COMPUTING RESEARCH NEWS

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

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CRN At-A-Glance

CRA Update: 2025 CRA Summit Recap – AI Education and Computing Research at a Defining Moment

The 2025 CRA Summit brought together leaders from academia, industry, and government to examine how AI is transforming computing research, undergraduate and graduate education, and workforce development, and to explore strategies for aligning innovation with societal needs. *Read more on page 2*.

Spotlighting Tomorrow's Innovators: Nominations Open for 2025–2026 CRA Outstanding Undergraduate Researcher Awards

CRA invites nominations by October 15, 2025, at 9:00 pm ET for awards honoring top undergraduate talent in computing research. Winners receive conference travel support, a commemorative award, and the chance to present to Sandia and Lawrence Berkeley National Laboratory researchers. *Read more on page 8*.

Submissions Now Open for 2025 CRA Academic Member Book

CRA invites academic member units to submit a one-page PDF by September 22, 2025, showcasing recent achievements, research highlights, faculty accomplishments, and program milestones. This widely viewed resource spotlights the work of our academic member units. *Read more on page 17*.

In This Issue

CRA Update: 2025 CRA Summit Recap – AI Education and Computing Research at a Defining Moment

By Matt Hazenbush, Director of Communications with support from the CRA AI Education Fellows: Noah Cowit, Stephanie T. Jones, and Yash Tadimalla

The Computing Research Association (CRA) hosted the 2025 CRA Summit on July 28-31, 2025 at the San Francisco Marriott Marquis. Building on the legacy of the CRA Conference at Snowbird, this reimagined gathering of co-located events offered expanded opportunities for strategic connection, peer learning, and timely discussions at a pivotal moment for the computing research community.

Over the course of the week, attendees from academia, industry, and government explored how artificial intelligence (AI) is reshaping computing research, undergraduate and graduate education, and workforce development.

The program featured two primary CRA Summit events – each presented in a plenary format – along with additional leadership meetings and special gatherings.

Check out the event gallery

CRA Summit on AI Undergraduate Education

On Tuesday, July 29, speakers and panelists examined the evolving AI curriculum, balancing technical depth with responsible AI practices. Participants addressed challenges in integrating and scaffolding generative AI in teaching, developing instructional models to build capacity and access, and navigating the shifting relationship between academia and industry to prepare AI-ready graduates.

You can view the full event agenda here, and in this issue of *Computing Research News* you can read recaps from the CRA Summit on AI Undergraduate Education, including **CS Degrees vs. AI Degrees**, which explores how broad CS training compares with specialization in AI, and **Student Evaluation and Instructional Staffing**, which examines new models for preparing AI-enabled students and supporting faculty in an evolving classroom environment.

CRA Summit on AI Graduate Education and Research

On Wednesday, July 30, voices from academia, industry, and government came together to explore how the research ecosystem is adapting to rapid advances in AI. Sessions examined emerging trends and challenges in AI research, the evolving priorities of federal funders, and the need for reproducibility, rigorous evaluation, and clear communication of research impact to policymakers and the public. Speakers reflected on the global landscape of AI R&D, the pressures on graduate education to prepare students for a shifting workforce, and strategies for aligning AI innovation with societal needs and ethical imperatives.

You can view the full event agenda here, and in this issue of Computing Research News you'll find recaps of CRA's Peter Harsha in conversation with former NSF Director Sethuraman "Panch" Panchanathan, along with coverage of two panel discussions that featured CCC Council members.

CRA Summit: Slides Now Available and Report Coming Soon

Across the events, common themes emerged: the urgency of expanding access to and improving the quality of AI education and research; strengthening collaboration across institutional types and sectors; ensuring research integrity; and aligning AI advancements with societal needs and ethical imperatives — among others.

CRA's AI Education Fellows will publish a report soon that synthesizes the key themes and insights discussed across all sessions, providing the computing research community and stakeholders with a high-level view of the ideas, challenges, and opportunities explored during the event.

Presentation slides from the CRA Summit are now available to the community on the 2025 CRA Summit resources page.

Related Leadership Meetings and Gatherings

The 2025 CRA Summit also served as a hub for additional leadership gatherings:

- **CCC Council Meeting** – Advanced planning for community research visioning and collaborative initiatives.
- **CRA-I Council Meeting** – Discussed priorities for academia–industry partnerships in computing.
- **Future of AI Research in Industry** – Hosted at Dolby Labs, this meeting brought together academic and industry voices to explore shared challenges and opportunities in AI R&D.
- **CRA New Chairs Workshop** – Provided leadership training and peer exchange for new computing department chairs.
- **CRA Affinity Group Meetings** – Convened leaders from CRA academic member units in small groups by institutional type to strengthen community engagement and share insights.
- **CRA Board of Directors Meeting** – Conducted governance business and strategic planning for CRA's future work.

Acknowledgments

CRA gratefully acknowledges the support of the National Science Foundation (NSF) for the CRA Summit on AI Undergraduate Education, as well as the generous sponsors of the CRA Summit on AI Graduate Education and Research: Google, AccessComputing, Center for Inclusive Computing, NCWIT, Sandia National Laboratories, Parkview Health, IEEE-CS, ACM, Dolby Labs, and Microsoft.

Looking Ahead to 2026

The 2026 CRA Summit will take place **July 21-23, 2026**, in Prior Lake, Minnesota — mark your calendars now:

Google **Outlook** **ICS**

Like the traditional agenda of the CRA Conference at Snowbird, the 2026 CRA Summit will feature multiple tracks addressing a broad range of issues in computing research, leadership, and workforce development — offering participants expanded opportunities for cross-sector collaboration and strategic discussion.

We look forward to hosting our computing research community leaders in Minnesota!

Panch's First Post-NSF Public Talk Headlines 2025 CRA Summit on AI Graduate Education and Research

By Matt Hazenbush, Director of Communications with support from the CRA AI Education Fellows: Noah Cowit, DJ Jones, and Yash Tadimalla

The morning of the 2025 CRA Summit on AI Graduate Education and Research in San Francisco began with CRA's COO and Senior Director of Government Affairs **Peter Harsha** sitting down with **Sethuraman "Panch" Panchanathan**, former Director of the National Science Foundation (NSF), for his first public speaking appearance since stepping down from the agency earlier this year.

In a candid and forward-looking conversation, they explored the state of the U.S. research enterprise, the pressures and opportunities facing NSF, and the role of the computing community in shaping the nation's scientific future.

NSF at an Inflection Point

Harsha began by outlining the challenges NSF has faced in recent months — from steep proposed budget cuts, to the disestablishment of advisory committees, to political pressures on higher education and non-profits. Panch described this moment as an "inflection point" for NSF, one that demands not only awareness but action.

While acknowledging the severity of the situation, Panch urged the community to focus on solutions rather than dwelling on problems. "Don't sulk," he said. "This is not the moment to withdraw. This is the moment to hyperengage, hyperpartner, and communicate what we do."

He emphasized the importance of direct engagement with congressional representatives — and of bringing students along to help convey the excitement and value of computing research.

Making the Case Through Storytelling

A recurring theme in the conversation was the need to connect computing research to public priorities and everyday life. Panch noted that transformative technologies — from the glass in smartphone screens to breakthroughs in climate modeling — have roots in NSF-funded work, yet the public often takes them for granted.

He encouraged researchers to "be storytellers," working with communications professionals and students to produce short, accessible videos and narratives that resonate beyond the research community. Such outreach, he said, is critical to sustaining public and political support for federal science investments.

CRA recently partnered with Northeastern University's Khoury College of Computer Sciences on a video that demonstrates this approach in action. The piece highlights how federally funded computing research has transformed the dairy industry — from cow tracking to robotic milking — with Dean Elizabeth Mynatt of Northeastern's Khoury College of Computing Sciences narrating how innovation supported by government investment can impact everyday life in tangible ways.

Partnerships to Drive Progress

Panch also stressed the untapped potential of industry partnerships in advancing U.S. research capacity. While federal R&D investment stands at roughly $88 billion annually, industry invests closer to $250 billion. He pointed to the NSF AI Institutes as a successful model, where more than $240 million of the $540 million total came from agencies and industry partners.

"This is the time to reconfigure ourselves to co-create with industry's playbook," he said, adding that deeper collaboration can help secure resources and accelerate progress in AI, quantum, and other high-impact fields.

Reimagining NSF Processes

The conversation turned to the ways NSF might adapt its processes to be more agile. Panch advocated for simplifying proposal requirements, shortening review timelines, and expanding access for institutions historically underrepresented in federal funding.

He cited the NSF GRANTED initiative, which begins with one-page concept papers, as an example of how NSF can enable more researchers to compete for funding without lowering standards.

"Talent and ideas are everywhere," he said. "It's about elevating people and bringing them along."

A Call for Interdisciplinary Collaboration

Looking ahead, Panch emphasized that computing must work more closely with the social sciences, humanities, and arts to ensure that technological advances align with societal needs and ethical imperatives. For too long, he argued, these connections have been made after the fact, rather than at the outset of research initiatives.

"If we are serious about solving problems — and avoiding those that are emerging — we have to co-create across disciplines from the start," he said.

Closing Perspective

Panch concluded by challenging the community to think not only about what NSF "should" do, but also about how each person can contribute to the agency's mission.

While recognizing the frustrations that can come with budget constraints and shifting political priorities, he expressed confidence that through persistence, partnership, and effective communication, the computing research community can continue to drive innovation and societal benefit.

CRA's Activities and Advocacy

Harsha underscored CRA's role on the frontlines of federal advocacy during what has been one of the most challenging periods for NSF in decades. CRA pushed back against proposed cuts that would have slashed NSF's budget by more than half — including a 65 percent reduction to the CISE directorate — as well as actions that disbanded advisory committees and canceled active peer-reviewed awards.

To mobilize the community, CRA's Government Affairs team issued an Action Alert in May urging researchers to contact Congress and oppose the President's FY26 budget request. The alert provided suggested talking points, phone scripts, and background information to help constituents make the case for safeguarding NSF and the broader U.S. research enterprise.

These efforts have already shown impact: congressional appropriators have signaled their intent to reject most of the Administration's proposed cuts, with the Senate indicating it will reject them outright. Still, Harsha emphasized that there remain many potential hurdles and ongoing community engagement will be critical as the budget process continues.

