



CRN At-A-Glance

Expanding the Pipeline: The Second Annual CRA Grad Cohort for URMD Supports a Diverse Computing Research Community

On March 22-23, CRA hosted the second annual Graduate Cohort for Underrepresented Minorities and Persons with Disabilities (URMD Grad Cohort) in picturesque Waikoloa Village, Hawaii. The location provided beautiful scenery as students spent two days learning how to succeed in graduate school and networked with a diverse group of peers and senior researchers.

See page 2 for full article.

CRA-W Grace Hopper Research Scholars Report Stronger Mentorship Support After Attending the 2018 Grace Hopper Celebration Through the Program

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Expanding the Pipeline: The Second Annual CRA Grad Cohort for URMD Supports a Diverse Computing Research Community



By Shar Steed, CRA Communications Specialist

On March 22-23, CRA hosted the second annual **Graduate Cohort for Underrepresented Minorities and Persons with Disabilities** (URMD Grad Cohort) in picturesque Waikoloa Village, Hawaii. The location provided beautiful scenery as students spent two days learning how to succeed in graduate school and networked with a diverse group of peers and senior researchers.

The CRA URMD Grad Cohort Workshop aims to increase the ranks of senior underrepresented minorities and persons with disabilities in computing research by building and mentoring nationwide communities through their graduate studies.

More than 150 graduate students in computer science from 78 institutions in the U.S. and Canada attended the event, which is nearly double the number of attendees in 2018. Much of this growth is due to increased interest and engagement from sponsors. The 2019 CRA URMD Graduate Cohort Workshop was made possible through generous contributions by the Computing Research Association, the National Science Foundation, Facebook, Google, Microsoft Research, the U.S. Department of Energy, AccessComputing, and Intel.

The workshop featured a mix of formal presentations and informal discussions and social events. In the first plenary session, "Finding Your Way: Overcoming Cultural Barriers," panelists Monica Anderson, Raheem Beyah, and Raja Kushalnagar discussed their personal journeys and how they made decisions throughout their careers. Anderson encouraged the audience not to shy away from opportunities and noted, "Experiences add to your foundation and make your perspective unique." Beyah stressed the value of mentors, and Kushalnagar emphasized the importance of developing a support system.

Speakers and participants shared their stories in an engaging plenary session called "Strategies for Human-Human Interaction." In this session, which was hosted by



Expanding the Pipeline *(continued)*

panelists Dorian Arnold, Karina Edmonds, Richard Ladner, and Melanie Moses, participants learned from the panel's collective insights, listened to other participant's experiences, and shared relationship management strategies.

Fifty-seven attendees submitted abstracts for the poster session held on Friday afternoon, which provided the graduate students with the opportunity to present their research and receive feedback from other participants, speakers, and sponsor representatives.

The Friday evening reception, which was sponsored by Google, featured a luau, and the founding co-chairs of the workshop were presented with a gift for their incredible efforts in developing the Grad Cohort for URMD Workshop.

CRA hosts the URMD Grad Cohort Workshop as part of its mission to facilitate the development of strong, diverse talent in the computing field. CRA believes **computing research needs diverse perspectives** in order to foster innovation. The program has seen some early results of its effectiveness. CRA's Center for Evaluating the Research Pipeline (CERP) evaluated the inaugural 2018 URMD Grad Cohort Workshop and found that compared to before the workshop, participants reported stronger professional skills after attending Grad Cohort URMD. These results were reported in the **September 2018 CERP Infographic** in *Computing Research News*.

This program is based upon work supported by the National Science Foundation under Grant Number (I246649). Any opinions, findings, and conclusions or recommendations expressed do not necessarily reflect the views of the National Science Foundation.



From left to right: Kunle Olukotun, Ayanna Howard, and Lori Clarke, receive Hawaiian wooden paddles from CRA Director of Programs Erik Russell at the event. Mary Lou Soffa (not pictured) is also a founding co-chair of Grad Cohort URMD.

CRA-W Grace Hopper Research Scholars Report Stronger Mentorship Support After Attending the 2018 Grace Hopper Celebration Through the Program



CERP

Computing Research Association
Evaluation

By Heather M. Wright, Associate Director of CERP

To what extent do you have a mentor who...			
	Time 1	Time 2	Significance
helps you improve your computing skills?	2.69	3.35	**
shows compassion for issues you discussed with them?	3.54	3.81	*
shares personal experiences as an alternative perspective?	3.25	3.56	**
explores career options with you?	3.11	3.74	**
encourages you to do the best you can in your coursework?	3.49	3.92	**

Source: Wright, H. M. (2019). *The 2018 CRA-W Grace Hopper Research Scholars Program: Pre/Post analysis and feedback assessment report*. Washington, DC: Computing Research Association.

Responses were given on a five-point scale from strongly disagree (1) to strongly agree (5). Statistically significant differences between means at Time 1 and Time 2 were determined using paired-samples *t*-tests and .05 significance level. * $p \leq 0.05$. ** $p \leq 0.01$.

The [CRA-W Grace Hopper Research Scholars program](#) brings undergraduates to the annual Grace Hopper Celebration to engage them in a unique, research-focused experience at the conference. The program also provides scholars with mentoring, networking opportunities, and advising toward graduate school and research careers in computing.

CERP evaluated the 2018 program using a pre/post methodology, wherein program participants were surveyed prior to the event and then immediately following the conclusion of the Grace Hopper Celebration. Results indicate that program participants reported statistically significant increases in their perceived mentorship support, measured using the five survey items displayed in the graphic. These results support that the program's goals to provide scholars with mentoring during the program are being reached.

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

This material is based upon work supported by the National Science Foundation under grant numbers CNS-I246649 and/or CNS-1836703. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.



Thank you, Data Buddies!

By CERP Staff

CRA and CERP wish to thank the departments who distributed CERP's Data Buddies survey during the fall/winter of 2018. These departments' collective effort enables CERP to provide resources to the computing community through research and evaluation focused on students' experiences in computing degree programs. For instance, CERP publishes [monthly infographics](#) and conducts [research](#) using Data Buddies data.

Special thanks to the 41 **Elite Data Buddies Departments**, who have at least a 20% response rate from their students.

- | | | |
|--|---|---|
| <i>Bethune-Cookman University</i> | <i>Rensselaer Polytechnic Institute*</i> | <i>University of Puget Sound*</i> |
| <i>Boise State University</i> | <i>Simmons University*</i> | <i>University of Texas-Austin*</i> |
| <i>Brown University*</i> | <i>St. Mary's College of Maryland</i> | <i>University of Toronto*</i> |
| <i>Creighton University</i> | <i>Stony Brook University*</i> | <i>University of Virginia*</i> |
| <i>Davidson College</i> | <i>SUNY College-Plattsburgh</i> | <i>University of Washington*</i> |
| <i>Drew University</i> | <i>Texas A&M University*</i> | <i>Washington and Lee University</i> |
| <i>Duke University*</i> | <i>Texas State University*</i> | <i>Washington University-St. Louis*</i> |
| <i>Grinnell College*</i> | <i>Tufts University*</i> | <i>Wayne State University*</i> |
| <i>Harvey Mudd College*</i> | <i>University of British Columbia*</i> | <i>Wellesley College</i> |
| <i>Illinois Wesleyan University</i> | <i>University of Hawaii-Hilo</i> | <i>Western Washington University</i> |
| <i>Kean University*</i> | <i>University of Houston*</i> | <i>Whitman College*</i> |
| <i>Mount Holyoke College*</i> | <i>University of Illinois-Chicago (CS)*</i> | <i>Winston Salem State University</i> |
| <i>New Mexico State University-
Main Campus*</i> | <i>University of Maryland-
College Park (CS)*</i> | <i>Yale University*</i> |
| <i>Pomona College*</i> | <i>University of Nevada-Reno*</i> | |

And a big thank you to the rest of the departments who contributed to CERP's Data Buddies survey.

- | | | |
|--|--------------------------------------|---|
| <i>Arizona State University*</i> | <i>Carnegie Mellon University*</i> | <i>Gallaudet University</i> |
| <i>Augustana College</i> | <i>Columbia University*</i> | <i>George Mason University*</i> |
| <i>Baldwin Wallace University</i> | <i>Connecticut College</i> | <i>Georgia Institute of Technology*</i> |
| <i>Beloit College</i> | <i>Cornell University*</i> | <i>Harvard University*</i> |
| <i>Boston University (Bioinformatics)</i> | <i>Drexel University*</i> | <i>Johns Hopkins University*</i> |
| <i>Boston University
(Computer Science)*</i> | <i>Eastern Washington University</i> | <i>Landmark College</i> |
| <i>California State University-
Long Beach</i> | <i>Farmingdale State College</i> | <i>Miami University-Oxford*</i> |
| | <i>Fisk University</i> | <i>Montana State University*</i> |



Data Buddies (continued)

<i>Morehouse College</i>	<i>University of Central Florida*</i>	<i>University of North Carolina-Charlotte*</i>
<i>New Jersey Institute of Technology*</i>	<i>University of Colorado-Boulder*</i>	<i>University of Northern Iowa</i>
<i>New York University-Polytechnic School of Engineering</i>	<i>University of Delaware*</i>	<i>University of Notre Dame*</i>
<i>North Carolina State University (ECE)*</i>	<i>University of Florida*</i>	<i>University of Pennsylvania*</i>
<i>Northeastern University*</i>	<i>University of Illinois-Chicago (ECE)</i>	<i>University of Pittsburgh (School of Computing and Information)*</i>
<i>Oberlin College</i>	<i>University of Illinois-Springfield</i>	<i>University of Rochester*</i>
<i>Princeton University*</i>	<i>University of Illinois-Urbana Champaign*</i>	<i>University of South Carolina-Columbia*</i>
<i>Purdue University*</i>	<i>University of Maryland-Baltimore County*</i>	<i>University of South Florida-Main Campus*</i>
<i>Radford University</i>	<i>University of Massachusetts-Amherst*</i>	<i>University of Texas-Dallas*</i>
<i>Rochester Institute of Technology*</i>	<i>University of Massachusetts-Lowell*</i>	<i>University of the District of Columbia</i>
<i>Rutgers University-New Brunswick Campus*</i>	<i>University of Michigan-Ann Arbor*</i>	<i>University of Utah*</i>
<i>Smith College</i>	<i>University of Michigan-Flint</i>	<i>Virginia Tech*</i>
<i>The Ohio State University*</i>	<i>University of Minnesota-Twin Cities*</i>	<i>Western Oregon University</i>
<i>Union College*</i>	<i>University of Nebraska-Kearney</i>	<i>Worcester Polytechnic Institute*</i>
<i>University of Alabama*</i>	<i>University of Nebraska-Lincoln*</i>	<i>Youngstown State University</i>
<i>University of California-San Diego*</i>	<i>University of North Carolina-Chapel Hill*</i>	
<i>University of California-Santa Barbara*</i>		

Is your department listed? If not, help the computing community by volunteering your department to become a Data Buddy today! Visit CERP's website to sign up: <http://cra.org/cerp/data-buddies/>.

