2019-2020. The College has 12 major research centers and institutes and is actively engaged in local and global research activities focused on sustainability, biomedical engineering, computing technology and transportation.

The University of South Florida, a high-impact global research university dedicated to student success, generates an annual economic impact of more than \$6 billion. Over the past 10 years, no other public university in the country has risen faster in U.S. News and World Report's national university rankings than USF. Serving more than 50,000 students on

campuses in Tampa, St. Petersburg and Sarasota-Manatee, USF is designated as a Preeminent State Research University by the Florida Board of Governors, placing it in the most elite category among the state's 12 public universities. USF has earned widespread national recognition for its success graduating under-represented minority and limited-income students at rates equal to or higher than white and higher income students. USF is a member of the American Athletic Conference. Learn more at www.usf.edu.

An application package should include a cover letter, curriculum vitae, statement describing teaching experience and goals, and the names and contact information of at least three references (one of which must be the current immediate supervisor of the applicant). Applicants must electronically submit the application packet as one PDF file to: <https://www.usf.edu/work-at-usf/careers>.

For consideration, please apply to Job ID #30276.

Applications will be considered starting immediately.

The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Institution. Women and minorities are strongly encouraged to apply. Dual career couples with questions about opportunities are encouraged to contact the Department chair. To request disability accommodations in the application and interview process, please notify Khoa Dinh, the EOL Coordinator at (813) 974-9272 at least five working days in advance.

University of Tennessee Knoxville

Postdoctoral Research Associate

The Global Computing Lab led by Michela Tauffer (<https://globalcomputing.group/>) at the University of Tennessee Knoxville has one open Postdoctoral Researcher position for immediate start in Fall 2022 or Spring 2023. Strong expertise in hands-on system software, parallel and distributed computing is required. This position is for an NSF project on high-performance computing and scientific applications.

Please apply here: <https://bit.ly/3uIP2n0>

Please contact Dr. Michela Tauffer (tauffer@utk.edu) with any questions.

University of Virginia

Teaching Faculty Positions

The Department of Computer Science at the University of Virginia seeks General Faculty applications for one or more non-tenure-track open rank (Lecturer, Assistant, Associate or Professor) teaching-faculty positions to begin in August 2022 and beyond. We seek applicants who share our interest and enthusiasm for excellence in computing science education to join our department of 58 faculty, including 17 teaching faculty. We are especially seeking faculty who can teach courses in computer organization, systems, theory, databases, cloud computing, mobile computing, and AI, but are hiring in all areas of CS. Rank is dependent upon experience and qualifications.

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.

Candidates must, by the time the position starts, have a Master, PhD, or equivalent experience in computer science or a related discipline. They must have an interest in and ability to teach a broad set of courses in our undergraduate curriculum. Course load will be two to three sections per semester consisting of a mix of upper- and lower-division courses. Graduate-level teaching will possibly be included. Faculty will have service responsibilities, and scholarship in computing or in CS education is expected for promotion. The department strongly values scholarship activities by General Faculty that have potential to advance computing education.

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

The University of Virginia is annually ranked as one of the premier public institutions in the United States. The University is located in Charlottesville, VA 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>.

Apply online at <https://uva.wdl.myworkdayjobs.com/> and attach the following required documents to your application:

- A cover letter
- Curriculum vitae
- Statement of teaching philosophy
- Statement of inclusive practices that create climates in which all stakeholders can reach their maximum potential
- Contact information for three references

Please note that multiple documents can be uploaded in the box.

Review of completed applications will begin August 7, 2022. The position will remain open until filled.

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

For questions about the position, please contact Dr. Jim Cohoon, Associate Professor, at jpc@virginia.edu.

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

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

minoritized groups, veterans, and individuals with disabilities. We also welcome others who would bring additional dimensions of diversity to the university's research and teaching mission. We believe diversity is excellence, expressing itself through every person's perspectives and lived experiences. The University of Virginia is annually ranked as one of the premier public institutions in the United States. More information about town, the school, faculty benefits and other topics can be found at <https://hr.virginia.edu/careers-uva/why-uva>.

COVID Vaccination Requirement and Guidelines

Please visit the UVA COVID-19 Job Requirements and Guidelines webpage prior to applying for current information regarding vaccination requirements and guidelines for employment at UVA.

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.



Professional Opportunities



ASSISTANT PROFESSOR University of Wisconsin - Milwaukee

Position Number: 02314136

Introduction (Description of School/College/Dept/Program):

UWM is an R1 doctoral/very high research activity university and Wisconsin's premier public urban institution, offering a comprehensive liberal arts, sciences and professional education at the undergraduate and graduate level to over 20,000 students. The institution strongly supports enhancing diversity. It is a founding partner of the Moon Shot for Equity initiative.

Milwaukee is the seventh most affordable metropolitan market in the country and offers a vibrant quality of life in a globally competitive region. The city takes full advantage of its Lake Michigan location. The Southeast Wisconsin region is home to 2,360 tech companies and 14 Fortune 1,000 headquarters and is the third-ranked manufacturing center in the United States.