Coming Soon: 2025 CRA Summit Report

This discussion will be part of a broader report from CRA's AI Education Fellows, synthesizing insights from across all AI-focused Summit sessions. The forthcoming publication will provide the computing research community and stakeholders with a high-level view of the challenges, opportunities, and evolving practices shaping AI education.

CCC at the 2025 CRA Summit: Shaping the Future of AI in Academia and Research

By Catherine Gill, Communications Associate, CCC

Against the backdrop of rapid advances in artificial intelligence (AI) and growing questions about its role in education and research, the 2025 CRA Summit in San Francisco brought together computing leaders from across academia, industry, and government. The Computing Community Consortium (CCC) was at the center of these conversations, with many CCC Council members taking part in thought provoking panels on how AI is reshaping research and graduate education.

Across these sessions, CCC members helped chart a course for how the computing research community can prepare educators, students, and researchers for an AI-driven future.

The week also marked the CCC's Summer Council Meeting, held alongside the CRA Summit as part of the series of co-located events.

Rethinking Graduate Education in the Age of AI

A major theme of the CRA Summit was the need to evolve graduate programs to meet the demands of AI. In a panel titled *The AI Mandate: Rethinking Computing Graduate Education*, three CCC council members — **Rachel Greenstadt** (New York University), **David Jensen** (University of Massachusetts Amherst), and **Adam Wierman** (Caltech) —- joined **Dilma Da Saliva** of the National Science Foundation (NSF) and Texas A&M University to discuss how to integrate AI into existing curricula, both in computing and non-computing graduate programs.

Shaoen Wu (Kennesaw State University) moderated the session, and invited each of the panelists to share their thoughts on the matter from a variety of perspectives.

A central takeaway was the need to shift away from siloed approaches to understanding computing (e.g., software engineering centered degrees). As Jensen pointed out, since large-scale AI models learn rather than being explicitly programmed, graduate curricula must train students in the research methods needed to understand these complex systems. This was echoed by Da Saliva, who noted the challenge of preparing students with different educational backgrounds for AI research.

The panel also highlighted the importance of interdisciplinary research. Greenstadt emphasized incorporating ethical and user experience considerations in this new landscape, while Wierman discussed the difficulty of integrating AI education into non-CS

CCC at the 2025 CRA Summit *(continued)*

curricula. He shared findings from a Caltech study that revealed two key bottlenecks: the slow pace of changing core curricula and a lack of student skills in developing specialized AI software for their research.

How Academia Can Innovate in AI

Another panel titled *Caught Between Moonshots and Manhattan Projects: How Might Computing Researchers Continue to Innovate in AI?* tackled the challenge of how academic researchers can continue to innovate in AI without being overshadowed by industry giants.

The discussion featured two current CCC council members – **Nadya Bliss** (CCC Chair, Arizona State University) and **Bill Regli** (University of Maryland) – as well as one previous member, **Rajmohan Rajaraman** (Northeastern University). The panel also included **James Allan** (CRA Board Chair, and University of Massachusetts Amherst) and **Zachary Ives** (University of Pennsylvania).

Regli kicked off the session by stressing the importance of defining specific, actionable research plans, or "grand challenges", in which academia can have impact. He outlined criteria for these challenges, emphasizing that they should be ambitious, timely, interdisciplinary in nature, and capable of producing measurable outcomes. A key question posed to the panelists by Rajaraman was: what can academia do to distinguish itself from industry? Bliss pointed out the different incentive structures between the two. She argued that academia should focus on research questions that might not yield short-term revenue, as these are the areas industry is less incentivized to pursue. This allows academic researchers to explore more fundamental, long-term problems.

This idea was supported by the other panelists. Allan highlighted collaborative opportunities between academia and industry to give academic researchers access to industry resources and suggested that researchers could conduct studies on smaller models if access to collaborative opportunities is not available. Ives added that academia should target AI research with a large societal impact rather than a product-focused one, focusing on long-term problems that may arise a decade or more from now.

Session panelists and moderators (left to right): Nadya Bliss, Arizona State University and CCC Chair; Zachary Ives, University of Pennsylvania; James Allan, UMass Amherst and CRA Board Chair; Bill Regli, University of Maryland; and Raj Rajaraman, Northeastern University.

CCC Council Meeting

CCC welcomed eight new members during their summer council meeting and held discussions geared towards improving the impact and awareness of CCC activities within the computing community. Council members also discussed visioning priorities for the coming year as well as the upcoming workshops on Drone Computing and Engineering Trustworthy Software with AI.

Shaping What Comes Next

The **2025 CRA Summit** offered a vital forum for the computing research community to examine AI's impact on education and research, and CCC was proud to be at the forefront of these conversations. Many CCC Council members took advantage of the co-location of their Summer Council Meeting with the Summit to contribute expertise and play a leadership role in shaping the dialogue. From rethinking graduate curricula to exploring how academia can innovate alongside industry, these contributions helped surface both challenges and opportunities for the field.

The CCC Council at the 2025 Summer Council Meeting, co-located with the 2025 CRA Summit.

A forthcoming report from CRA's AI Education Fellows will summarize all AI-focused sessions from the Summit — including those featuring CCC members — and distill key insights to guide the computing research community in preparing the next generation for an AI-driven future.

Spotlighting Tomorrow's Innovators: Nominations Now Open for 2025-2026 CRA Outstanding Undergraduate Researcher Awards

CRA
Computing Research
Association

By Sheila Khan, Program Associate, CRA-E

The Computing Research Association (CRA) is proud to help the computing research community honor the next generation of talent. The CRA Outstanding Undergraduate Researcher Awards recognize students in North American colleges and universities who demonstrate exceptional research potential in computing fields.

CRA OUTSTANDING UNDERGRADUATE RESEARCHER AWARD

Nominations open August 25, for the 2025-2026 awards cycle and will close on **Wednesday, October 15, 2025, at 9:00 pm ET**.

These prestigious awards recognize undergraduates who combine strong academic performance and service to their communities with truly outstanding research contributions. While excellence in research is the primary consideration, many past awardees have also distinguished themselves through leadership, creativity, and a commitment to broadening participation in computing.

Award Benefits

Award recipients will receive:

- Up to $1,500 in travel support to attend a research conference of their choice.
- A commemorative award recognizing their achievements.
- The opportunity to directly engage with researchers from Sandia National Laboratories and Lawrence Berkeley National Laboratory (LBNL) through a virtual event, where awardees present their work and connect with leading experts in computing research.

Runners-up, finalists, and honorable mentions earn national recognition for their accomplishments — a distinction widely valued in the computing research community.

Who Can Nominate

All nominations must be submitted by a department chair, head, or designated representative.

- PhD-granting departments may nominate up to four students.
- Non-PhD-granting departments may nominate up to two students.

Students must be enrolled as undergraduates at an accredited North American college or university in Fall 2025 to be eligible. Self-nominations are not permitted.

What to Expect in the Nomination Process

Nominations include a faculty recommendation letter, the student's résumé, research summary, personal statement, and transcript. Full details on what departments and students need to prepare — along with the nomination form — are available here.

Nomination Details

Last year's awards saw record participation, with nominations up 47 percent from the prior year and 40 percent more institutions represented — a testament to the depth of talent in computing research across North America.

Due to the high number of exceptional submissions, CRA doubled the number of awardees and runners-up. Honorees tackled topics ranging from improving AI explainability to advancing bioinformatics, creating assistive technologies, and innovating in computer graphics and algorithms.

You can read about all the 2024-2025 recipients and their research in the January 2025 edition of Computing Research News.

Celebrating Excellence in Computing Research

The award is made possible through the generous support of **Sandia National Laboratories** and **Lawrence Berkeley National Laboratory (LBNL)**, both part of the U.S. Department of Energy's National Laboratory System. Their commitment ensures that promising undergraduate researchers are recognized and supported as they take the next steps in their careers.

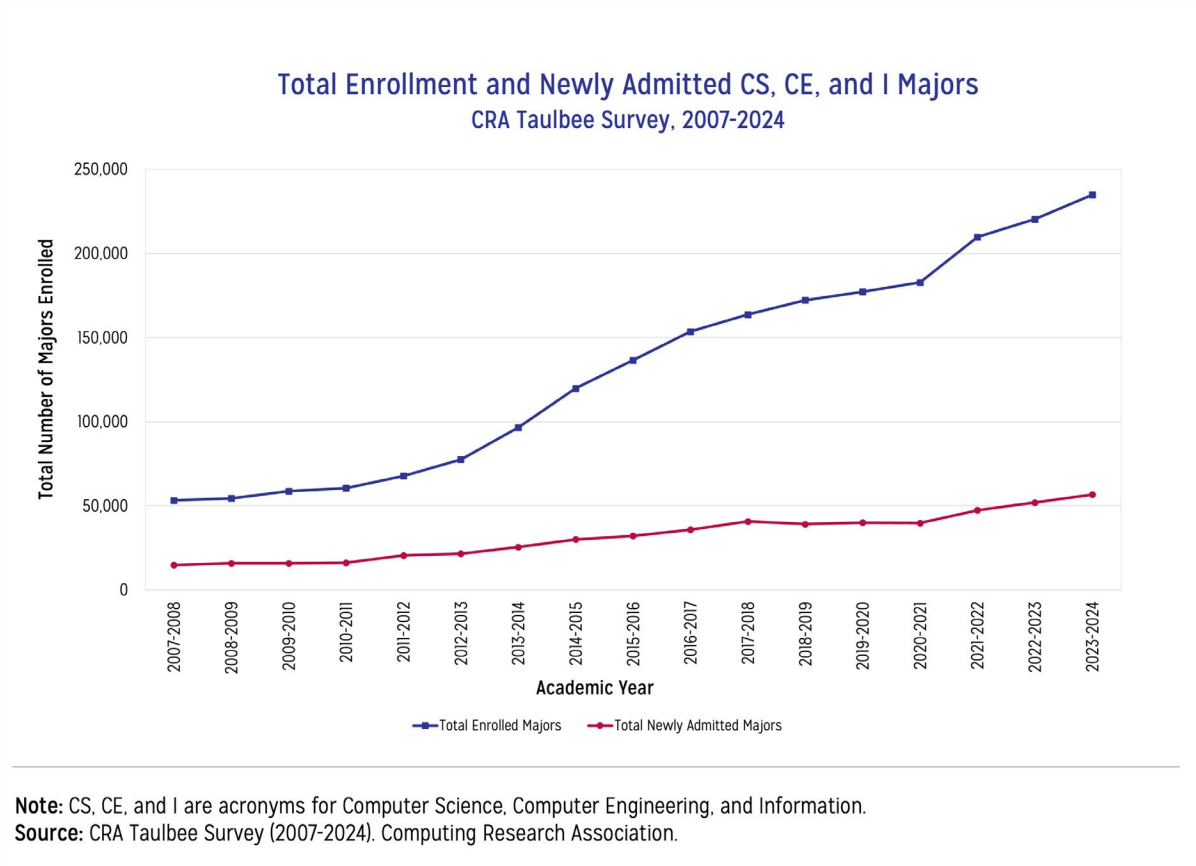
Nominations for the 2025-2026 CRA Outstanding Undergraduate Researcher Awards are due by **Wednesday, October 15, 2025, at 9:00 pm ET**. Full nomination details, including eligibility requirements and submission guidelines, are available on the award webpage.