* Indicates CRA member departments.

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

Data Buddies Survey is supported by the National Science Foundation under grant numbers (CNS-1246649, DUE-1431112, and DUE 1821136). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Code 8.7: Using Computation Science and AI to End Modern Slavery

By CCC Staff

On February 19-20, 2019 the **Computing Community Consortium (CCC)** co-sponsored the **Code 8.7: Using Computation Science and AI to End Modern Slavery** with the **United Nations University Centre for Policy Research**, **The Alan Turing Institute**, **Tech Against Trafficking**, **University of Nottingham Rights Lab**, and **Arizona State University Global Security Initiative**.

Code 8.7 brought together computer science researchers and technologists with policy researchers, law enforcement officials, and activists involved in the fight against human trafficking. Code 8.7 was named after **Target 8.7 of the Sustainable Development Goals**. With Target 8.7, 193 countries agreed to take immediate and



effective measures to end forced labor, modern slavery, and human trafficking by 2030, and the worst forms of child labor by 2025. Code 8.7 is an international collaboration that seeks to effect change across the globe.

Day one of the conference opened with a keynote from **Kevin Bales** (Rights Lab) and an opportunities showcase where six individuals – **Kelly Gleason** (UN University), **Luis Fabiano de Assis** (SmartLab Brazil), **Dominique Roe-Sepowitz** (Arizona State University), **Doreen Boyd** (Rights Lab), **Harry Cook** (Counter Trafficking Data Collaborative), **Todd Landman** (University of Nottingham), **Chris Cuthbert** (Lumos Foundation), and **James Goulding** (Rights Lab) – involved in the battle against trafficking exhibited their current work and discussed the kinds of future tools they might need to be more effective.

Among the work showcased was an analysis done by Kevin Bales on the type of language used by survivors of trafficking. He found that survivors rarely use the future tense; instead their

language focuses on the past suggesting an “atemporality and aspatiality of the lived experience of slavery.” Survivors also rarely use the pronoun ‘I’, replacing it with ‘me’, indicated the view of the self as an object, not a subject.

The rest of day one was split into parallel “hothouse” sessions, with small panels that addressed potential opportunities within human trafficking that computational science could address, like vulnerability mapping and modeling, mining government data, and detecting slavery from space. CCC Council Member **Nadya Bliss** (Arizona State) was the moderator of one such hothouse on Using ICT (Information and communications technology) to find hidden populations. Topics discussed included what indicators are there that someone is being sex trafficked versus being a willing adult participant; approaches to sentinel surveillance, a **concept taken from epidemiology** to more actively track certain trends; and the DARPA **Memex project** that was developed to combat human trafficking through advanced online search capabilities.

“With Target 8.7, 193 countries agreed to take immediate and effective measures to end forced labor, modern slavery, and human trafficking by 2030, and the worst forms of child labor by 2025.”



Code 8.7 (continued)

Day two of the conference was focused around current challenges in the space. After a recap of the previous day's hothouses there were three plenary discussions:

1. "Towards a pipeline - Technology, Techniques and Training", which featured Nadya Bliss as the discussant.
2. "Creating incentives for action - Research, Regulation and Rewards," including CCC Council Members **Keith Marzullo** (University of Maryland) to discuss the role of government and academia, and **Dan Lopresti** (Lehigh University), who shared the **challenges to developing a shared research agenda**.

3. "How can we advance collaborative problem-solving?" an open discussion amongst all the participants to assess how collaborative problem-solving involving computational science can accelerate progress towards Target 8.7.

This initial meeting was a great convening of many stakeholders who can make a difference to end modern slavery. The CCC is continuing to work with Code 8.7 to develop a research agenda that will help to have a major impact on combating modern slavery.

Learn more about Code 8.7 and the fight against human trafficking on the [Delta 8.7 webpage](#). Video from the entire conference is available for streaming at the links below:

Day 1: [Delta 8.7 Facebook page](#)

Day 2 AM: [UN Web TV](#)

Day 2 PM: [UN Web TV](#)

See this [podcast episode](#) about Code 8.7 and stay tuned to the CCC blog for future work in this area.

By CCC Staff



The Sociotechnical Cybersecurity panel: (from left to right) Ann Drobnis, Rebecca Wright, Brian LaMacchia, David Mussington, and Keith Marzullo

How does social science and government policy affect technology? That was the main question the **Socio-technical Cybersecurity: It's All About People** scientific session attempted to answer at this year's **American Association for the Advancement of Science (AAAS) Annual meeting** in Washington, DC.

The session was moderated by **Computing Community Consortium (CCC) Director Ann Drobnis**, and CCC Council Member **Keith Marzullo** (University of Maryland, College Park) was the discussant for the panel, which included participating speakers:

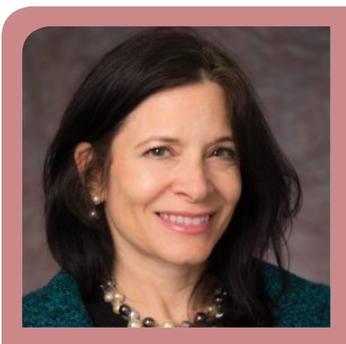
- **Brian LaMacchia** (Microsoft Research) highlighted the challenges in cybersecurity in the age of cloud and edge computing in his presentation **Cyberspace: Enabling Trustworthy and Autonomous Agency**;
- **David Mussington** (University of Maryland, College Park) discussed the necessity of increased education in cybersecurity for policy makers and the need to bolster congressional staff with cybersecurity experts in his presentation **Cybercrime: The Need for Evidence-Based Policy**;
- **Rebecca Wright** (Rutgers/Barnard) highlighted the impact that design and regulations can have on compromising and/or enhancing privacy and security in her presentation **Misalignment of Incentives in a Complex Multi-stakeholder Setting**.



Brian LaMacchia

Brian LaMacchia

During the Q&A portion of the session, Brian LaMacchia made the case for developing better autonomous detection systems in order to deal with the high volume of attempts of cyberattacks. According to Brian, there are nearly 30 million login attempts to Microsoft accounts from adversaries per day, far too many for human beings to monitor and respond to. In order to deal with this volume the computing community must improve machine learning and automation tools that can identify attacks and pass them on to a human being for more nuanced responses.



Rebecca Wright

Rebecca Wright

One audience member asked the panel about the shortage of qualified security experts in the workforce and what that will mean for the US in the next 5 years. Rebecca Wright made the case for developing training for current software engineers to improve their understanding of embedded security and privacy, and also argued for revamping the computer science curriculum to ensure that security is taught throughout and not only as a standalone topic. She also said the computing community needs to find ways to attract and retain more women and underrepresented minorities in cybersecurity careers, starting even at the K-12 level, in order to improve the workforce capacity of the future.



David Mussington

David Mussington

Another audience member asked what role can legislation play if it turns out that the incentives are wrong? In response, David Mussington argued that companies should be made liable to customers who have their information released in a data breach – the volume of data that exist on American citizens can cause real harm. He also discussed the potential benefits of passing national privacy protections similar to the European Union's **GDPR** or **California's new online privacy law** that would force companies to give consumers more information about how their data is being used. Mussington also argued the need for greater urgency in our response to cyberthreats and attacks; after all cybersecurity not only impact your Facebook page and bank account, but critical infrastructure like power plants and nuclear facilities. The last decade of trying and retrying the same approaches to policy have not yielded a more secure cyberspace and cyber threats are demonstrably worsening. Without concerted efforts to improve our capacity for security through automated tools, retraining programs, and innovative policy the problem of cybersecurity will continue to negatively impact the United States and its citizens.

For more information see the [CCC@AAAS website](http://ccc@aaas.org)

CCC@AAAS2019 - Sustainably Feeding Ten Billion People

By CCC Staff

How can we feed the world's population – projected to reach ten billion people by 2050 – in a sustainable way that preserves the health of individuals, communities, and the environment? How can computer science be utilized to improve food production, processing, and distribution? These were the main topics at the **Computing Community Consortium's (CCC)** scientific session on **Sustainably Feeding Ten Billion People** that took place February 16th at the **AAAS 2019 Annual Meeting**.

The panelists for this session were **Diane Wang** (SUNY Buffalo), **Ranveer Chandra** (Microsoft Research), and **Abraham Stroock** (Cornell), while **Susan McCouch** (Cornell) moderated the session.

Diane Wang's presentation on **Coupling Nature and Nurture: Supercharging Predictions for Agricultural Crops** provided an overview of the history of human agriculture, starting with early crop domestication up to the **Green Revolution** of the 1960s to **marker assisted selection** of the 2000s, setting the stage to explain the major impact that selective breeding has had on our ability to increase agricultural yields. Wang's current work uses computer simulation modeling that combines genetic information with knowledge of plant response to environmental stress in order to improve predictions of crop performance. The long-term goal of this work is to augment visual and marker-assisted selection with a new selection tool to help breeders to make decisions under novel environments.

In **Bridging the Digital Divide: Cloud Computing with Smart Sensors for Farms**, **Ranveer Chandra** discussed his work with Microsoft Research's **FarmBeats project**. Farmbeats provides farmers with access to sensors, cloud computing, and machine learning algorithms to enable data-driven decision-making. Chandra's projects relied on creating end to end solutions to the problems of data collection for rural farmers; for instance, since farmers typically have poor access to internet connections he used the white spaces that exist in unused TV channels to increase connectivity and access to the cloud. In areas where drones were too expensive, constrained by regulations, or were too power constrained his team created "Tethered Eyes" – cell phones tied to balloons. Tethered eyes are relatively cheap



The Sustainably Feeding Ten Billion People panel: (from left to right) Ann Drobnis, Susan McCouch, Diane Wang, Ranveer Chandra, and Abraham Stroock

and have a long (4-7 day) lifetime, which improves the ability of farmers to monitor their fields.

Finally, Abraham Stroock spotlighted the need for greater research on the biomechanics of plants in **Measuring the Pulse of Plants: Biomimetic Nanotechnologies**. While there is clearly tons of biomedical research into humans and other animals, Stroock called plants "the forgotten eukaryotes" – no tool comparable to a hypodermic syringe, a basic medical tool to insert or expel fluids in animals, exists for plants. Stroock's presentation detailed his research project to build synthetic plants that can interface with real plants to determine the water pressure within the stem and monitor other related traits. This work aims to improve water management in farms by monitoring the dynamics in real plants, turning the organism into a sensor.