Job Summary:

<https://uwm.edu/engineering/>, University of Wisconsin-Milwaukee (UWM), invites applications for a tenure-track Assistant Professor position in Computer Science (CS). The successful candidate will conduct independent research and seek external funding, collaborate with CEAS faculty with research and grant development, teach courses in CS, assist with CS curricular development, and mentor graduate students in doctoral dissertation research or masters level projects. Active areas of research in Computer Science at UWM include Computer Vision, Graphics, Machine Learning, Natural Language Processing, Planning, Programming Languages, Proof Assistants, and Theoretical Computer Science. The Computer Science bachelor's and master's programs are the largest in CEAS. Enrollment continues to grow, and hiring of additional faculty is anticipated. The department offers a PhD degree concentration in Computer Science and an interdisciplinary PhD in Biomedical and Health Informatics.

Inter-disciplinary collaborations are strongly encouraged. Opportunities for collaboration exist in the College of Engineering & Applied Science and through the Connected Systems Institute (CSI), the Data Science Institute (DSI) and the Lubar Entrepreneurship Center (LEC), and other industry-sponsored research programs on campus. Collaborative research in Advanced Manufacturing, Biomedical Science or Applications, Embedded Systems, Sustainable Energy Systems, and Water Technology is ongoing.

Minimum Qualifications:

- Doctoral degree in computer science, or a closely related STEM discipline, before beginning appointment;
- Ability to teach CS courses at both the lower and upper division level;
- Demonstrated research potential.

Preferred Qualifications:

- Teaching experience.
- Expertise in one or more of the following areas: Computer Science Education, Cybersecurity, Distributed Systems, Graphics, Human-Computer Interaction, Networks, or Robotics.
- Ability to connect to and support one or more of CEAS's strategic research thrust areas in Energy, Water, Biomedical, Advanced manufacturing, and Transportation.

Application Instructions:

This is a continuous recruitment with an initial review date of September 12, 2022. Candidates applying after the initial date of review may not be reviewed. For guaranteed consideration, please apply by September 11, 2022. Interested applicants are required to apply online and provide:

- 1) A letter describing your interest in and qualifications for the position
- 2) Detailed curriculum vitae
- 3) Teaching Statement
- 4) Research Statement
- 5) A minimum of three references with contact information (names, addresses (including e-mail), and telephone numbers).

It is anticipated that the successful candidate would start on or before January 2, 2023.

In instances where the Search and Screen Committee is unable to ascertain from the candidates' application materials whether they meet any of the qualifications, they may be evaluated as not meeting such qualifications. Apply electronically <https://jobs.uwm.edu/postings/34805> following the instructions above.

Application Notes:

For this position, applicants are required to apply online. UWM will not consider paper, emailed or faxed applications. Additionally, applicants must complete all required fields and attach any required documents. The process is complete when the message "Your application has been submitted" is displayed and you receive a confirmation number.

Legal Notices:

AA/EO Statement. UWM is an AA/EO employer: All applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, sexual orientation, gender identity/expression, disability, or protected veteran status.

Reasonable Accommodations:

UWM provides reasonable accommodations to qualified individuals with disabilities who are employees or applicants for employment. Employment opportunities will not be denied because of the need to make reasonable accommodations for a qualified individual with a disability. If you need assistance or accommodation in applying because of a disability, please contact uwm-jobs@uwm.edu or 414-229-4463. This job announcement and other material on this site will be made available in alternate formats upon request to an individual with a disability.

Employment Authorization:

In compliance with federal law, all persons at the time of their start date will be required to verify identity and eligibility to work in the United States and to complete the required employment eligibility verification form upon hire.

To apply, please visit: <https://aptrkr.com/3218386>

Washington State University

Scholarly Teaching Faculty Positions in Computer Science

The School of Electrical Engineering and Computer Science (EECS) at Washington State University (WSU) invites applications for multiple full-time career track teaching faculty positions in Computer Science. The job duties of successful candidates include (but not limited to) teaching undergraduate courses in computer science (including lower level programming courses, introductory data structures and systems courses, and junior and senior level electives). Candidates will be required to have a Master's (PhD preferred) in Computer Science or a related discipline by August 15, 2022.

Additional criteria and instructions can be found at:
<https://tinyurl.com/34mm7f3b>.

Application review begins May 18, 2022.

Wellesley College

Instructor in Computer Science Laboratory

The Computer Science Department at Wellesley College invites applications for a full-time Instructor in Computer Science Laboratory, starting in the Fall of 2022.

Here is the posting on the HR site:
https://wd1.myworkdaysite.com/en-US/recruiting/wellesley/wellesley-faculty/job/Instructor-in-Computer-Science-Laboratory_R0002258

Wellesley College

Visiting Lecturer

The Computer Science Department at Wellesley College invites applications for a Visiting Lecturer for a one-year term starting in Fall 2022, with the possibility of renewal.

Here is the posting on the HR site:
https://wd1.myworkdaysite.com/en-US/recruiting/wellesley/wellesley-faculty/details/Visiting-Lecturer-in-Computer-Science_R0002257

Yale School of Management

Assistant Professor of Marketing (Quantitative)

The Yale School of Management seeks applicants in the field of Quantitative Marketing for a tenure-track faculty position at the rank of Assistant Professor.

Applicants must have a Ph.D. or equivalent degree (or will earn the degree within one semester from the start of the appointment) in Quantitative Marketing or a related field such as Computer Science, Statistics, Economics or Engineering. We are seeking applications from graduating students, post-docs and others who show exceptional promise.

This is a full-time, tenure-track position located at the Yale School of Management in New Haven, Connecticut.

To apply, visit
<https://apply.interfolio.com/107176>