Read More

Infographic: Computing Bachelor's Enrollment Continues to Grow Even as the Field Evolves

CERP
Computing Research Association
Evaluation

By Jasmine Batten, PhD, Research Associate, CERP



Note: CS, CE, and I are acronyms for Computer Science, Computer Engineering, and Information.
Source: CRA Taulbee Survey (2007-2024). Computing Research Association.

Computing bachelor's enrollment has been on a steady growth trajectory for years, even as the field continues to evolve in response to technological shifts. With the arrival of the AI era and heightened concerns about the job market for new graduates, questions have emerged about whether this growth can be sustained. Against this backdrop, findings from the 2024 CRA Taulbee Survey, covering the 2023-2024 academic year, provide an important perspective: national-level trends show that undergraduate enrollments and new majors in computing remain on the rise.

Undergraduate Enrollment Continues to Grow

Results from the 2024 CRA Taulbee Survey reveal continued growth in undergraduate computing programs. New student enrollment increased by 9.9 percent across Computer Science (CS), Computer Engineering (CE), and Information (I) fields among departments reporting data for both this year and last. This marks a steady return to growth, resuming the upward trend seen before a temporary stall from 2019-2021. For the 2023-2024 academic year, departments that reported data for both this year and last saw a 6.8 percent increase in total computing enrollment across CS, CE, and I fields, and was 6.6 percent for all departments responding to Taulbee this year, as seen in the infographic.

These findings align broadly with external data, such as the National Student Clearinghouse's report for the Fall 2024 academic semester, which noted a 5.5 percent rise in enrollment for computer science and information and support systems undergraduate majors at 4-year institutions compared to the previous year. Meanwhile, a closer look at the rate of increase for total enrollment over time is revealing. The 6.8 percent increase rate this year is higher than each year since 2021-2022, and these rates are returning to pre-pandemic levels.

Infographic *(continued)*

In light of this data, it appears that as of last fall, computing degree programs continued to attract strong interest despite the uncertainty in the job market for new graduates — driven in part by the surge in generative AI adoption by companies, as detailed in Stanford's 2025 AI Index Report.

The rapid evolution of computing and consequently computing education presents new questions for data collection. For instance, it is unclear whether these increases in new majors and enrollment are due to actual growth in traditional CS, CE, and I degrees specifically, or whether institutions are beginning to report enrollment in new AI or other specialized computing degrees under these long-established categories. Future analysis, and potentially changes in data collection, will be crucial to provide the necessary context to these questions as computing education continues to expand and diversify.

The Computing Pipeline Remains Strong, but Questions Remain

The 2024 CRA Taulbee Survey data offers a crucial, and perhaps optimistic, view of computing education: we're seeing sustained increases in new majors (as seen in the red line in the infographic) and overall enrollment (as seen in the blue line in the infographic) in Bachelor's programs across the United States, despite decreases in Bachelor's degree production this year. Our findings from the 2024 CRA Taulbee Survey also indicate that institutions are clearly demonstrating their commitment to addressing growth challenges, particularly through substantial increases in faculty hiring and strategic shifts in departmental space. These trends collectively suggest that the U.S. computing pipeline remains resilient; however, continued proactive support for undergraduate students' persistence will be key to maximizing this potential.

To fully grasp the changing landscape, further data collection and analysis is needed to understand the factors driving these enrollment increases and how they intersect with evolving job market demands. To that end, CRA will soon conduct a pulse survey focused specifically on computing program enrollment trends, providing timely insights into the current state of the field.

The data for this infographic comes from the CRA Taulbee Survey, collected annually every fall since 1974. We gratefully acknowledge the CRA Survey Committee for their expert guidance on the survey's content and reporting.

Expanding the Pipeline: Anita Borg, a Hero and a Fierce Advocate for Women and Technology

By Telle Whitney, CEO, Telle Whitney Consulting, LLC, former CEO, AnitaB.org

It was during the mid-1980s. Anita Borg recently joined the Digital Equipment Corporation's (DEC) Western Research Lab (WRL), where some of the best minds in processor design and operating systems worked. Anita joined with a significant reputation in fault-tolerant computing. She had a PhD from New York University and a strong publication record.

She brought computing credentials and experience, but also charisma and style. She loved getting together with friends to celebrate and was focused on creating strong communities where individuals could harness their potential to grow and thrive.

Anita Borg, 1949 - 2003

Expanding the Pipeline *(continued)*

I first met Anita shortly after moving to Silicon Valley. There was a strong technical community, primarily rooted at Stanford, and through that community, I was invited to a Halloween party in Portola Valley, where I met Anita. Anita arrived at the party, costumed with a feather boa and lots of style. Many of us danced and had fun that night, and my friendship with Anita was cemented. We bonded over our love of technology and creating change. We became fast friends and were committed to building community and transforming the tech world.

Beginnings

Anita was born Anita Borg Naffz on January 17, 1949, in Chicago, Illinois. She grew up in Palatine, Illinois; Kaneohe, Hawaii; and Mukilteo, Washington. She married early, a marriage that didn't last. She left those early days of her life committed to a different future for herself and for the women around her.

In addition to her love of technology, Anita was an adventurer at heart. She loved to ride motorcycles and drive her Porsche Boxster. You could sometimes recognize her as she sped on the windy roads of the Palo Alto mountains where she lived. She loved to kayak and often went river and ocean kayaking. Anita was a licensed pilot, and I'll never forget being her first passenger aboard a Cessna on her Maiden flight over San Francisco.

Research Career and Early Contributions

Anita's research interests were focused on operating systems. Her PhD dissertation from New York University (1981) was titled "Synthesizing an Efficient and Fault-Tolerant Internetwork Protocol." The work was in partnership with her PhD advisor, Gerald Belpaire. She was interested in fault-tolerant computing and network protocols and was a recognized top researcher in this area.

Anita's research kept her busy, but she also became an active Committee on the Status of Women in Computing Research (CRA-W) member and later served on the CRA Board of Directors from 1994 to 2000. Anita's commitment to women's leadership and participation meant she was often at the center of conversations about recognizing and celebrating women researchers' achievements.

The Birth of Systers

In 1987, Anita Borg attended the ACM Symposium on Operating Systems Principles (SOSP), the premier systems conference. A few women attending the conference conversed while in the bathroom and then bonded over dinner. Imagine the banquet at the 1987 conference. According to Anita, there were about 400 conference attendees, of whom about 30 were women. Most of these women decided to have dinner together.

This group launched the Systers mailing list for women in systems, thus the name. Anita volunteered to be the list moderator, a role she called *Her Systers Keeper*. It was the first worldwide community for women working in Computer Science and was an early version of what we now call an online community. The conversations on the list were confidential, and for many members, it was a safe place to discuss challenges at the boundary of technology and gender. Through this experience, Anita recognized the power of community, and the success of Systers led her to approach me about creating a larger gathering for women.

The First Grace Hopper Celebration

Together, Anita and I co-founded and created a conference celebrating the achievements of women computer scientists. The term celebration was key to the launch – we wanted the conference to be fun and impactful. The first Grace Hopper Celebration of Women in Computing conference (GHC) was held in 1994 in Washington, D.C. CRA agreed to be the fiscal sponsor, which was a significant risk for the organization, but also clearly communicated their commitment to inclusion. The first conference included about 500 people, of whom half were students. It is hard to describe the impact of this conference. The National Science Foundation (NSF) provided scholarships to students across the U.S. They believed in the importance of role models and thought the conference was a unique experience for women students. Over the last thirty years, I have met many senior technologists who have described their positive

Expanding the Pipeline *(continued)*

experience at the first GHC and its role in keeping them in the field. For many, attending the conference changed their life. As the conference opening loomed, Anita and I stood on the hotel balcony watching women stream into the hotel. I had never seen so many women in one place. Anita and I looked down as our tribe of people arrived.

The people who spoke at that first conference were all luminaries in the computing field. Three women, Fran Allen, Barbara Liskov, and Shafi Goldwasser, have received the ACM Turing award as of 2025, and all spoke at the first GHC. We also held bird of a feather sessions for people who yearned for a community, including Lesbians and Women of Color. The diversity terminology has changed over the years, but the desire to gather in a safe space has not changed.

In her oral history, Anita talks about overhearing a well-known researcher walking around the conference, mumbling under her breath, "It is so amazing. There is no ego, and it is really different."

Anita's vision of what a community would need to look like helped ensure the success of this conference.

Scaling Impact

Soon after, Anita shifted her research area to online communities and developed a new platform for the Systers community called Mecca. She also challenged herself to create a non-profit that embodied her vision for technical women.

During the 1997 GHC conference, held in San Jose, CA, Anita announced the formation of the Institute for Women and Technology (IWT). Over the next few years, she focused on making her start-up non-profit a reality. Xerox PARC (Palo Alto Research Center), one of the early pioneers in computing research, spearheaded by John Seely Brown at PARC, hired Anita as a researcher with a plan to bring her new ideas to reality.