During the Q&A a number of participants asked about the issues of cybersecurity and data management related to these projects. Chandra spoke not only to the need to ensure that data is not compromised during collection/storage, but also to the necessity of verifying that the data has not been changed or corrupted before being deployed. Susan McCouch referenced several different models for data management and usage, including **Farmobile** that pays farmers a flat rate for data or farmer co-ops that pool data together to sell it as a coalition.

For more information see the **CCC@AAAS webpage**.

CCC@AAAS 2019- Cybersecurity: Transcending Physics, Technology, and Society



CCC

Computing Community Consortium
Catalyst

By CCC Staff

Am I safe sitting at home with my pacemaker? Am I safe shopping online? Am I safe when I am using my web-cam enabled computer?

These are all real concerns brought up by audience members at the **Computing Community Consortium (CCC)** scientific session at the 2019 **American Association for the Advancement of Science (AAAS) Annual Meeting in Washington, DC**. This session called *Cybersecurity: Transcending Physics, Technology, and Society* was moderated by CCC Chair **Mark D. Hill (University of Wisconsin-Madison)**. The speakers were **Kevin Fu (University of Michigan)**, **John Masters (Red Hat)**, and **Zeynep Tufekci (University of North Carolina at Chapel Hill)**.

Kevin Fu started the session by asking the audience what happens if your oven broiler turns on every time your phone rings. Is that a problem? Yes, a big one. So how can we prevent hackers from theatrically doing something like this in the current Internet of Things (IoT) environment that we live in? It is not possible to blindly test all sensors all the time. As Fu explained, computers today are vulnerable to analog cybersecurity threats. If we keep removing the human in the loop, we will have to keep solving more and more security challenges. **He was asked by an audience member if there are regulatory frameworks for these issues** and said “No, not really. These issues are about 5-10 years out. For defense, medical devices, regulations can work, but IoT is consumer driven, so security gets left out.”



“computers today are vulnerable to analog cybersecurity threats. If we keep removing the human in the loop, we will have to keep solving more and more security challenges.”

In John Masters’ talk, he explained that if you trade performance for security, it will lower the overall performance because of the associated risk. Similar to what Fu was saying, Masters explained that in order for us to prevent future Spectrum and Meltdown issues, we need vendors to care, which is a “challenge for industry to solve.”

Finally, in Zeynep Tufekci’s talk, she reiterated the importance of having security being built into all new products,

as you never know the access points for finding information out which may be harmful, even out of context. We need everyday devices and everyday computers to be hard to hack. A physical switch is key. We can’t rely on an assumed “off” since that could be hackable. It is critical that in order to protect all people, “every company should be in the business of cybersecurity.”

So, yes, you are safe at home with your pacemaker. As Fu said, “if I was prescribed a pacemaker, I would take it. The risk of not having one is much greater than having one.” Just like with online shopping and using a web-enabled computer, there is risk but if you are smart – for instance, by using Masters’ recommendation that when shopping online you should only use one credit card with a low limit – you will be fine. We are just at a point where industry needs to recognize that security is an important feature that should be considered in all new smart technologies.

For more information see **the CCC@AAAS website**.

Announcements

CRA Board Member Charles Isbell Named Dean of College of Computing at Georgia Tech

CRA Board Member Charles Isbell has been named the next dean and John P. Imlay Jr. Chair in the College of Computing at Georgia Tech, effective July 1. Isbell serves as the AAAI representative to the CRA Board.

From the Georgia Tech [press release](#):

“Dr. Isbell has a longstanding track record of teaching and scholarly excellence, leadership, and advocacy in his service to the College of Computing community,” said Rafael L. Bras, provost and executive vice president for Academic Affairs and K. Harrison Brown Family Chair. “I very much appreciate his vision for the College and its alignment with the Institute’s vision and goals for education and research. I know that that, together, the students, faculty, and staff, under Dr. Isbell’s leadership, will continue the trajectory of innovation in research and education that characterizes the College of Computing.”

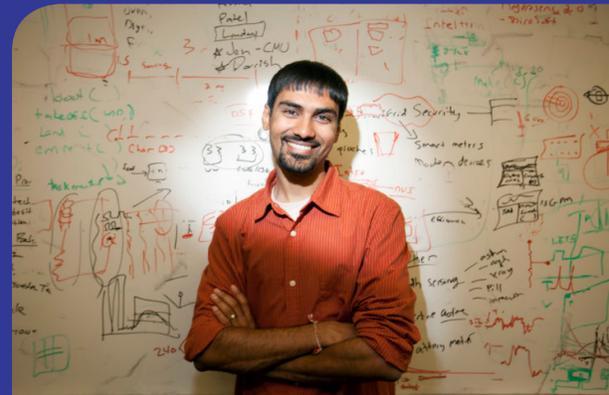
Isbell joined the Georgia Tech faculty as an assistant professor in the College of Computing in 2002, serving in advancing academic, research, and administrative leadership roles. During that time, he has been in the midst of various educational innovation and diversity and inclusion initiatives in the College of Computing, such as the Threads program, the Online Master of Science in

Computer Science (OMSCS), and the Constellations Center for Equity in Computing. In addition, Isbell has been a champion and supporter, at the Institute level, of many research initiatives and centers led by and originated by his colleagues in the College of Computing.

“I am honored to be selected as the next dean and John P. Imlay Jr. Chair of the College of Computing as we prepare for the next generation of learners,” Isbell said. “The breadth represented in the field of computing – including information and data science, computer engineering, and others – is central to the future of universities as we face changing student needs, increasing workforce demands, an evolving relationship with industry and the public, the need for new ways of supporting cutting-edge research, and persistent issues of equity and access.”

Isbell’s research interests are varied and include artificial intelligence with particular emphasis on interactive machine learning, including using machine learning to model human behavior. He is a fellow of both the Association for the Advancement of Artificial Intelligence (AAAI) and the Association for Computing Machinery (ACM).

Click [here](#) to read the full release.



CCC Council Member Shwetak Patel Receives ACM Prize in Computing

The [Association for Computing Machinery](#) (ACM) has announced it’s **2018 Prize in Computing** award to **Shwetak Patel**, of the **University of Washington** and Google and a Computing Community Consortium (CCC) Council Member. The ACM Prize in Computing is their second most prestigious award in all of computing (after the Turing Award – known as the Nobel Prize in Computing). Patel is the recipient of the 2018 ACM Prize in Computing for contributions to creative and practical sensing systems for sustainability and health. In just a decade, he has had incredible impact in the applications of AI and sensing in two broad areas – developing methods for disaggregating energy and water usage in the home and developing new methods of health sensing and advancing clinical science through the use of commodity sensors.

On the CCC Council, Patel co-leads the **Health and Human Computer Interaction Task Force** and is currently planning a visioning activity on mental health and addiction.

Click [here](#) to view the CCC blog post.



From the everyday to the exceptional, Microsoft Research pushes boundaries to help you achieve more.

microsoft.com/research



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Community Consortium

Column Editor

Expanding the Pipeline
Patty Lopez, Intel

Birmingham-Southern College

Assistant Professor of Applied Computer Science

Birmingham-Southern College (BSC) invites applications for a tenure-track Assistant Professor in Applied Computer Science (ACS) beginning fall 2019. We seek a faculty member with broad teaching and research interests who will support, enhance, and expand the ACS curriculum at all levels and who can collaborate with colleagues and students across disciplinary lines in a liberal arts environment. We are looking for applicants with a PhD in CS, Human Centered Computing, Information Systems, or a closely related field. BSC is committed to diversifying our faculty and access to higher education, and our department strives to increase access to STEM majors and careers among underrepresented groups. We seek a colleague who shares these aspirations, and we value faculty engagement with the professional and wider community.

This is a unique position in that this faculty member will contribute to the development of the ACS program, having a direct impact on curricular changes. For more information and application instructions, please visit <https://www.bsc.edu/administration/humanresources/careersbsc.html>.

Boston University

Senior Lecturer

The Department of Computer Science invites applications for a Senior Lecturer position beginning July 1, 2019. Qualifications required of all applicants include a Ph.D. in Computer Science or related discipline, at least 5 years of a strong professional record and industry experience, and a commitment to teaching at the undergraduate and graduate levels. Particular attention will be given to candidates with interests in foundations of algorithms and systems, and application areas including data science, artificial intelligence, machine learning, databases, and distributed programming.

The Department consists of 30 tenured and tenure track faculty members, and offers programs leading to B.A., M.S., and Ph.D. degrees. The Department has research strengths in data mining, databases, graphics, image and video computing, machine learning, natural language processing, networking, operating systems, software design and implementation, real-time systems, security and cryptography, and theory of computation and algorithms. In addition, members of the Department have close collaborative relationships with faculty in mathematics and statistics, computer engineering, and biology, among others.

Review of applications will begin immediately and continue on a rolling basis. Additional information of the Department is available at <http://www.bu.edu/cs>. Qualified applicants should apply at <https://academicjobsonline.org/ajol/jobs/13372>.

Boston University expects excellence in teaching and in research and is committed to building a culturally, racially, and ethnically diverse scholarly community. We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

Brandeis University

Full-Time Lecturer in Computer Science

The Computer Science Department at Brandeis University invites applications a full-time lecturer. The position, which carries the equivalent of a five-course teaching load, will have an initial appointment of up to three years and the potential for renewal. We seek candidates who are able to teach a wide range of first and second year computer science courses, as well as occasional upper-level and graduate electives. The successful candidate must be committed to excellence in undergraduate teaching, and is expected to participate broadly in activities relevant to our teaching mission.

A masters degree in Computer Science is required; a Ph.D. is preferred. Candidates should be able to demonstrate excellence in teaching computer science at the university level. Industrial or entrepreneurial experience is also valuable. Salary is commensurate with qualifications.

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

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

To apply, please submit a cover letter, a curriculum vitae, a teaching statement, student or peer evaluation, and three letters of reference, to csoffice@brandeis.edu, with a subject line indicating interest in this lectureship.

Bryn Mawr College

*Lecturer or Visiting Assistant
Professor of Computer Science*

The Department of Computer Science at Bryn Mawr College invites applications for a full-time, one-year position in Computer Science starting August 2019. An advanced degree (completed Ph.D. preferred, but ABD or Master's is acceptable) in Computer Science or a closely related field is required. For more details on the position, please visit the Interfolio link below.

To apply, submit a cover letter; curriculum vitae; sample syllabi of courses able to offer and course evaluations from past courses (if available); together with two letters of reference via Interfolio at: <https://apply.interfolio.com/61030>.

Review of applications will begin immediately and continue until position is filled.