Anita secured sponsorship support for her brand-new non-profit from three early investors: Microsoft Research, Sun Microsystems, and HP. These three companies supported Anita's early visions, long before programs were much more than ideas.

Over the next few years, as the Grace Hopper Celebration grew steadily and Systers became a crucial online community, Anita became focused on not only women creating technology but also technology being created for women.

Inspired by Purdue's EPIC program, which provided students with service-learning opportunities, IWT created a network of universities that offered the Virtual Development Center (VDC). The VDC programs embodied the idea of service learning. Students worked on technology programs in their local community. She was also inspired to consider global efforts to offer technology to women globally, as social science research shows that women can help advance their entire families.

Her ideas of offering technology for good never came to fruition. The initial service-learning education model didn't scale, but I do not doubt that she would have found a way to make her ideas successful if she had the chance.

Final Years

Just as Anita was growing the momentum and impact of her non-profit, she was diagnosed with brain cancer. She was engaged to Winfried Wilke, an IBM researcher, who was also a pilot. She and Winfried decided to get married the weekend after she was diagnosed. The wedding was held at her home in the mountains of Palo Alto and we happily celebrated their union.

The surgery was quite successful given her diagnosis. After cancer treatment, she returned to non-profit work. She attended the 2000 GHC on Cape Cod and the 2002 conference in Vancouver. For many people, this was the last time they saw Anita.

The surgery bought her time, but she knew it was limited. She and Winfried traveled, and she prioritized time with close friends.

Expanding the Pipeline *(continued)*

But she wasn't sure what to do with her fledgling non-profit. She had recruited an extraordinary board, including Rick Rashid, the founder of Microsoft Research, Maria Klawe, who at the time was Dean of Engineering at Princeton, and Bill Wulf, the president of the National Academy of Engineering (NAE), among others. The board worked with her to find a new CEO and asked me to step into the role. The board didn't believe the organization would survive the loss of Anita, but they wanted to try. Anita's other best friend, Maria, agreed to chair the board if I agreed to be CEO. Maria and I believed that between the two of us, we could channel Anita.

Anita's health declined, and ultimately, she passed away in April of 2003.

An Enduring Legacy

Few of us have the opportunity to have the kind of impact that Anita had on the world. She truly believed that women belong at the table creating technology, and everything she did helped make it a reality. She recruited many women and men to participate in the vision she articulated. As a role model, she encouraged others, including me. As an educator, she led many universities to be more inclusive for all students. As a friend, she challenged me and others to be inclusive and to think bigger. Anita and I went on a backpacking trip every year, where we explored the California Sierras, breathed the mountain air, and took in the views. These adventures set the stage for our most profound conversations and ideas about what was possible.

Today, Anita lives on in the lives of the organization she founded, AnitaB.org, and in many of her closest friends. She was one of the earliest to discuss the importance of technology and inclusion.

The mission of IWT represents her life ambitions.

We are dedicated to increasing the participation of women in technology and increasing the positive impact of technology on the world's women through research, experimentation, action, and advocacy.

This was Anita.

About the Author

Telle Whitney is a senior executive leader, an entrepreneur, an author, and a recognized advocate and expert on women and technology. She has over 30 years of leadership experience and was named one of Fast Company's Most Influential Women in Technology. She is a frequent speaker on the topic of Women and Technology. She is an accomplished technologist who spent twenty years in the semiconductor industry in Silicon Valley. Telle has been called "a pioneer for the promotion of women technologists" and "one of the most inspirational leaders I have ever known."

Telle co-founded the Grace Hopper Celebration of Women in Computing Conference in 1994 and was CEO of the non-profit Anita Borg Institute from 2002 to September 2017. She transformed the Institute into a recognized world leader for women and technology.

Before that, she served in leadership positions at several semiconductor startups.

She is the author of *Rebooting Tech Culture: How to Ignite Innovation and Build Organizations Where Everyone Can Thrive*, which explores the practices that executives use to create organizational cultures that are both innovative and inclusive.

She has won numerous awards, including the ACM Distinguished Service Award, an honorary degree from CMU, and an honorary membership of IEEE. In 2024, the REC Foundation recognized her as a STEM Hero. She co-founded the National Center for Women and Information Technology (NCWIT). In 2022, she was elected to the National Academy of Engineering.

Telle serves on the board of AI4All, CMD-IT, and Power and Systems and consults for numerous technology organizations.

Telle holds a PhD and MS in Computer Science from the California Institute of Technology and a BS in Computer Science from the University of Utah.

New CRA-I Report: Best Practices and Pitfalls in Faculty Dual Appointments Between Academia and Industry

CRA-I
Computing Research Association
Industry

By Helen Wright, Manager, CRA-I

The Computing Research Association – Industry (CRA-I) is pleased to announce the release of a new report: Dual Appointments between Academia and Industry: Best Practices and Pitfalls.

Authored by **Ron Brachman** (Cornell Tech; Schmidt Sciences), **Eve Schooler** (University of Oxford), and **Helen Wright** (CRA), the report explores the growing trend of dual appointments—structured, recurring roles in which faculty formally divide their time between a university and a company. As more faculty pursue careers that span both academia and industry, these arrangements have become increasingly common and significantly more complex.

This report offers a comprehensive look at the evolving landscape of dual appointments, drawing from community surveys, 20+ in-depth interviews, prior work in the space, and insights gathered during the 2024 CRA Conference at Snowbird. It is designed to help institutions, companies, and individuals navigate this emerging model more successfully by surfacing key challenges, highlighting shared benefits, and offering a set of best practices based on real-world experiences.

Unlike traditional one-day-a-week consulting, modern dual appointments involve significant time commitments in both settings, such as 80/20 or 50/50 splits. When structured thoughtfully, these arrangements can yield substantial benefits:

- **For universities**, they can boost faculty satisfaction and retention, enrich research relevance, and create valuable opportunities for students.
- **For companies**, they provide access to cutting-edge research, strengthen talent pipelines, and enhance innovation.
- **For faculty members**, they open new career trajectories, increase compensation, and offer exposure to diverse research and development environments.

However, the report also outlines the unique challenges these arrangements pose. Universities must grapple with issues such as intellectual property rights, equitable workload distribution, and managing impacts on students and departments. Companies must carefully address part-time employee expectations, performance review standards, and integration with full-time staff. For dual appointees themselves, successfully navigating the demands of both roles requires careful attention to workload, compliance, and long-term career planning.

To help institutions and individuals address these complexities, the report identifies a set of best practices including:

- Clear, formalized documentation of expectations and responsibilities
- Transparent policies on workload and conflict-of-interest management
- Flexible yet structured arrangements, reviewed regularly
- Limitations on eligibility, such as restricting dual roles to tenured faculty

It also cautions against common pitfalls, such as neglecting student needs, overlooking IP ownership issues, failing to support a faculty member's return to full-time university duties, or underestimating the challenges of dual workplace cultures.

Ultimately, this report underscores the importance of clear communication, equitable policies, and proactive planning. As dual appointments become more common, they present an exciting opportunity to strengthen academia-industry collaboration — when approached with transparency and care.

Read the Report

CS vs. AI: Degrees of Debate at the 2025 CRA Summit on AI Undergraduate Educatio

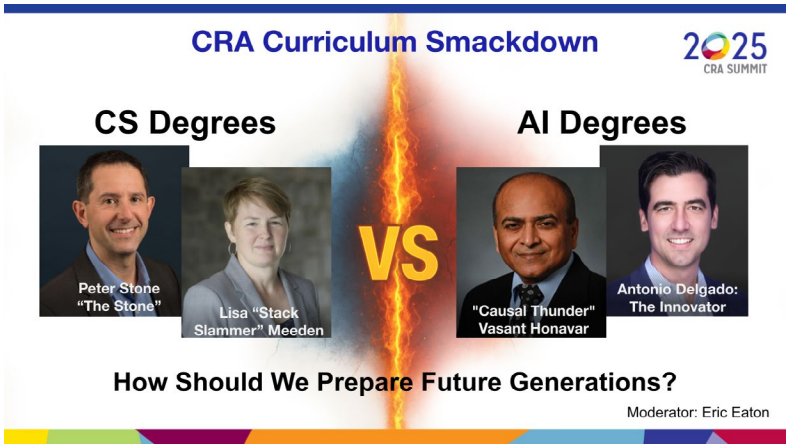
By Matt Hazenbush, Director of Communications with support from the CRA AI Education Fellows: Noah Cowit, Stephanie T. Jones, and Yash Tadimalla

At the 2025 CRA Summit in San Francisco, one of the week's most anticipated events traded the typical panel format for a lively "academic smackdown," tackling a provocative question: should artificial intelligence (AI) be taught as a specialization within computer science, or offered as a standalone degree?

Moderator **Eric Eaton** (University of Pennsylvania) divided his panelists into two sides, each led by seasoned educators from different types of institutions. **Team CS – Peter Stone** (The University of Texas at Austin) and **Lisa Meeden** (Swarthmore College) – argued for building AI expertise on top of a solid computer science foundation. **Team AI – Vasant Honavar** (Pennsylvania State University) and **Antonio Delgado** (Miami Dade College) – made the case for creating AI degrees with their own curriculum, structure, and identity.

Team CS: Why AI Belongs Inside C omputer Science

Stone and Meeden emphasized that AI innovations rest on bedrock CS concepts – data structures, algorithms, systems architecture – that are essential for understanding and advancing the field. Stone argued that without this grounding, graduates risk lacking the technical depth to adapt as AI technologies change. Meeden pointed out that breakthroughs like GPUs and transformers emerged from core CS research, and warned against reshaping degree programs around a field that has seen past hype cycles.



From their perspective, the most resilient approach is a CS degree with room for AI-focused electives and concentrations, allowing programs to evolve without wholesale redesigns. This model, they argued, protects long-term educational value while still offering students pathways to specialize.

Team AI: Why AI Deserves Its Own Degree

Honavar and Delgado challenged the idea that AI is simply a subset of CS, describing it instead as a discipline with deeper historical roots and broader scope. Honavar noted that AI's intellectual lineage predates computer science, pointing to Turing's early work on the nature of intelligence. He argued that the dreams of AI are what led to the birth of CS; AI is not a subfield of CS, AI is the mother of CS.

Delgado connected the argument to present-day realities, highlighting how AI is already automating coding, designing chips, and reshaping the tech workforce. At Miami Dade College, removing advanced math prerequisites from AI courses led to a surge of over 2,000 students – more than 40 percent of them women – demonstrating how targeted AI programs can broaden participation. They argued that a dedicated AI degree could be built to integrate ethics, social sciences, and human-centered design from the start, ensuring graduates are prepared for AI's societal impact as well as its technical challenges.

Common Ground and Continuing Questions

Despite the competitive framing, both sides found agreement on several priorities: expanding AI literacy for all students, introducing AI concepts early in the undergraduate journey, and weaving ethical considerations throughout the curriculum rather than isolating them in a single class.

CS vs. AI *(continued)*

Audience questions pushed the panelists to address how an AI degree might keep pace with a rapidly evolving field, whether undergraduate AI programs would meet workforce needs, and how to serve the growing demand for AI skills across disciplines. In the closing poll, the audience remained divided — roughly half favored keeping AI within CS, a third preferred giving AI and CS equal weight, and a smaller portion supported a fully separate AI degree.

While no consensus emerged, the lively exchange underscored a shared goal: designing degree programs that prepare graduates to navigate — and shape — a future where AI is central to technology, industry, and society.

Panelists and moderator (left to right): Peter Stone (University of Texas at Austin); Lisa Meeden, Swarthmore College; Vasant Honavar (Penn State University); Antonio Delgado (Miami Dade College); and Eric Eaton (University of Pennsylvania).

Coming Soon: 2025 CRA Summit Report

CRA's AI Education Fellows will soon publish a comprehensive report synthesizing the key themes and insights from this debate and all other 2025 CRA Summit sessions. The report will offer the computing research community and stakeholders a high-level view of the ideas, challenges, and opportunities explored throughout the event.

Submissions Now Open for 2025 CRA Academic Member Book

By Elora Daniels, Communications Associate

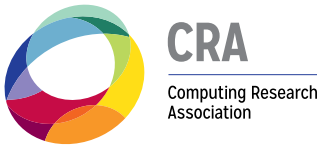
Every year, the Computing Research Association (CRA) invites our academic member units to highlight the great work being done at their institutions. With the start of a new school year comes the opportunity to highlight this year's achievements! Submissions for the 2025 CRA Academic Member Book are now open.

2025 CRA Academic Member Book Submissions

This annual publication highlights the achievements, initiatives, and innovations being made by CRA academic member units. Each unit is invited to submit a one-page PDF showcasing recent accomplishments, research highlights, faculty achievements, and/or program milestones. **Submissions for the 2025 Academic Member Book are due by September 22.**

Please note, **this is a CRA membership benefit**. Only academic units that have renewed or submitted their CRA membership for the 2026 membership year will be featured in this year's Member Book. Interested in becoming a CRA Academic Member? Start the process with our Membership Request Form.

Undergrads Are Interested in Exploring Research – Here's How UR2PhD Can Help You Support Them



By Julia Sepulveda, Senior Program Associate, CRA-E

This summer, CRA's UR2PhD program piloted an asynchronous version of our Undergraduate Research Training Course (URTC), titled the Pre-Research Experience Course. We received an overwhelming amount of interest from students – with more than 500 students signing up for more information over the course of three weeks. This signals to our team that there are many students who are interested in exploring research and participating in an introductory course.

During the fall, our team will be re-offering the Undergraduate Research Training Course. This virtual, synchronous course, intends to offer groups of 2-4 undergraduate students the opportunity to learn and practice critical research skills, like how to read a research paper, how to conduct a literature search, and how to present data.

How Can You Help?

UR2PhD offers the infrastructure for students to obtain the skills they need to be able to take on their first research experience, but we need more faculty to offer research experiences!

Faculty can help students by serving as a mentor and providing them with technical guidance as students embark on their first project. Faculty should also plan to provide either pay or course credit to mentees.

How Can Folks Get Involved in URTC?

There are two primary entry paths into the course: institutional partnerships and community applications.

If a student is attending an institutional partner school, they should inquire with their local coordinator about how they can get involved. Students at institutional partners are frequently matched with their teammates and assigned a mentor.

If a student does not attend an institutional partner school, they should apply directly to be considered for the course. Before applying, students should work to identify a research team, mentor, and project.

How Does the URTC Benefit Students and Faculty?

The course provides students with the opportunity to connect with other first-time researchers, as they practice foundational skills. It provides a structured and welcoming environment for students to learn more about the research process.

For faculty, the course allows faculty to save time. It enables them to spend less time teaching basic skills and more time focusing on the technical aspects of their projects.

Additionally, students who pass the course and their mentors may be eligible to apply for UR2PhD funding opportunities, including: technical conference travel funding and REU funding.

Where Can I Learn More About UR2PhD?

The UR2PhD website is the best resource for gaining a better understanding of our program offerings and benefits:

Learn More

CCC Releases a New Whitepaper on Envisioning Possible Futures for AI Research

CCC
Computing Community Consortium
Catalyst

By Catherine Gill, Communications Associate, CCC

The world of AI is evolving quickly, and while the current progress in areas such as large language models is amazing, many are already looking toward the future.

"The current paradigm, while incredibly successful, is not the endpoint," says **David Jensen**, Professor of Computer Science at the University of Massachusetts Amherst. "For AI to continue to progress over the long term, we need researchers to be actively exploring along a broad front so that we can enable the *next* major revolution in AI."

A new whitepaper from the Computing Community Consortium (CCC), co-authored by Jensen, Envisioning Possible Futures for AI Research**,** argues exactly that.

The whitepaper identifies six potential future paradigms, including:

- **Neuro-Symbolic AI:** Combining pattern learning with logical reasoning.
- **Neuromorphic AI:** Mimicking brain structure for highly efficient AI.
- **Embodied AI:** AI systems with a physical presence, learning in the real world.

The paper emphasizes that exploring high-risk, long-term research areas such as these is crucial for sustained AI progress. As **Holly Yanco**, whitepaper co-author and Professor at the University of Massachusetts Lowell, puts it, "The future of AI is not about a single path, but about exploring a multitude of promising avenues simultaneously."

Read the full whitepaper to hear about all six research futures the authors identified and learn more about these fascinating possibilities.

CRA Hosts Tisdale Fellow for Summer

CRA
Computing Research Association
Government Affairs

By Brian Reilly, 2025 CRA Government Affairs Tisdale Fellow

For more than a decade, the Computing Research Association (CRA) has had the honor of hosting a summer Eben Tisdale Fellow. The Tisdale Fellowship typically places an undergraduate student at a high-tech company, firm, or trade association in Washington to learn the intricacies of technology policy. Additionally, they take two class credits at George Mason University and attend briefings at institutions such as the U.S. Capitol, Department of State, World Bank, and Federal Reserve.

This summer, CRA was pleased to welcome Brian Reilly; he spent the summer shadowing Brian Mosley, Associate Director in CRA's Office of Government Affairs.

As my summer as a Tisdale Fellow at CRA comes to a close, I'm reflecting on what an energizing and rewarding experience this has been. I came to D.C. with a passion for tech policy and left with a deeper understanding of how thoughtful public policy can shape the future of research, innovation, and equity in computing.

2025 CRA Tisdale Fellow Brian Reilly, an undergraduate at Boston College.

Tisdale Fellow *(continued)*

This summer, I authored a policy blog post covering the House's FY26 Energy and Water Development Appropriations Bill, analyzing its implications for federal investments in scientific research. I also worked on publicizing a call from House Democrats on the Science Committee for stories about grant cancellations, highlighting how unpredictable funding can affect researchers and their work across the country.

Outside of the office, I've loved learning from the dynamic policy community here and engaging with issues at the intersection of technology, governance, and education. I'm especially grateful to Brian Mosley for being both a mentor and a friend throughout this fellowship, his guidance, encouragement, and patience made a lasting impact. Thank you also to everyone at CRA for your warmth and generosity in welcoming me this summer.

I'm a rising junior at Boston College, majoring in Management with a strong interest in finance and public policy. I'm also a first-generation college student, a study abroad ambassador, and a student government leader. My time in Washington has reinforced my commitment to building a career that bridges public and private sector innovation. I'm now excited to begin the next chapter of my academic journey studying abroad at the London School of Economics for my junior year.

Help Shape the Next CRA P2P Survey on Computing Education

By Helen Wright, Manager, CRA-I

How well prepared for real-world jobs are today's computing graduates?

The Computing Research Association – Industry (CRA-I) Practitioner to Professor (P2P) Survey is our biannual effort to gather direct feedback from computing professionals about how undergraduate computer science programs are doing. The goal: help align CS education with workforce needs while maintaining the depth and rigor that support long-term career success.

The first CRA P2P Survey, released in 2024, gathered over 1,000 responses from professionals across roles, sectors, and experience levels. We learned that industry values strong fundamentals in algorithms, architecture, theory, and systems; that programming is best taught as a tool for problem-solving, not an end in itself; that math and statistics are essential foundations for fields like AI; and that soft skills—communication, teamwork, adaptability—remain a major gap. Read the full 2024 report here.

Access the Report

Now we're preparing the Spring 2026 CRA P2P Survey, and we want your input before it launches. Your feedback will help ensure that the next survey digs into the issues that matter most to you and your peers.

How to Participate

- **Step 1:** Share your comments, edits, and suggestions directly in this form.
- **Step 2:** Submit your response so we can incorporate your input before the survey launches.

Your perspective is critical. The CRA P2P Survey only works if it reflects the priorities of the community it serves — people who work with, hire, teach, and mentor new computing graduates every day. Help us make the 2026 survey even more impactful.

Grad Cohort Workshop: Building Skills, Connections, and Confidence for Graduate Students in Computing

CRA-WP
Computing Research Association
Widening Participation

By Lauren Lashlee, Senior Program Associate, CRA-WP

The CRA-WP Grad Cohort Workshop brings together graduate students in computing from across North America for three days of mentoring, skill-building, and community. It's an unparalleled opportunity to learn from senior researchers in academia, industry, and government labs, connect with peers, and develop strategies for navigating graduate school and preparing for future career paths.