ASSISTANT PROFESSOR
Computer Science
VACANCY #: 929921
Recruitment Range: Commensurate with Qualifications
Closing Date: Open Until Filled

East Carolina University's Department of Computer Science invites applications for a position at the tenure -track Assistant Professor level. The primary emphasis areas for computer science faculty are teaching excellence; collaborative, funded research and scholarship; and service to promote student success and enhance the quality and reputation of the computer science program. Active involvement in outreach to industry is highly valued. Candidates should be committed to innovation and creativity in computer science education methods and approaches. Teaching assignments may range from core computer science courses such as algorithmic problem solving, and discrete structures, to concentration courses such as operating systems, computer network and software engineering, or graduate courses such as software construction, cloud computing and data base management systems. Candidates will develop active, collaborative research programs and seek external funding support. Candidates will provide service to the university, community, and profession.

Additional details about the position, including the full job description, qualifications, and instructions for submitting application materials may be found by accessing this link: <https://ecu.peopleadmin.com/postings/24516>

Applicants must complete a candidate profile online via the PeopleAdmin system at <http://jobs.ecu.edu> along with a cover letter, curriculum vitae, a statement of teaching philosophy, experience and interests, a statement of research interests/plans and a list of references, including contact information.

Equal Opportunity/Affirmative Action Employer

Cal Poly University

Full-Time Lecturer - Computer Science

COMPUTER SCIENCE: Full-Time Lecturer positions available in the Computer Science Department at Cal Poly, San Luis Obispo, during the 2019-2020 academic year.

For details, qualifications and application instructions (online faculty application required), visit WWW.CALPOLYJOBS.ORG, and refer to Requisition #105194.

Review Begin Date: April 22, 2019. EEO.

Clemson University

Assistant Professor

The School of Computing at Clemson University invites applications from a culturally diverse pool of candidates for a position in the computer science division. Candidates from all areas of computer science will be considered. Preference will be given to candidates at the rank of Assistant Professor, though the rank of Associate Professor will be considered.

More information may be found at

<http://www.clemson.edu/cecas/departments/computing/connect/tenuretrackCS2019.html>

Clemson University does not discriminate against any individual or group of individuals on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status or genetic information.

Clemson University is an Affirmative Action/Equal Opportunity Employer.

George Mason University

Tenured Faculty Positions in the Volgenau School of Engineering

The George Mason University Volgenau School of Engineering seeks outstanding faculty candidates for multiple tenured faculty positions at the Associate or Full Professor rank. We seek outstanding, entrepreneurial faculty having proven leadership in research in our strategic growth areas and who are passionate about research and education and in a dynamic, multi-disciplinary environment. Areas of interest include but are not limited to artificial intelligence and machine learning, robotics and autonomous systems, cybersecurity, smart infrastructure, smart materials, advanced manufacturing, biomedical imaging and devices, biomaterials, and sustainability. Candidates with an impactful research record in emerging areas that are critical to addressing global challenges are particularly encouraged to apply.

Responsibilities

The candidate will be expected to lead transformative growth and impact of our research portfolio, and to further encourage and foster new and existing collaborations with academic, industrial, and governmental institutions in the greater Washington, D.C., area. The successful candidate will be expected

to accelerate the growth of high-quality academic programs, facilitate interdisciplinary research initiatives, and broaden the scope and focus areas of research in Mason with significant potential for commercialization.

Required Qualifications:

Candidates must have earned a doctorate in engineering, computer science, information technology, or a related field; and be eligible for a tenured appointment at the rank of associate or full professor. The successful candidate should have an outstanding research and publication record, as well as a commitment to excellence in both graduate and undergraduate education; significant leadership experience, including fostering interdisciplinary research/education and mentoring more junior colleagues. Candidates must have a demonstrable commitment to diversity and inclusion in higher education.

How to apply:

For full consideration applicants must complete the online application at <http://jobs.gmu.edu/> for position number F383AZ, and upload a cover letter, a complete C.V. with publications, a teaching statement, a research statement, a statement on diversity and inclusive excellence experience and the names of three professional references with contact information.

Georgia Tech

College of Computing Lecturer Job Opportunity

The College of Computing at the Georgia Institute of Technology in Atlanta, Georgia was established in 1990 under the direction of the founding dean, Peter Freeman. The college is a world-class leader in research and computing breakthroughs. Based on the latest ranking in the U.S. News and World Report, our graduate program is currently ranked 8th nationally. The college consists of three schools that provide specialized and general computing education to the entire campus. The college is part of Georgia Institute of Technology, which is a unit of the University System of the State of Georgia and is primarily located in the heart of Atlanta, Georgia. Georgia Tech is ranked #34 amongst national universities.

The Division of Computing Instruction within the College of Computing invites applications for a full-time, non-tenure-track faculty position at the rank of Lecturer to start Fall of 2019. Primary responsibilities will include but not be limited to providing high quality classroom teaching. In particular, the lecturer is expected to teach 3 sections of introductory undergraduate classes per semester.

Applicants must have a Master's Degree or preferably a PhD (or other terminal degree) or be enrolled in a PhD program close to completion by the time of appointment with a strong background and experience with teaching. This is a 9-month contract

although summer teaching is typically available. This position can be renewed depending on funding and the needs of the College.

Application Procedure: We invite applications from qualified individuals immediately. To ensure full consideration, all candidates are asked to apply via email by April 30, 2019. Interested applicants should send an email to Michelle Meadors, HR Manager at mmeadors3@cc.gatech.edu with "Lecturer Position" in the subject line. Applications should include a cover letter, curriculum vitae, teaching statement, material relevant to the applicant's teaching abilities (course surveys, teaching examples etc.), and three recommendation letters. This search will begin right away and will continue until the position is filled.

The George Washington University

Professor of Practice

The Department of Computer Science at The George Washington (GW) University in Washington DC invites applications for a Professor of the Practice position starting as early as August 2019. This non-tenure track faculty position offers a professional teaching career track with a well-defined promotion path and privileges. The appointment may be made at the rank of Assistant, Associate, or Full Professor of Practice.

Responsibilities:

This position will have as its primary focus the development and delivery

of a "CS for All" course and curriculum appropriate for students across the University. Specific responsibilities include course design, lecturing, and managing teaching assistants and graders, as well as outreach to other departments to ensure that this course supports the integration of computing into the curriculum across many disciplines. The position may also support other curricular, advising, and teaching needs within the Computer Science Department.

An initial multi-year appointment will be offered in accordance with the University's Faculty Code.

Minimum Qualifications:

Applicants for the Professor of Practice position must be highly effective classroom teachers who can demonstrate excellent educational leadership and organizational skills. They must demonstrate a commitment to educating a broad and diverse group of students and to increasing the participation and success of students from groups underrepresented in computer science. Applicants must have a Ph.D. in Computer Science or closely related field by the date of appointment.

Enquiries and Application:

To enquire, please email to cssearch@gwu.edu or call 202-994-7181. To apply, complete the online faculty application, at <http://www.gwu.jobs/postings/64917> and upload: (1) a detailed curriculum vitae; (2) a statement of teaching interest regarding teaching philosophy and

experience, including evidence of course and curriculum design and implementation and commitment to promoting inclusion and diversity; (3) teaching evaluations or summaries as evidence of teaching effectiveness; (4) a short cover letter describing your background and interests in teaching undergraduates at George Washington University; (5) A diversity statement detailing how past or future contributions to diversity and inclusion will improve the experience of students at GWU. Please have three references email their letters directly to cssearch@gwu.edu. Review of applications will begin on March 11, 2019 and will continue until the position is filled.

EEO/AA Policy:

The university is an Equal Opportunity/Affirmative Action employer that does not unlawfully discriminate in any of its programs or activities on the basis of race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity expression, or on any other basis prohibited by applicable law.

BACKGROUND SCREENING STATEMENT:

Employment offers are contingent on the satisfactory outcome of a standard background screening.

Grand Canyon University

Hiring Faculty for College of Science, Engineering and Technology - Phoenix, Arizona

Make a Difference at Grand Canyon University

Shape the bright futures of Grand Canyon University students as a full-time or part-time Faculty member for the traditional ground campus in the College of Science, Engineering and Technology. Through hands-on, project-based learning, the college provides an outlet for innovation and cross-disciplinary exposure. It also features pre-professional degrees in biology, alongside our degrees in information systems and engineering, and forensic science and exercise science programs.

As a full-time or part-time Faculty member, you'll provide program instruction incorporating innovative teaching methodologies, cutting-edge technologies and other industry trends reflecting advancements in your discipline. If you are highly motivated and passionate about teaching exceptional quality instruction in modern facilities with smaller class sizes, we'd like to hear from you.

We are currently hiring for the following areas:

- *Computer Science*
- *JavaScript*
- *Electrical Engineering*
- *Mechanical Engineering*

- *Software Engineering*
- *Cybersecurity*
- *Exercise Science*
- *Environmental Science/Chemistry*

For full job descriptions and application details, please visit <https://jobs.gcu.edu>.

Candidates please apply at jobs.gcu.edu.

Grove City College

Assistant/Associate/Full Professor of Computer Science

Grove City College announces a regular full-time faculty opening in the Department of Computer Science beginning in August 2019. A Ph.D. in Computer Science or a closely related field is required for continuing employment, but we will consider candidates who are nearing completion of their doctorate. Responsibilities include teaching a variety of lower-level and upper-level undergraduate computer science courses, guiding undergraduate student research projects, and developing innovative pedagogy and curriculum.

Preference will be given to those who have a strong record of training or classroom teaching and scholarship within their field. Candidates must have a commitment to instructing and advising highly motivated students. Rank and salary are commensurate with qualifications. Faculty members are expected to teach a 4/4 load.

Please send a current curriculum vitae, names and contact information of four references (three professional and one pastoral), and a letter of interest that includes an explanation of how your Christian faith represents a strong fit with Grove City College's unique mission as a Christian college see: (<http://www.gcc.edu/Home/Our-Story/Faith-Freedom/Vision-Mission-Values>) to: Ms. Jamie N. Kimble, Assistant Director of Human Resources at employment@gcc.edu.

Grove City College is a private educational institution noted for its academic excellence where scholarship is informed by Christian principles. It does not discriminate on the basis of race, color, creed, sex, national origin, age, ancestry, non-job-related disability, use of a guide or support animal, or any other basis prohibited by applicable law in the administration of its educational policies, admission policies, scholarship and loan programs, and athletic and other college-administrative programs.

Max Planck Institute for Demographic Research-Software Developer

Software Developer - Digital and Computational Demography

The Max Planck Institute for Demographic Research (MPIDR) in Rostock, Germany, is recruiting a Software Developer to join the Laboratory of Digital and Computational Demography.