Be the First to Know About Our 2026 Workshop

We'll soon be announcing the date and location of our 2026 event in a new unified format — and spots are limited. Over the past two years, we have co-located our Grad Cohort for Women and Grad Cohort for IDEALS workshops. Now, we're combining the best of both into a single model that celebrates and supports all graduate students in computing research. Sign up for updates to be the first to receive event details and application information, giving you a head start on preparing a standout application.

Sign Up For Updates

This transformative workshop is designed to help you maximize your academic and professional opportunities. Whether you're just starting your graduate studies or advancing toward your next career step, you'll gain insights from sessions, panels, and one-on-one mentoring tailored to the unique challenges and opportunities of a graduate career in computing.

Why Attend?

With more than 2,000 participants to date, the Grad Cohort Workshop has a proven record of impact. Attendees consistently highlight how the event has helped them develop their research vision, strengthen their professional skills, and connect with a network of peers and mentors who understand the graduate experience in computing.

The workshop is more than just another conference — it's a three-day experience focused on you and your personal development through human connection and collaboration. From the moment you check in, you're welcomed into a supportive community that can help reduce isolation and increase your sense of belonging.

Tips from Past Participants

To help you make the most of your Grad Cohort Workshop experience, we spoke with past attendees **Ziying Jia** (University of Texas, Arlington), **Meritxell Vila Minana** (Indiana University), **Wiktoria Zielinska** (University of Illinois, Urbana Champaign), and **Dora Balog** (Boston University). Here's their advice for getting the most from your time at the event.

Grad Cohort Workshop *(continued)*

1. Preparation Is Key

"Prepare questions and do some background reading on the main topics — it makes it much easier to engage with speakers and get more value out of each session," said Ziying. Meritxell added, "Come prepared, but open. Know what you want to learn or who you want to connect with, but be open to the unexpected."

2. Networking Takes Practice

"It feels strange at first to introduce yourself with an underlying goal, but it gets easier with practice," said Meritxell. "Talk to people, even if it's awkward — most attendees are just as eager to make connections as you are." Ziying recommended joining poster sessions and lunch groups "for deeper connections and more intimate discussions." Wiktoria noted, "You get out what you put in. Some of the best networking happened during quieter moments like between sessions or in smaller groups."

3. Work on Your Elevator Pitch

"Practice a short and clear way of explaining your work and your goals," advised Meritxell. For Dora, presenting her research was especially valuable: "It pushed me to reflect on the broader picture of my work and communicate it clearly to a large audience."

4. Engage Actively and Be Present

"Review the agenda ahead of time and choose sessions that will have the most impact on your academic and professional journey," said Wiktoria. "Ask questions, strike up conversations — most attendees are just as eager to connect as you are."

The Lasting Impact

Participants frequently leave the Grad Cohort Workshop with new skills, a stronger sense of purpose, and tangible resources they can put to use immediately. Dora shared, "As a first-time participant, the workshop offered me a wealth of powerful tools and resources that have already helped me shape my professional development in meaningful ways."

Raoa Faria Karim from University of Texas, Arlington summed it up: "I am more committed than ever to embracing every opportunity that will help me grow as a researcher and as a person."

We'll be sharing the date and location of the 2026 event soon. If you want to give yourself the best shot at securing a spot, sign up today **to be among the first to receive details** when applications open. Your future self — and your career — will thank you.

Sign Up for Notifications

Grad Cohort Workshop participant Raoa Faria Karim (left) with organizer Maria Gini (University of Minnesota).

Teaching and Testing in the AI Era: Rethinking Student Evaluation at the 2025 CRA Summit

By Matt Hazenbush, Director of Communications with support from the CRA AI Education Fellows: Noah Cowit, Stephanie T. Jones, and Yash Tadimalla

At the 2025 CRA Summit on AI Undergraduate Education in San Francisco, a thought-provoking panel session tackled a question on the minds of educators everywhere: with generative AI tools becoming as ubiquitous as web browsers, how can colleges and universities ensure that students are actually learning — and that faculty are equipped to teach — in this new reality?

Session panelists (left to right): Darnell Moore, (Amazon); Joanna Millunchick (Indiana University); and Jasmine Jones (Berea College).

The panel, *Student Evaluation and Instructional Staffing: Current Challenges and New Models to Prepare AI-Enabled Students for Professional Success*, explored the opportunities and risks AI presents for both the classroom and the curriculum. Moderator **Chad Jenkins** (University of Michigan) framed the topic of the session as a multi-stakeholder challenge, touching on implications for faculty, students, industry, and academic leadership.

Balancing Innovation and Fundamentals

From a policy and program design standpoint, **Joanna Millunchick** (Indiana University) emphasized that AI is here to stay, and faculty must learn how to integrate it into their teaching. Drawing from the Luddy School's cross-disciplinary approach, she suggested that AI could serve as a personalized teaching assistant while also challenging traditional course structures — going so far as to propose rethinking the standard math progression in K–12 to better prepare students for modern computing.

Darnell Moore (Amazon) brought an industry perspective, sharing how Amazon's academic partnerships aim to accelerate AI innovation through research collaborations, faculty development opportunities, and workforce outreach. He described the rollout of the Astro SDK, which offers access to robotics hardware and software stacks for students and faculty to experiment with new AI-driven ideas.

From a liberal arts and working college perspective, **Jasmine Jones** (Berea College) discussed the varied faculty reactions to AI adoption — from anxiety to resistance to optimism — and the importance of shared governance in making curricular changes. She noted the strain on TAs who see incoming students struggling with basic coding skills, potentially due to over-reliance on AI tools.

Dan Garcia (University of California, Berkeley) advocated for carefully staged integration of AI into coursework, suggesting restrictions in early courses to preserve foundational skill development. He repeated Mitch Resnick's salient quote from a SIGCSE TS 2026 panel: "You can either teach your kid to play the piano, or play the stereo" — contrasting learning to play the piano as developing foundational computing principles, with playing the stereo as letting AI do the thinking for you. This analogy opened lively discussion and framing from Millunchick who instead likened AI-integrated computing learning to scaffolded learning within meal-kit services like Blue Apron, which balance guidance with skill-building.

Key Challenges in Assessment

Audience questions pushed the panel to address whether AI access is pressuring institutions to "water down" the curriculum. Several panelists argued the opposite: industry expectations are rising, and students need more — not less — rigorous preparation.

Teaching and Testing in the AI Era *(continued)*

Ideas ranged from rethinking grading and increasing experiential learning opportunities to adopting new assessment methods that go beyond traditional exams.

Panelists also reflected on the scalability — or lack thereof — of oral exams, the potential to assess AI learning through scaffolded assignments that require higher-level cognitive tasks, and the risks of students bypassing essential debugging and problem-solving practice. Alternative approaches mentioned included project-based evaluation, service learning, participatory course design, and even "ungrading" models.

In the session's final moments, panelists agreed that human-to-human interaction remains vital, particularly in teaching higher-level thinking skills. The challenge, they concluded, is helping instructors adapt their pedagogy so that AI becomes a tool for scaffolding learning rather than replacing it.

Joanna Millunchick (center), Dean of Indiana University's Luddy School of Informatics, Computing, and Engineering, speaks during the panel discussion.

Coming Soon: 2025 CRA Summit Report

This discussion will be part of a broader report from CRA's AI Education Fellows, synthesizing insights from across all AI-focused Summit sessions. The forthcoming publication will provide the computing research community and stakeholders with a high-level view of the challenges, opportunities, and evolving practices shaping AI education.

Relive the 2025 CCC Computing Futures Symposium — All Recordings Now Online

CCC
Computing Community Consortium
Catalyst

By Catherine Gill, Communications Associate, CCC

The Computing Research Association's Computing Community Consortium (CCC) brought together leaders from academia, industry, and government for its 2025 Computing Futures Symposium, held May 15-16 in Washington, D.C. The two-day event spotlighted transformative opportunities and urgent challenges in computing, with discussions spanning AI, robotics, healthcare, cybersecurity, and more.

Now, the full set of keynote and panel recordings is available on CRA's YouTube channel — providing the broader community a chance to experience the insights, debates, and visions for the next era of technological discovery. Whether you're interested in the latest advances in generative AI, the future of computing innovation, or the role of government–industry collaboration, these sessions offer valuable perspectives from leading voices shaping the field.

Recordings *(continued)*

Check out the sessions below:

Keynotes

- Government, University, and Industry Cooperation: The NVIDIA Story with Bill Dally (Supercut)
- Computing Futures Symposium: Endless Frontier Interrupted: US Research Leadership on the Brink with Beth Mynatt (Full Recording)
- Computing Futures Symposium: The Rise of Generative and Agentic AI and its Future in the Enterprise with Lisa Amini (Full Recording)

Panels

- Computing Futures Symposium: Shaping the Future of Computing and Healthcare (Full Recording)
- Computing Futures Symposium: Future of AI Horizons (Full Recording)
- Computing Futures Symposium: Future of Computing Innovation (Full Recording)
- Computing Futures Symposium: Future of Cybersecurity (Full Recording)
- Computing Futures Symposium: Future of Robotics and Autonomy (Full Recording)

CRA-E Welcomes Two New Board Members

By Julia Sepulveda, Senior Program Associate, CRA-E

The CRA Education Committee (CRA-E) is excited to announce that **Tijana Milenkovic** (University of Notre Dame) and **Joshua San Miguel** (University of Wisconsin-Madison) have joined the CRA-E Board of Directors. We are happy that they'll be leveraging their talents to help support and advocate for undergraduate research education, contributing to our mission of addressing society's need for a continuous supply of talented and well-educated computing researchers.

The CRA-E board would also like to thank **Monica Anderson** (The University of Alabama) and **Steve Swanson** (The University of California, San Diego), who are moving on from the board. In particular, we are grateful for Monica's support with the Undergraduate Research Faculty Mentoring Awards, Outstanding Undergraduate Researcher Awards, and our Graduate Fellow selection. We are also grateful for Steve's leadership on the Outstanding Undergraduate Researcher Awards and the re-design and re-organization of the Student PAthways to Research (SPARC) site. CRA-E appreciates both Monica and Steve's years of service and wishes them well with their next endeavors!

CRA-E is also grateful for **Alejandro Velasco Dimante**'s two years of service as a CRA-E Grad Fellow. Throughout his term, he helped advocate for and highlight undergraduate research.