For more information please see our website: <https://www.demogr.mpg.de/go/software-developer>

New College of Florida

Visiting Assistant Professor in Computer Science

New College of Florida seeks applicants for a one-year Visiting position in Computer Science starting mid-August. The teaching load is two classes per semester. We are particularly interested in candidates who would like to teach Operating Systems and/or Programming Languages. Visiting faculty are invited to sponsor tutorials and senior theses in their area of interest. A Ph.D. in computer science or a related field is required by start date.

Review of completed applications will begin immediately and continue until the position is filled.

NCF is an EEO employer.

<https://www.ncf.edu/employment>

New Jersey Institute of Technology

Director of the Center of Big Data

The Ying Wu College of Computing (YWCC) at the New Jersey Institute of Technology (<http://computing.njit.edu/>) invites applications for a tenure-track/tenured faculty member to serve as the Director of the Center for Big Data (CBD). Candidates must have a PhD in computer

science or a related discipline with a demonstrated track record of scholarly accomplishments commensurate with the appointment at the rank of Associate Professor or above. Appropriate areas of expertise include, but are not limited to: pattern recognition, machine learning, natural language processing, social media, analytics, high-performance computing for integration, analysis, visualization, and stream processing of very large amounts of structured, semi-structured, or unstructured data in areas such as business data, scientific data, medical data, etc.

The Center for Big Data at NJIT, <https://centers.njit.edu/bigdata/> is a new multi-disciplinary center designed to synergize the strong expertise in various disciplines across the NJIT campus and develop a rich set of big data enabling technologies and services. The CBD aims to investigate, develop, and apply cutting-edge technologies to address unprecedented challenges in Data Science and Big Data with high Volume, high Velocity, high Variety, and high Veracity, in order to create high Value. The CBD groups faculty from Computer Science, Informatics, Math, Statistics and Management.

The successful candidate will hold a faculty appointment in the department of Computer Science and build the CBD into a vibrant research group. As the Director of the CBD he/she must attract funding and develop collaborative relationships with industry. He/she must demonstrate recognition for productivity and achievement in research and

the ability to work collaboratively with colleagues. The ideal candidate should have a strong business sense, experience in new program/center development and an understanding of what it takes to enhance research funding in a competitive environment. Exceptional organizational and communication skills, financial acumen and the potential to fundraise are essential. As a faculty member of the Computer Science department, he/she is expected to (1) teach undergraduate and graduate classes within an adjusted workload, supervise graduate students; (2) develop and teach new graduate and/or undergraduate classes and (3) serve the Department, the College and the University.

Reporting to NJIT Senior Vice Provost for Research, the Director of the Center for Big Data will have his/her primary appointment in the Computer Science department within YWCC. NJIT's Computer Science Department 40 faculty and approximately 1600 students at all levels across nine programs of study. The Computer Science Department participates alongside NJIT's Informatics Department in generating the largest pool of computing talent in the tri-state (CT, NJ, NY) area. The department conducts research in a wide range of areas and plays a key role in the NJIT Center for Big Data and the NJIT Cybersecurity Research Center. The department has strong connections with local industry and works closely with many corporations through student Capstone projects, internships, co-ops and joint R&D projects.

The Computer Science Department is housed in a state-of-the-art facility renovated in Fall 2018. The department resides within the Ying Wu College of Computing, which is undergoing significant growth as a priority area for NJIT. This growth is an integral part of NJIT's five-year strategic plan, called Vision 2020, which calls for consolidating NJIT as a world-class institution of higher education and research. Applied research, collaboration with industry, innovation and entrepreneurship are encouraged and supported. Performance and tenure expectations are aligned with those of the broader computing community, with an emphasis on grant funding and publishing in top conferences and journals.

The Ying Wu College of Computing comprises 23% of the NJIT enrollment, educating more than 2,800 students in computing disciplines, and graduating close to 800 computing professionals every year.

NJIT is located in Newark's University Heights, a vibrant sprawling downtown campus close to Rutgers-Newark, New Jersey Innovation Institute, Essex Community College, New Jersey Medical School, University Hospital, and Rutgers School of Dental Medicine. NJIT is just a 30-minute train ride from New York City and its burgeoning Silicon Alley tech sector. In the near future, NJIT plans to open a facility in Jersey City, just across the Hudson River from the financial district of Lower Manhattan in New York City.

To Apply

To apply, please follow this link:
<https://njit.csod.com/ats/careersite/JobDetails.aspx?site=1&id=935>

Applications must include a cover letter, a curriculum vitae, and the names and contact information of five references.

Supplemental materials and inquiries may be emailed to big-data-director-search-group@njit.edu.

As an EEO employer, NJIT is committed to building a diverse and inclusive teaching, research, and working environment and strongly encourages applications from individuals with disabilities, minorities, veterans and women.

New Jersey Institute of Technology

Tenure-track Faculty Positions

The Computer Science Department at New Jersey Institute of Technology (NJIT) invites applications for multiple tenure-track faculty positions starting in Fall 2019. Areas of special interest are:

- Computer Graphics, Geometric Modeling and Robotics. Priority will be given to candidates whose research has the potential to leverage NJIT's brand-new, advanced Makerspace facility for 3D Printing, Computational Manufacturing, and Digital Fabrication (<https://www.njitmakerspace.com/>)
- Foundations of Data Science and Machine Learning; Artificial Intelligence

- Programming Languages; Software Engineering
- Distributed Systems

Exceptional candidates in other areas will also be considered. While we are especially interested in hiring at the rank of Assistant Professor, exceptional candidates at higher ranks will be considered.

Applicants must have a Ph.D. degree by Summer 2019 in a relevant discipline, and outstanding academic credentials that demonstrate their ability to conduct independent world-class research and attract external funding. The successful candidate is also expected to show a commitment to both undergraduate and graduate education.

NJIT's Computer Science Department has 40 faculty and approximately 1600 students at all levels across nine programs of study. The Computer Science Department participates alongside NJIT's Informatics Department in generating the largest pool of computing talent in the tri-state (CT, NJ, NY) area. The department conducts research in a wide range of areas and plays a key role in the NJIT Center for Big Data and the NJIT Cybersecurity Research Center. The department has strong connections with local industry and works closely with many corporations through student Capstone projects, internships, co-ops and joint R&D projects.

The Computer Science Department is housed in a state-of-the-art facility renovated in Fall 2018. The department resides within the Ying Wu College

of Computing, which is undergoing significant growth as a priority area for NJIT. This growth is an integral part of NJIT's five-year strategic plan, called Vision 2020, which calls for consolidating NJIT as a world-class institution of higher education and research. Applied research, collaboration with industry, innovation and entrepreneurship are encouraged and supported. Performance and tenure expectations are aligned with those of the broader computing community, with an emphasis on grant funding and publishing in top conferences and journals.

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To Apply

- Use the following link:
» <https://njit.csod.com/ats/careersite/JobDetails.aspx?site=I&id=897>

(Computer Graphics, Geometric Modeling and Robotics; Foundations of Data Science and Machine Learning; Artificial Intelligence)

- » <https://njit.csod.com/ats/careersite/JobDetails.aspx?site=I&id=898>
(Programming Languages; Software Engineering; Distributed Systems)

- Create your application, and upload your cover letter, CV, Research Statement, and Teaching Statement on that site. The CV must include at least three names along with contact information for references.

The applications will be evaluated as they are received and accepted until the positions are filled.

Contact: cs-faculty-search@njit.edu

As an EEO employer NJIT is committed to building a diverse and inclusive teaching, research, and working environment and strongly encourages applications from individuals with disabilities, minorities, veterans, and women.

Princeton University

*Department of Computer Science
Data Scientists in Biomedical Data
Science - Schmidt Data X Project*

Schmidt Data X Project. Princeton seeks six Data Scientists, in three-year term positions, to create and improve data-analysis software to operate at large scale, leading to faster discovery, wider impact, and greater continuity. Data Scientists will be part of larger research



Northeastern University



Professor of the Practice and Global Director of the Align Program

Responsibilities

Align's mission is to close America's tech diversity gap. To do so, we are reinventing Computer Science post-graduate education by scaling an innovative experiential masters in computer science for non-computer science majors. Scaling Align is a priority initiative of Northeastern University's Khoury College of Computer Sciences.

The Challenge

Women represent more than 50% of all bachelor's degree recipients but only 18% of CS graduates. Similarly, underrepresented minorities represent 25% of all bachelor's degree recipients but just 10% of CS graduates. If we can work towards closing these gaps, we will not only address a major economic challenge, but also a profound issue of social equity and inclusion.

Our Solution

The Align MS in CS is an onramp designed to bring a diversity of race, gender and thought into America's tech workforce. It differs from other MS in CS programs in several key ways:

- It is intended specifically for students who did not earn an undergraduate degree in CS.
- It begins with two semesters of Align academic bridge courses ("the bridge") to prepare students for Master's level work.
- It emphasizes work experience, leveraging Northeastern's famous co-op program and a network of 400+ corporate partners in tech.
- It is taught at night and year-round so students can finish in 2-2.5 years.
- It is offered at tech hubs across the country (Boston, Charlotte, Seattle, San Francisco, and Silicon Valley, with more locations to come).
- It seeks to amplify impact by collaborating with other higher ed institutions to scale this solution.

Our pilot to date has demonstrated strong employment outcomes, with graduates landing top jobs and leading firms and earning average salaries of \$100,000 or more. Unlike code academies, our graduates are prepared for tech leadership career paths. Unlike undergraduate programs, the program takes 2-2.5 years to complete. And, most importantly, half of our graduates will be women and 25% will be underrepresented minorities.

Qualifications

- Candidates must hold a PhD in Computer Science or related field and have 15 years of experience in academia.
- Candidates must have experience in the introductory sequence for computer science majors both in teaching and curricular development.
- Candidates must have a distinguished career in the computing field that would qualify for the title of Professor of the Practice.
- Expertise in applying machine learning to assess and drive outcomes is a plus but not required.

Additional Information

About Northeastern University Khoury College of Computer Sciences

Khoury College of Computer Sciences (Khoury College) has 1900 undergraduate, 1600 MS students and 200 PhD students. The college offers 3 BS, 7 MS, and 4 PhD programs and has 64 tenured/tenure-track and 35 teaching faculty. Research and publications put Khoury in the top 20 computer science research programs in the nation. In the last five years, the faculty and student populations have doubled in size and this growth is ongoing. As part of Northeastern's famous co-op program, Khoury works with more than 400 companies, and last year placed nearly 1100 students in co-op positions.

ABOUT THE ROLE: Global Director, the Align Program

We seek a mission-focused, strategic, seasoned academic leader to guide the ongoing growth and impact of Align. In 2019, Align student body totaled 700 students - by 2022, we aim to triple this number to more than 2,000 students. In addition, we aim to play a leadership role in the replication of this kind of approach at schools across the country.

The Global Director will lead the growth of the Align program across all campuses and will work closely with the Directors of CS and local department chair at each of the five campuses (Boston, Charlotte, Seattle, San Francisco, San Jose). The Global Director will have final responsibility for all aspects of the Align bridge curriculum as well as key co-curricular aspects, and will help to set the standards and protocols for recruiting, admissions, teaching practices, etc. Finally, the Global Director will support fundraising and marketing efforts as needed, collaborating with colleagues in advancement and marketing. This role will report to Carla Brodley, Dean of Khoury College.

A successful Global Director will be able to shape and direct a rapidly scaling program, ensure consistency and quality across geographies, collaborate and communicate cross-functionally, and empower and motivate others to deliver high-impact results.

This is an outstanding opportunity for a mission-driven academic with strong leadership skills.

RESPONSIBILITIES WILL INCLUDE:

- Oversee the Align bridge curriculum and work with faculty across campuses to support its implementation, capture learnings and refine as needed.
- Directly manage and partner with Campus Directors of CS at each location to ensure high quality implementation of the program, alignment with standards where appropriate, student satisfaction, and continuous improvement. Hire new Campus Directors of CS as new campus locations open and as otherwise needed.
- Working with the Dean and other university leaders, help design and roll out a systemic change effort to replicate Align's approach and impact at other colleges and universities.
- Lead strategic and annual planning processes for Align and work with direct reports on implementation and continuous improvement.
- Oversee data analysis and evaluation in order to assess the program's impact and effectiveness.
- Partner with marketing, recruiting and admissions teams to inform strategies and support enrollment goals.
- Act as ambassador for the program, participating in outreach, recruiting and fundraising events as needed.
- Collaborate with Dean and Associate Deans on development of additional Align Masters programs (e.g., Align Masters in Data Science) and other offerings as appropriate and strategic.

BENCHMARKS OF SUCCESS WILL INCLUDE:

- Progress towards goal of 1,000 new students per year
- Application demographics that include 50% women and 25% underrepresented minorities
- 100% client satisfaction with program
- 100% job placement for graduates
- Significant growth in number of corporate partners, number of work experience opportunities, number of scholarships

Northeastern University Equal Employment Opportunity Policy: Northeastern University is an Equal Opportunity/Affirmative Action, Title IX, and an ADVANCE institution. Minorities, women, and persons with disabilities are strongly encouraged to apply. Northeastern University embraces the wealth of diversity represented in our community and seeks to enhance it at all levels. Northeastern University is an E-Verify employer.

To apply, visit: <https://apptrk.com/1400171>

Northeastern University is an Equal Opportunity, Affirmative Action Educational Institution and Employer, Title IX University. Northeastern University particularly welcomes applications from minorities, women and persons with disabilities. Northeastern University is an E-Verify Employer.

team composed of faculty, post-doctoral researchers, graduate students (two data scientists per area). The Data Scientists will report to lead faculty members for each project.

Responsibilities:

The three targeted areas of research (Catalysis Initiative, Biomedical Data Science Initiative, Ctr for Info Tech. Policy) cut across a range of departments and interdisciplinary institutes on campus, maximizing the reach of the Data Scientists.

*Biomedical Data Science: The biomedical data science initiative is spearheaded by the Dept of Computer Science, with strong connections to the Lewis-Sigler Institute for Integrative Genomics, Princeton Neuroscience Institute, and several other engineering departments. Analyzing biomedical data at scale remains challenging, requiring new algorithms, software-analysis pipelines, standard interfaces, protection of sensitive user data, and better ways to leverage public and private cloud computing resources.

Specific responsibilities of the two Data Scientists in this group include a combination of the following:

- Develop novel algorithms, machine learning approaches, and statistical techniques, and apply these methods to large repositories of biomedical datasets.
- Develop robust, scalable and user-friendly software packages implementing novel methodology for use by external biomedical researchers.

- Implement a shared infrastructure to facilitate seamless access to massive datasets, including analysis pipelines to standardize and normalize large public/private data sets.
- Develop interfaces and virtual machines to access and analyze data on public and private cloud computing platforms.

While the specific responsibilities will vary by research project, all Data Scientists will create opportunities to educate, train, convene, and support a broad community of researchers on campus in how to best leverage data science in their research and teaching. They will also contribute to new graduate-level courses on data science as well as mini courses, workshops, and office hours. In all three areas, the Data Scientists must demonstrate expertise in researching, designing, and implementing algorithms and techniques to exploit the connections between data analysis/machine learning and the fundamental research questions explored by each group.

Qualifications:

- PhD required in computer science, data/computational science, or related disciplinary field or equivalent combination of educational training and relevant experience; advanced degree in disciplinary field (chemistry, life sciences, engineering, social sciences) strongly preferred
- 5 - 9+ years working in data analysis/scientific computing role required
- Knowledge of mathematical modeling and computational methods

- Demonstrated experience applying AI and ML concepts and tools to research questions and projects, including modeling and simulation work
- Strong coding and algorithm prototyping skills, as well as the ability to explain and document this work in accessible ways; expert knowledge of general purpose, dynamically typed object-oriented language such as Ruby or Python
- Proficiency in SQL and database design and building data-driven web applications
- Experience excelling in a highlight collaborative, multi-disciplinary research environment
- Experience determining strategy and executing interdisciplinary projects strongly preferred
- Experience as a Principal Investigator is preferred.
- Demonstrated innovative technical achievements and/or extensive managerial experience preferred

Immediate openings for qualified candidates. Use this link to apply: <https://www.princeton.edu/acad-positions/position/10661>. These positions are subject to the University's background check policy.

Requisition No: D-19-COS-00006

Rutgers University-Newark

Teaching Faculty in Computer Science

The Department of Mathematics and Computer Science at Rutgers University-Newark invites applications

for two full-time (academic year), non-tenure track positions at the rank of Teaching Instructor/Assistant or Associate Teaching Professor for the 2019-2020 academic year, beginning September 1, 2019. The successful candidate should have several years of experience teaching Computer Science at the college level (or other relevant experience), outstanding teaching skills, and a commitment to excellence in undergraduate teaching. Experience in administrating undergraduate computer courses is highly desirable. This position will be for one year, renewable contingent on satisfactory performance, availability of funding, and need for the positions. Rutgers non-tenure track positions have competitive salary and benefits. Application review will begin on March 1, 2019 and continue until the position is filled.

Minimum Education and Experience: M.A. or Ph.D. in computer science or closely related field. Experience in teaching Computer Science to a diverse undergraduate population is strongly preferred.

To be considered, an application must be submitted through

<http://jobs.rutgers.edu/postings/85628>

Swarthmore College

Visiting Assistant Professor

The Department of Computer Science at Swarthmore College invites applications for multiple two-year positions at the rank of Visiting Assistant Professor to begin

Fall semester 2019. Applications accepted at <http://apply.interfolio.com/56920>.

Swarthmore College is a highly selective liberal arts college, located in the suburbs of Philadelphia, whose mission combines academic rigor with social responsibility. The Computer Science Department currently has nine tenure-track faculty and four visiting faculty. Faculty teach introductory courses as well as advanced courses in their research areas. We have grown significantly in both faculty and students in the last five years. Presently, we are one of the most popular majors at the College and expect to have over 60 Computer Science majors graduating this year (2019).

Applicants must have a Ph.D. in Computer Science or expected by Fall 2019. Applicants strong in any area of computer science will be considered. Applications will be reviewed on a rolling basis until all positions are filled.

Swarthmore College actively seeks and welcomes applications from candidates with exceptional qualifications, particularly those with demonstrable commitments to a more inclusive society and world. Swarthmore College is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

Syracuse University

Assistant Teaching Professor - Electrical Engineering & Computer Science

The College of Engineering & Computer Science offers three Masters programs online, MS Computer Engineering, MS Computer Science, & MS Cybersecurity. Due to the rapid growth of the program, the college is looking for well-qualified candidates to join the full-time teaching faculty whose primary duty is teaching courses in these programs. The faculty will be a regular part of the faculty body of the Electrical Engineering & Computer Science department within the College on the Syracuse University campus, and he or she will have on campus office allowing close interactions with faculty. Occasionally, this position may have opportunities to teach on-campus courses. Unlike some online faculty positions in other institutions, this post is a regular faculty position that is fully integrated with the faculty body of the department and college.

For more information and to apply, please visit <https://www.sujobops.com> (job#074323).

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

University at Buffalo

Teaching Assistant Professor (Lecturer)

The Department of Computer Science and Engineering (CSE), University at Buffalo invites candidates to apply for a non-tenure track Lecturer 10 mo. position. We invite candidates from all areas of computer science and computer engineering who have a passion for teaching to apply. We are particularly looking for candidates who can operate effectively in a diverse community of students and faculty and share our vision of helping all constituents reach their potential.

Duties include teaching and development of undergraduate computer science and computer engineering courses (with an emphasis on lower division); advising undergraduate students; industry internships; laboratory and instrumentation upgrades; student excellence initiatives; ABET objectives; diversity enhancement; external educational grant support in collaboration with the CSE Undergraduate Studies Committee; participation in department and university governance (service). Contribution to research is encouraged.

The Department of Computer Science and Engineering offers both BA and BS degrees in Computer Science, a BS in Computer Engineering, a combined 5-year BS-MS program, a minor in Computer Science, and two joint programs (BA-MBA and Computational Physics) as well as MS and PhD programs.

The department has over 50 faculty members including 9 teaching faculty, and

approximately 1,000 undergraduate majors, 450 masters' students, and 160 PhD students. Members of our faculty are IEEE and or ACM Fellows. Our faculty members are actively involved in cutting-edge research and successful interdisciplinary programs and centers devoted to biometrics; bioinformatics; biomedical computing; computational and data science and engineering, document analysis and recognition; high-performance computing; information assurance and cyber security; embedded, networked and distributed systems, and sustainable transportation.

The University at Buffalo (UB), a member of the prestigious American Association of Universities, is the largest and most comprehensive university in The State University of New York (SUNY) system, with about 20,000 undergraduates and 10,000 graduate students and 1600 fulltime faculty. The School of Engineering and Applied Sciences has 6,000 students enrolled across 9 academic departments. Recently established Centers of Excellence such as Sustainable Manufacturing and Advanced Robotic Technologies (SMART), RENEW and Global Health as well as ISTL and DoD's UTC Tier 1 Center on Transportation Informatics provide many opportunities for multidisciplinary research collaboration across the university.