New CRA-E Board Members *(continued)*

Tijana Milenkovic

Professor, Computer Science and Engineering at the University of Notre Dame

Tijana Milenkovic's research is in network science and computational biology, aiming to develop novel algorithms for mining complex -omics data with applications to e.g., aging and protein folding. She won NSF CAREER and AFOSR Young Investigator Program research awards, among others. She has served on the Board of Directors of the International Society for Computational Biology (ISCB) since 2020. She was an active organizer of the flagship Network Biology (NetBio) meeting at the biggest computational biology conference (ISMB/ECCB) during 2017-2023. She served as a Proceedings Chair for ISMB 2024 and ISMB/ECCB 2025; as an illustration, in 2025, this meant overseeing the review process of 395 papers by 23 Area Chairs and 400+ Program Committee members.

Joshua San Miguel

Associate Professor, Electrical and Computer Engineering at the University of Wisconsin-Madison

Josh San Miguel is an Associate Professor in the Department of Electrical and Computer Engineering at the University of Wisconsin-Madison. His research spans broadly across topics in computer architecture and systems, garnering several paper awards including IEEE Micro Top Picks. He is a recipient of the NSF CAREER Award and Benjamin Smith Reynolds Award for Excellence in Teaching. He is an organizer of the annual Undergraduate Computer Architecture Mentoring Workshop and serves on the advisory committee for the Wisconsin Sloan Center for Systemic Change.

In Case You Missed It (ICYMI) Items from Across CRA: July and August 2025

CRA
Computing Research Association

By Matt Hazenbush, Director of Communications

Each month, CRA's "In Case You Missed It (ICYMI)" roundup highlights notable news, updates, and announcements from across the organization. From policy developments to program highlights, here's what you need to know from July and early August 2025.

CRA Releases Updated Best Practices for Evaluating Computing Researchers

CRA has published Unique Considerations for Evaluating Computing Researchers, an updated best practices document offering guidance on assessing contributions in computing research for hiring, promotion, and tenure decisions. Building on CRA's original 1999 memo, the update reflects changes in the field — including interdisciplinary collaborations, open-source software, and new dissemination models — and provides a framework for fairly evaluating research impact across diverse subfields. Read more here.

CRA Issues Statement on President's Executive Order on Federal Grants

CRA strongly opposes the President's new executive order on federal grants, warning it threatens to replace merit-based peer review with political oversight, destabilize the research enterprise, and undermine U.S. leadership in critical technologies. The statement urges the administration to rescind the order and work with the scientific community to strengthen the research partnership between government and academia. Read more here.

Trump Administration Releases AI Action Plan

The Trump Administration has released "Winning the AI Race: America's AI Action Plan," outlining priorities across accelerating innovation, building AI infrastructure, and leading in global AI policy. The plan highlights roles for NSF, NIST, and the computing research community in advancing AI, but CRA emphasizes that meaningful progress will require matching rhetoric with the resources needed to keep the U.S. at the forefront of AI innovation. Read more here.

CRA Welcomes Three Early Career Scholars as CRA AI Education Fellows

CRA has welcomed to its team three early career scholars — Noah Cowit, Stephanie T. Jones, and Yash Tadimalla — as CRA AI Education Fellows. Over the next year, they will contribute to national initiatives advancing AI education and frameworks for trustworthy AI, including NSF LEVEL UP AI, the NAIRR Pilot Expansion Conferences, and the NAIRR Pilot Expansion AI EDU RCN. Funded through the NSF-supported CIFellows Program, this unique fellowship placement enables the scholars to shape AI education at a pivotal moment for the field. Read more here.

CRA and Microsoft Announce Inaugural Cohort of CRA Trustworthy AI Research Fellows

CRA, in partnership with Microsoft, has named nine early career researchers to the inaugural CRA Trustworthy AI Research Fellowship for Early Career Scholars. The Fellows bring interdisciplinary expertise in accessibility, equity, AI ethics, human-computer interaction, and more, and will spend the next 15 months developing a national Trustworthy AI lexicon and framework, leading initiatives at partner institutions, and advancing research that integrates ethical and societal considerations into AI development. Read more here.

CRA Welcomes New Members and Officers to Its Board of Directors

On July 1, CRA welcomed a new cohort of board members and officers. New board members Carla Brodley, Mona Diab, Mark Hill, and Soha Hassoun join returning board members Maria Gini, Divesh Srivastava, and Ben Zorn in guiding the organization's mission. James Allan (Chair), Mary Hall (Vice Chair), Ran Libeskind-Hadas (Secretary), and Ming Lin (Treasurer) begin new officer roles, with Nancy Amato concluding her term as Chair and continuing as Past Board Chair. Read the full announcement here.

Industry Researchers Urge Robust Funding for Federal Research Agencies

CRA coordinated a letter from computing and IT researchers across industry urging Congress to provide robust, stable funding for NSF, NIST, and the DOE Office of Science in the FY2026 budget. The letter underscores that federal investment in computing research underpins U.S. technological leadership, economic competitiveness, and national security. Read the full story here.

FY26 Appropriations Update: House Appropriators Provide Slight Increase for Office of Science but Deep Cuts to ARPA-E

The House Energy and Water Development bill proposes a 1.9 percent increase for the DOE Office of Science and an 8.8 percent boost for ASCR, while cutting ARPA-E funding by 24 percent. The bill also pauses changes to indirect cost rates and includes a broad prohibition on DOE DEI initiatives. Read more here.

FY26 Appropriations Update: Senate Releases Funding Plans for NSF, NIST, and NASA; Recommends Mostly Flat Funding

The Senate Commerce, Justice, Science bill holds NSF, NIST, and NASA funding largely steady for FY26, avoiding the deep cuts proposed by the Trump Administration. Highlights include level funding for NSF's research portfolio, continued support for AI and quantum initiatives, and preservation of negotiated indirect cost rates—a major win for the research community. Read more here.

Research in a Box: How to Build Successful Computing Research Programs in Companies

CRA-Industry hosted a virtual "Research in a Box" roundtable featuring leaders from Microsoft, Intel, and AMD to share strategies for creating and sustaining computing research programs in industry. Discussion highlights included flexible collaboration models, adaptable intellectual property approaches, and aligning stakeholder goals. Insights from the event will inform an upcoming whitepaper to guide organizations in launching or growing research initiatives. Read more here.

New Leadership for CRA-Industry: Welcoming Eve Schooler as Council Chair

Eve Schooler (University of Oxford; formerly Intel) has been named Chair of the CRA-Industry Council, succeeding Ron Brachman (Cornell Tech/Schmidt Sciences). Under Brachman's leadership, the Council expanded membership, launched new working groups, and produced key reports; he will continue to serve on the CRA-I Steering Committee. Vivek Sarkar (Georgia Tech) concludes his Steering Committee term after years of foundational leadership since CRA-I's inception. Read more here.

Envisioning the Next AI Revolution Beyond Current Paradigms

A new Computing Community Consortium whitepaper, Envisioning Possible Futures for AI Research, examines six potential paradigms that could define the next AI revolution beyond today's deep neural networks. The paper calls for sustained investment in high-risk, long-term research to seed breakthroughs in areas such as neuro-symbolic AI, embodied AI, and quantum AI. Read more here.

Bridging Recommendations from the NASEM Team Science Report and CRA/CCC Best Practices on Interdisciplinary Computing Research

CCC's best-practice guides for funders, researchers, and organizational leaders align with the National Academies' *Science and Practice of Team Science* report. Shared priorities include seed funding for early-stage projects, structural and budgetary flexibility, cultural support through mentoring and team-building, recognition for interdisciplinary contributions, leadership commitment, and dedicated coordination resources. Together, these approaches aim to strengthen and sustain interdisciplinary computing research. Read more here.

Charting the Future: How AI Can Transform Biomedical Discovery and Public Health

The National Institutes of Health (NIH) is developing an AI strategy to advance biomedical research and public health. In response to NIH's request for input, CRA and the Computing Community Consortium (CCC) outlined recommendations focused on safe, secure, and effective AI. Key priorities include building robust, privacy-compliant data infrastructure; applying rigorous medical-grade evaluation to AI tools; ensuring AI augments rather than replaces healthcare professionals; and anticipating workforce impacts. Read more here.

Unleashing Enterprise AI: Key Insights from IBM's Lisa Amini at CCC's Computing Futures Symposium

At the CCC's 2025 Computing Futures Symposium, IBM Distinguished Engineer Lisa Amini explored the accelerating pace of AI innovation and its transformative potential for enterprises. She highlighted rapid advancements in generative and agentic AI, their projected $16 trillion economic impact by 2030, and IBM's own productivity gains. Amini discussed emerging applications—from collaborative AI agents to agentic data operations—and addressed future "wild cards" like quantum computing, sustainability, and AI-driven AI research. She also offered career advice for students entering the fast-evolving AI field. Read more here.

A Gold Standard for Collaborative Science: Leveraging CCC/CRA Best Practices for Interdisciplinary Computing Research

In response to the White House OSTP's call to prioritize collaborative, cross-disciplinary research, CRA and CCC's Catalyzing Interdisciplinary Computing Research guides offer strategies for funders, researchers, and leaders—ranging from seed funding and training to transparent norms and inclusive reward structures—to strengthen impactful partnerships. Read more here.

Making the Case for the CS Degree in the Age of Artificial Intelligence

AI tools are changing how software is developed, but they are more likely to augment rather than replace human programmers. Demand for computing expertise remains strong—shifting from large tech firms to a broader range of sectors—and core CS skills like problem-solving, debugging, and understanding complex systems are essential for effectively using AI. A strong CS education equips graduates to adapt to evolving technologies and lead in an AI-driven world. Read more here.

A Heartfelt Thank You to CCC Council Members Rotating Off

CCC extends its deepest gratitude to eight council members whose terms have concluded: David Danks, Chandra Krintz, Dan Lopresti, Rada Mihalcea, Raj Rajaraman, Matthew Turk, Pam Wisniewski, and Holly Yanco. Their collective contributions include leading task forces, organizing workshops, authoring whitepapers, and shaping CCC's responses to national research priorities. Their leadership and service have left a lasting impact on the computing research community. Read more here.