Buffalo is a city with a rapidly growing economy, eclectic neighborhoods, world-class art galleries and museums, a vibrant theater and music community, the Lake Erie waterfront, a city-wide system of parks designed by renowned landscape architect Frederick Law Olmsted, and

major and minor league sports teams. The awe-inspiring Niagara Falls is just 20 minutes away. The department is located on the UB North Campus in suburban Amherst, an area that combines outstanding public schools and services with a surprisingly low cost-of-living.

Applicants should have a PhD degree in computer science, computer engineering, or a related field. PhD must be conferred prior to appointment.

Please apply here: <https://www.ubjobs.buffalo.edu/postings/18626>

University at Buffalo is an affirmative action-equal opportunity employer and, in keeping with our commitment, welcomes all to apply including veterans and individuals with disabilities.

University of California, Berkeley

Lecturer

The Data Science Program at the University of California, Berkeley invites applications for a pool of qualified temporary lecturers to teach Data Science Connector courses should an opening arise, but applications will be accepted until February 3, 2020 to fill ongoing needs. For more information about the position, including required qualifications and application materials, go to:

<https://aprecruit.berkeley.edu/JPF02074>.

For questions, please contact Kalford Mills at kmills@berkeley.edu.

UC Berkeley is an AA/EEO employer.

The University of Illinois at Chicago

Clinical Track Teaching Faculty - Computer Science

The Computer Science Department at the University of Illinois at Chicago is seeking multiple full-time teaching faculty members to start Fall 2019. The clinical teaching track is a long-term career track that starts with the Clinical Assistant Professor position, and offers opportunities for advancement to Clinical Associate Professor and Clinical Full Professor. Applicants should have a PhD in Computer Science, and candidates interested in Computer Science Education research are especially encouraged to apply. Candidates would be working alongside 13 full-time teaching faculty with over 150 years of combined teaching experience and 12 awards for excellence. The department seeks candidates dedicated to teaching; candidates must have evidence of effective teaching, or present a convincing case of future dedication and success in the art of teaching. Content areas of interest include introductory programming, data structures, computer organization/systems, web development, data science, software engineering, and machine learning. The standard teaching load is 2-3 undergraduate courses per semester (depending on course enrollment).

The University of Illinois at Chicago (UIC) is one of the top-10 most diverse universities in the US (US News and World Report), a top-10 best value (Wall Street Journal and Times Higher Education)

and a hispanic serving institution. UIC's hometown of Chicago epitomizes the modern, livable, vibrant city. Located on the shore of Lake Michigan, Chicago offers an outstanding array of cultural and culinary experiences. As the birthplace of the modern skyscraper, Chicago boasts one of the world's tallest and densest skylines, combined with an 8100-acre park system and extensive public transit and biking networks.

Minimum qualifications include a PhD in Computer Science or a closely related field, and either (a) demonstrated evidence of effective teaching, or (b) convincing argument of future dedication and success in the art of teaching. Applications are submitted online at <https://jobs.uic.edu/>. In the online application, include a curriculum vitae, names and addresses of at least three references, a statement providing evidence of effective teaching, a statement describing your past experience in activities that promote diversity and inclusion (or plans to make future contributions), and recent teaching evaluations. For additional information contact Professor Mitch Theys, Committee Chair, mtheys@uic.edu.

For fullest consideration, please apply by October 18, 2018. We will continue to accept and review applications until the positions are filled. The University of Illinois is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply. The University of Illinois conducts

background checks on all job candidates upon acceptance of contingent offer of employment. Background checks will be performed in compliance with the Fair Credit Reporting Act.

University of Illinois at Chicago

Lecturer - Non-Tenure Track - Computer Science

The Computer Science Department at the University of Illinois at Chicago is seeking multiple full-time teaching faculty members to start Fall 2019. The lecturer teaching track is a long-term career track that starts with the Lecturer position, and offers opportunities for advancement to Senior Lecturer. Candidates would be working alongside 13 full-time teaching faculty with over 150 years of combined teaching experience and 12 awards for excellence. The department seeks candidates dedicated to teaching; candidates must have evidence of effective teaching, or present a convincing case of future dedication and success in the art of teaching. Content areas of interest include introductory programming, data structures, computer organization/systems, web development, data science, software engineering, and machine learning. The standard teaching load is 2-3 undergraduate courses per semester (depending on course enrollment).

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Minimum qualifications include an MS in Computer Science or a closely related field or appropriate graduate degrees for specific course material (e.g., computer ethics), and either (a) demonstrated evidence of effective teaching, or (b) convincing argument of future dedication and success in the art of teaching. Applications are submitted online at <https://jobs.uic.edu/>. In the online application, include a curriculum vitae, names and addresses of at least three references, a statement providing evidence of effective teaching, and a statement describing your past experience in activities that promote diversity and inclusion (or plans to make future contributions), and recent teaching evaluations.. For additional information contact Professor Mitch Theys, Committee Chair, mtheys@uic.edu.

For fullest consideration, please apply by December 14, 2018. We will continue to accept and review applications until the positions are filled. The University of Illinois is an Equal Opportunity,

Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply. The University of Illinois conducts background checks on all job candidates upon acceptance of contingent offer of employment. Background checks will be performed in compliance with the Fair Credit Reporting Act.

University of Louisville

Chairperson and Professor, Department of Computer Engineering and Computer Science (CECS)

The Department of Computer Engineering and Computer Science (CECS) in the J. B. Speed School of Engineering at the University of Louisville seeks candidates for the position of Department Chair. Applicants must have a doctoral degree in Computer Science, Computer Engineering, or a closely related field, and must have an exemplary record of achievement in research, teaching, and service at a level sufficient for appointment as a tenured full professor. CECS currently has fifteen tenured or tenure-track faculty and two term faculty with wide-ranging research interests and strong research groups in aerial robotics, bioinformatics, computer systems, cybersecurity, data mining, databases, innovative and emerging technologies, knowledge discovery and web mining, mobile information networks and distributed systems, multimedia, and visualization and intensive graphics. Faculty research has been supported by a variety of federal grants and industrial contracts including multiple

prestigious young investigator awards (four NSF CAREER and one NSF CRII). The department offers ABET-accredited BS and MENG degrees in CECS, an MS degree in Computer Science, and a PhD degree in Computer Science and Engineering.

Applicants must submit: (1) cover letter clearly stating the position name; (2) a summary of research interests, accomplishments, and teaching interests; (3) a vision statement; (4) curriculum vitae; and, (5) a list of four references (including postal addresses, phone numbers, and email addresses). The full position description and application details can be found at the following link:

<https://www.higheredjobs.com/details.cfm?JobCode=176928221>

Applications will close on March 31, and the review of applicants will begin April 1, 2019.

University of Memphis

Assistant Professor Tenure Track - Computer Science

The Department of Computer Science at the University of Memphis is seeking candidates for multiple Assistant Professor positions. Exceptionally qualified candidates in all areas of computer science are invited while candidates with core expertise in cyber-human systems (including computer vision, speech recognition, computer graphics, and human computer interaction (HCI)) and CS education, are particularly encouraged to apply. Candidates from

minority and underrepresented groups are highly encouraged to apply. Successful candidates are expected to develop externally sponsored research programs, teach both undergraduate and graduate courses and provide academic advising to students at all levels.

Applicants should hold a PhD in Computer Science, or related discipline, and be committed to excellence in both research and teaching. Salary is highly competitive and dependent upon qualifications.

The Department of Computer Science (www.cs.memphis.edu) offers B.S., M.S., and Ph.D. programs as well as graduate certificates in Data Science and Information Assurance, and participates in an M.S. program in Bioinformatics (through the College of Arts and Sciences). The Department has been ranked 55th among CS departments with federally funded research. The Department regularly engages in large-scale multi-university collaborations across the nation. For example, CS faculty lead the NIH-funded Big Data "Center of Excellence for Mobile Sensor Data-to-Knowledge (MD2K)" and the "Center for Information Assurance (CfIA)". In addition, CS faculty work closely with multidisciplinary centers at the university such as the "Institute for Intelligent Systems (IIS)".

Known as America's distribution hub, Memphis ranked as America's 6th best city for jobs by Glassdoor in 2017. Memphis metropolitan area has a population of 1.3 million. It boasts a vibrant culture and has a pleasant climate with an average temperature of 63 degrees.

Screening of applications begins immediately. To apply, please visit <https://workforum.memphis.edu/postings/20504>. Include a cover letter, curriculum vitae, statement of teaching philosophy, research statement, and three letters of recommendation. Direct all inquiries to Corinne OConnor (cconnor2@memphis.edu).

A background check will be required for employment. The University of Memphis is an Equal Opportunity/Equal Access/Affirmative Action employer committed to achieving a diverse workforce.

University of Missouri

Assistant, Associate, or Professor of Professional Practice

The University of Missouri (MU) Center for Geospatial Intelligence (CGI) is accepting applications for the position of Assistant, Associate, or Professor of Professional Practice. The CGI, in collaboration with the MU Data Science and Analytics program, delivers a comprehensive Program of Study in Data Science (PSDS) to agencies within the U.S. Department of Defense (DoD) and Intelligence Community (IC). In today's information-centric world, data are becoming increasingly important for the success of government endeavors as well as businesses. The PSDS curriculum covers the entire life-cycle from data ingestion and conditions at source through to intelligence, automation, and decision making products. The demand for data scientist skills within the U.S. DoD/

IC has exploded in recent years and this growth is expected to continue into the foreseeable future.

The CGI conducts interdisciplinary research in wide variety of areas including, but not limited to: satellite, airborne, and ground-based remote sensing, high performance computing for geospatial data analytics, automated feature extraction, change detection, pattern recognition, machine learning, video processing and surveillance, human geography and modeling, and many others. Over the last 10 years, the CGI has managed grants and contracts totaling more than \$30M from a diverse group of DoD/IC agencies including NGA, U.S. Army, AFRL, DARPA, and numerous defense companies that support these agencies. By leveraging multi-disciplinary research skills of its interdisciplinary faculty, the CGI is the leading academic research center in the U.S. focused on geospatial intelligence needs for defense, intelligence, and national security applications.

Accordingly, we invite applications from individuals with demonstrated experience in data science and analytics, as well as big data computational ecosystems. Applicants should have experience working in data-intensive computing environments. The successful applicant must have working knowledge of both Python and R and their use for data analytics and interfacing to big data ecosystems. Additional experience in data visualization, applied machine learning, statistical modeling, and data mining are highly preferred. The successful applicant

will assist in the delivery of training courses to the government at various sites in the U.S. and possibly overseas, as well as assist in the development and refinement of Data Science and Analytics courses. Applications for non-tenure track positions are solicited at any rank, but with a preference for the Assistant / Associate Professor levels.

Qualifications

Degree and experience should be in data science, computer science, applied statistics, or a closely related field.

The qualified candidate should have a strong background in data science and analytics using computational tools and methods; and experience with big data computational ecosystems. Experience working on projects for the federal government is desired.

The successful candidate must be eligible for and willing to obtain a U.S. Government security clearance.

<https://hrs.missouri.edu/find-a-job/academic> (Vacancy 29109)

University of Missouri

Assistant, Associate, or Research Practice

The University of Missouri (MU) Center for Geospatial Intelligence (CGI) is accepting applications for the position of Assistant, Associate, or Research Professor. The CGI, in collaboration with the MU Data Science and Analytics program, delivers a comprehensive Program of Study in Data Science (PSDS) to agencies within the U.S. Department of Defense (DoD) and

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The CGI conducts interdisciplinary research in wide variety of areas including, but not limited to: satellite, airborne, and ground-based remote sensing, high performance computing for geospatial data analytics, automated feature extraction, change detection, pattern recognition, machine learning, video processing and surveillance, human geography and modeling, and many others. Over the last 10 years, the CGI has managed grants and contracts totaling more than \$30M from a diverse group of DoD/IC agencies including NGA, U.S. Army, AFRL, DARPA, and numerous defense companies that support these agencies. By leveraging multi-disciplinary research skills of its interdisciplinary faculty, the CGI is the leading academic research center in the U.S. focused on geospatial intelligence needs for defense, intelligence, and national security applications.

Accordingly, we invite applications from individuals with demonstrated experience in data science and analytics, as well as big data computational ecosystems. Applicants should have experience

working in data-intensive computing environments. The successful applicant must have working knowledge of both Python and R and their use for data analytics and interfacing to big data ecosystems. Additional experience in data visualization, applied machine learning, statistical modeling, and data mining are highly preferred. The successful applicant will assist in the delivery of training courses to the government at various sites in the U.S. and possibly overseas, as well as assist in the development and refinement of Data Science and Analytics courses. Applications for non-tenure track positions are solicited at any rank, but with a preference for the Assistant / Associate Professor levels.

Qualifications

Applicants should have a Ph.D. in data science, computer science, applied statistics, or a closely related field. Candidates should have a strong background in data science and analytics using computational tools and methods; and experience with big data computational ecosystems. Experience working on projects for the federal government is desired.

The successful candidate must be eligible for and willing to obtain a U.S. Government security clearance.

<https://hrs.missouri.edu/find-a-job/academic> (Vacancy 29114)



Director Of John Olson Advanced Manufacturing Center With Potential Faculty Appointment

The College of Engineering and Physical Sciences (CEPS) at the University of New Hampshire (UNH) invites applications for the Director of the newly established John Olson Advanced Manufacturing Center with a starting date of July or August 2019. The Director will also engage in the academic mission of the College, and tenure-track faculty status will be considered based on the interests and qualifications of the given applicant. With respect to technical background, the College is particularly interested in candidates with expertise in systems and control with respect to the Industrial Internet of Things (IIoT), i.e., using cyber-physical systems and data analytics to improve manufacturing processes and final product attributes, or precision manufacturing processes in relation to the thrust areas of the Olson Center, i.e., precision machining, microelectronics, and lightweighting materials. Other example areas of interest include embedded systems, industrial robotics, sustainable manufacturing, and biomanufacturing. However, applications from the general area of advanced manufacturing will be considered. UNH actively creates an educational environment that fosters diversity, inclusion and quality engagement for all.

To see more details and to apply go to <http://apptrkr.com/1397621>.

- Test generation and optimization for digital, mixed-signal, analog or RF circuits and high speed I/O
- Post-silicon Validation und fault diagnosis
- Yield learning, reliability, functional safety, or security of semiconductor components
- Semiconductor applications from automotive, consumer electronic or communication
- Modeling, simulation and test at system level
- Test data analysis und visualization
- Test automation and workflows from design, fab to end users

The cooperation with Advantest opens the access to industrial data and problems within international networks and provides high international visibility. It is expected that the junior professor will contribute to teaching in Computer Science, in Electrical Engineering and Information Technology in the area of test and diagnosis.

The requirements for employment listed in § 51 Baden-Württemberg university law apply.

Written applications (including comprehensive CV, certificates, bibliography and the form found under <http://www.f05.uni-stuttgart.de/open-positions>) should be sent no later than **30th of April 2019**, to the **Dean of the Faculty of Computer Science, Electrical Engineering and Information Technology, Universität Stuttgart, Pfaffenwaldring 47, D-70569, Germany**, preferably by email

University of New Haven

Tenure Track Assistant Professor - Cybersecurity

The University of New Haven invites applications for a tenure track assistant professor position in cybersecurity.

For full description [click here](#)

Methods for Semiconductor Test and Reliability" in cooperation with the company Advantest and has to perform research and coordination tasks within this industrial cooperation.

The university is searching for a dynamic and communicative researcher with good people skills who wants to explore a holistic vision for semiconductor test jointly with experts from industry. A holistic view covers the entire life cycle starting from design, wafer manufacturing, parametric tests, wafer test, final test, system level test to the online test in the field. The fundamental methods originate from statistical and machine learning as well as other fields of artificial intelligence. Possible candidates should have experience in some of the following fields:

University of Stuttgart

Faculty of Computer Science, Electrical Engineering and Information Technology

Junior Professorship for Test and Diagnosis of Semiconductor Systems

1ST OCTOBER 2019

The professorship is installed to support the new Graduate School "Intelligent

as a PDF – to dekanat@f05.uni-stuttgart.de. Please be aware of the risks regarding confidentiality and the integrity of your application contents when sending your application via unencrypted e-mail.

The University of Stuttgart has established a Dual Career Program to offer assistance to partners of those moving to Stuttgart. For more information, please visit the website <https://www.uni-stuttgart.de/universitaet/arbeitsgeber/dualcareer/>

The University of Stuttgart is an equal opportunity employer. Applications from women are strongly encouraged. Severely challenged persons will be given preference in case of equal qualifications.

Information according to article 13 DS-GVO concerning personal data can be found at <https://www.uni-stuttgart.de/en/privacy-notice/job-application>.

Washington State University

Clinical Assistant Professor; Computer Science

The School of Electrical Engineering and Computer Science (EECS) at Washington State University (WSU) invites applications for multiple full-time clinical teaching faculty positions in Computer Science with teaching emphasis in Data Analytics and Software Engineering. The position will be based at WSU campus in Everett, WA. Candidates must hold a PhD in Computer Science or a related discipline, or hold a Master's degree in

Computer Science or a related discipline and have at least three (3) years of teaching or industrial experience in related areas. Candidates with exceptional teaching credentials in data analytics and/or software engineering with demonstrated ability in curriculum development, (both face-to-face and online teaching modes) student advising, and scholarly work are sought.

The duties of the Clinical Assistant Professor positions in Data Analytics and Software Engineering include curriculum development; advising students; teaching undergraduate courses in Data Analytics and Software Engineering; participating in continuous teaching assessment activities; effectively communicating, mentoring, and interacting with students; supporting student recruitment activities; and collaborating with others within the School, the University, or other organizations. Availability of this position and final appointment are contingent on the University budget approvals by the State of Washington.

The new faculty hired for this position will join approximately 50 existing faculty members in the School of EECS, which has experienced rapid growth in enrollment over the past four years. As of Fall 2018, around 1000 undergraduate students are enrolled in its B.S., and B.A programs, and 275 graduate students are enrolled in its M.S., and Ph.D. programs in computer science, electrical engineering, and computer engineering. EECS expects continued increase in enrollments and anticipates multiple faculty hires over the

next two years[MOUI]. The Everett campus currently hosts 7 B.S degree programs in various disciplines including (but not limited to) B.S. programs in Electrical Engineering and Software Engineering which are part of the School of EECS, and the B.S. program in Data Analytics which is a university-wide interdisciplinary program. These three programs collectively enroll about 200 undergraduate students. The campus is expecting rapid growth in enrollment, especially with new proposed programs as part of the strategic plan for campus expansion.

Washington State University is one of the nation's top 50 public research universities in computer science according to U.S. News and World Report. WSU is among 108 public and private universities in America recognized with the "very high research activity" categorization and among 240 universities and colleges nationwide to earn the "community engagement" classification from the Carnegie Foundation. WSU Everett is the newest campus in the WSU system. Its primary charge is to significantly expand access to high-quality baccalaureate and graduate degree programs in the North Puget Sound region and the state. WSU Everett aspires to be one of the state's leading public baccalaureate institutions, preeminent in STEM education and other in-demand programs, innovation, research and application.

For more information about WSU and the School of EECS, visit our home page at www.eecs.wsu.edu. For information about WSU Everett, visit everett.wsu.edu.

Applications should include a cover letter indicating the position sought, and summarizing qualifications. All applications should also include a teaching statement, curriculum vitae, and contact information for at least three references. To apply, visit <https://www.wsujobs.com/postings/43696>. Application review is expected to begin April 15, 2019. It is anticipated that successful candidates will begin their appointments on August 16, 2019.

WSU is committed to excellence through diversity, has faculty friendly policies including a partner accommodation program, on-site childcare availability, and a NSF ADVANCE Institutional Transformation grant to increase the advancement of women faculty in science, engineering and math (see <https://advance.wsu.edu/initiatives/>). These open positions are part of WSU's priority to build a diverse faculty and, as such, female and minority candidates are strongly encouraged to apply. WSU is an EEO/AA/ADA educator and employer.

Wentworth Institute of Technology

Dean of the College of Engineering and Computer Science

Wentworth Institute of Technology invites applications, nominations and expressions of interest in the position of Dean of the College of Engineering and Computer Science.

Wentworth Institute of Technology is a nationally ranked university offering a

powerful experiential and career-focused education to students throughout the world.

Inquiries, nominations and applications are invited. For fullest consideration, applicant materials should be received by April 22. Candidates should provide, as three separate documents, a curriculum vitae, a letter of application that addresses the responsibilities and requirements described in the leadership profile at <https://wit.edu/engineering/dean-search> and references.

These materials should be sent electronically via e-mail to the Wentworth Institute of Technology's consultants Concetta M. Stewart, Ph.D. and Jen Meyers Pickard, Ph.D., at WITCECSDean@wittkiever.com.

Questions may also be directed to the consultants through the office of Meaghan Shimkus at (630) 575-6725.

Wesleyan University

Department of Mathematics and Computer Science

Postdoctoral fellow

We invite applications for a postdoc position that starts in Fall 2019. For a full description see [AcademicJobsOnline](http://academicjobsonline.org/ajo/jobs/13373). <http://academicjobsonline.org/ajo/jobs/13373>. We will review applications until the position is filled; to guarantee consideration, please submit an application by 25 March 2019.