Professional Opportunities

DTU Compute

Associate Professor/DTU Tenure Track Assistant Professor in Embedded Intelligence

Are you looking to grow your career in intelligent embedded systems and edge computing?

Join the Embedded Systems Engineering research section at DTU Compute, where your expertise in dependability, performance, and sustainability will drive us towards a smarter, greener future. By joining us, you stand to gain extensive support, unlocking your career potential. You'll have access to state-of-the-art facilities and expert assistance with improving your teaching.

Read more about DTU Compute and Embedded Systems Engineering at *www.compute.dtu.dk/english* *www.compute.dtu.dk/sections/emsys*

To apply, please read the full job advertisement at *https://efzu.fa.em2.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_2001/job/5274/?utm_medium=jobshare&utm_source=External+Job+Share*
Application deadline is 31 August 2025

Jane Street

Machine Learning Educator

Jane Street is looking for an experienced and skilled educator to help us teach employees about machine learning.

Machine learning is a critical pillar of Jane Street's global business. Our ever-evolving trading environment serves as a unique, rapid-feedback platform for ML experimentation, allowing us to incorporate new ideas with relatively little friction. Our ML team is full of people with a shared love for the craft of software engineering, and for designing APIs and systems that are delightful to use.

Education is also a big focus for us. We believe that continued learning and exploration will play an essential role in supporting our growth. As Machine learning permeates through every part of our stack, we want to invest more.

The ML Educator will be instrumental in maintaining and growing our ML educational programs and classes, spanning topics such as an introduction to general ML, efficient use of AI assistants, our internal stack for training models, and how to reason about performance. We're looking for someone who:

- Is a skilled, effective, and experienced teacher. Part of that means being an effective writer and presenter.
- Is good at writing code, and is excited to spend a significant fraction of their time doing so as part of our machine learning research. The job requires developing an understanding of our technology stack, and the best way to build that understanding is by doing.
- Is a great mentor to other budding teachers. Part of the job is going to be teaching and developing curricula. But an equally important part is going to be helping other people involved in teaching to grow their skills.

We're excited to talk to people who have experience teaching ML topics in a university or an industry setting.

To apply, please visit: *https://www.janestreet.com/join-jane-street/position/8056588002/*

Base salary is $250,000 - $300,000. Base salary is only one part of Jane Street total compensation, which includes an annual discretionary bonus.

Mohamed bin Zayed University of Artificial Intelligence

Computational Biology - Open Rank Faculty Positions

Academic Appointments: School of Digital Public Health: Computational Biology

Location: Abu Dhabi, UAE

Open Date: Jul 01, 2025

Deadline: Jun 30, 2026 at 11:59 PM Eastern Time

Mohamed bin Zayed University of Artificial Intelligence (MBZUAI) is looking for passionate and highly motivated Faculty. The successful candidates will be responsible for delivering high-quality instruction, mentoring students, contributing to curriculum development, and actively engaging in interdisciplinary research. Faculty members will also have the opportunity to collaborate with

leading AI researchers, work on cutting-edge projects, and contribute to the university's growth as a hub for AI excellence.

Apply: *https://apply.interfolio.com/169869*

Mohamed bin Zayed University of Artificial Intelligence

Computer Science - Open Rank Faculty Positions

Academic Appointments: School of Computing: Computer Science

Abu Dhabi, UAE

Open Date: Jul 02, 2025

Deadline: Jun 30, 2026 at 11:59 PM Eastern Time

Description

Mohamed bin Zayed University of Artificial Intelligence (MBZUAI) is looking for passionate and highly motivated faculty. The successful candidates will be responsible for delivering high-quality instruction, mentoring students, contributing to curriculum development, and actively engaging in interdisciplinary research. Faculty members will also have the opportunity to collaborate with leading AI researchers, work on cutting-edge projects, and contribute to the university's growth.

Apply: *https://apply.interfolio.com/169904*

Mohamed bin Zayed University of Artificial Intelligence

Epidemiology - Open Rank Faculty Positions

Academic Appointments: School of Digital Public Health: Epidemiology

Abu Dhabi, UAE

Open Date: Jul 01, 2025

Deadline: Jun 30, 2026

Description

Mohamed bin Zayed University of Artificial Intelligence (MBZUAI) is looking for passionate and highly motivated Faculty. The successful candidates will be responsible for delivering high-quality instruction, mentoring students, contributing to curriculum development, and actively engaging in interdisciplinary research. Faculty members will also have the opportunity to collaborate with leading AI researchers, work on cutting-edge projects, and contribute to the university's growth as a hub for AI excellence.

Apply: *https://apply.interfolio.com/169871*

Mohamed bin Zayed University of Artificial Intelligence

Personalized Medicine - Open Rank Faculty Positions

Academic Appointments: School of Digital Public Health: Personalized MedicineLocationAbu Dhabi, UAE

Open Date: Jul 01, 2025

Deadline: Jun 30, 2026 at 11:59 PM Eastern Time

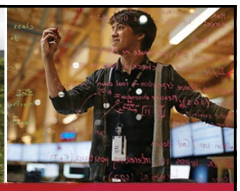
Description

Mohamed bin Zayed University of Artificial Intelligence (MBZUAI) is looking for passionate and highly motivated Faculty. The successful candidates will be responsible for delivering high-quality instruction, mentoring students, contributing to curriculum development, and actively engaging in interdisciplinary research.

Apply: *https://apply.interfolio.com/169883*

Stony Brook University





Empire Innovation Professor (Associate Professor) College of Engineering and Applied Sciences

Location: Department of Applied Mathematics and Statistics - College of Engineering and Applied Sciences
Open Date: Dec 03, 2024

Deadline: Mar 30, 2025 at 11:59 PM Eastern Time

Description:
The Department of Applied Mathematics and Statistics (AMS) invites applications to apply for a tenure-track Empire Innovation Professor (Associate Professor) position at Stony Brook University with an expected starting date of Fall 2025. The Empire Innovation Professor will join a robust community of scholars committed to advancing AI research for scientific discovery and engineering design.

Qualifications
Required Qualifications:
Ph.D. (or foreign equivalent) in Applied Mathematics, Statistics, Computer Science, Bio-engineering, or a closely related field. Distinguished research record in artificial intelligence (AI) or machine learning, with demonstrated expertise in applications to biomolecular and/or drug design. Established track record of scholarly achievements, high-impact publications, and significant research funding. Demonstrated leadership in the field with an international reputation for outstanding research.

Application Instructions:
To apply, visit https://apptrkr.com/6282893

Applications received prior to January 15, 2025 will receive full consideration. Candidates who apply on or after January 15, 2025 will be considered on a rolling basis until the position is filled. The below documents are required and must be submitted through Interfolio.

All application materials must be submitted online. Please use the Apply Now button to begin your application. For technical support, please visit Interfolio's Support Site (https://support.interfolio.com/) or reach out to their Scholar Service Team at help@interfollio.com or (877) 997-8807.

Please address inquiries to Dmytro Kozakov at dmytro.kozakov@stonybrook.edu.

The selected candidate must successfully clear a background investigation.

In accordance with the Title II Crime Awareness and Security Act, a copy of our crime statistics is available upon request . It can also be viewed online at the University Police website at http://www.stonybrook.edu/police.

The University of Texas at El Paso

Associate and Full Professor Positions in Applied AI

The University of Texas at El Paso (UTEP) has two Regents Distinguished Professor positions and one Associate Professor position. The positions are part of UTEP's newly established AI Institute created with support from the UT System Board of Regents Research Excellence Program designed to elevate and sustain research competitiveness across the UT System. The faculty cohort will be members of the Institute's backbone with an opportunity to take on leadership roles and contribute to the Institute's strategic direction in advancing applied AI research and innovation through engagement with partners from the public and private sectors. For more information visit: *https://tinyurl.com/UTEP-AI-Opportunity*.

Professional Opportunities

University of Arkansas, Fayetteville

Assistant Professor - Electrical Engineering and Computer Science (9 Month)

As an Assistant Professor, responsibilities include teaching, research, and service in the Department of Electrical Engineering and Computer Science at the University of Arkansas, Fayetteville. This position is a 100% appointed, 9-month, tenure-track position.

For this position, we are seeking outstanding candidates conducting cutting-edge research at the intersection of artificial intelligence and cybersecurity. Areas of interest include but are not limited to, generative AI for security, AI-powered agents for security, AI-assisted security, security operation automation, etc.

Regular, reliable, and non-disruptive attendance is an essential job duty, as is the ability to create and maintain collegial, harmonious working relationships with others.

For more information and to apply for this position: Applications should be submitted via the University of Arkansas Career Site: *https://uasys.wd5.myworkdayjobs.com/UAF_External_Career_Site/job/Fayetteville/Assistant-Professor---Electrical-Engineering---Computer-Science--9-Months-_R0073241*

University of Arkansas, Fayetteville

Assistant Professor - Electrical Engineering and Computer Science (9 Month)

As an Assistant Professor, responsibilities include teaching, research, and service in the Department of Electrical Engineering and Computer Science at the University of Arkansas, Fayetteville. This position is a 100% appointed, 9-month, tenure-track position.

For this position, the Department of Electrical Engineering and Computer Science is seeking candidates whose research lies broadly in AI for Science. Areas of interest include, but are not limited to, the use of AI to generate hypotheses, design experiments, collect and interpret large datasets, and extract insights from complex data in disciplines such as physics, biology, chemistry, climate science, and materials science.

For more information and to apply for this position: Applications should be submitted via the University of Arkansas Career Site: *https://uasys.wd5.myworkdayjobs.com/UAF_External_Career_Site/job/Fayetteville/Assistant-Professor---Engineering_R0073255-2*

University of California, Riverside

Postdoctoral Researcher

The Department of Computer Science and Engineering at the the University of California, Riverside is seeking a postdoctoral researcher in the area of program analysis, with a focus on system security applications. We are particularly interested in candidates with experience in static analysis techniques (e.g., using LLVM) and a strong publication record in relevant conferences, such as those in software engineering, security, or programming languages. The position is full-time and expected to last for two years. Interested applicants should email their CVs to *zhiyunq@cs.ucr.edu*. Preference will be given to candidates who are available to start immediately or in the near future.