CAREER MENTORING

WORKSHOP



Welcome!





Dan Garcia (CMW E) Lavanya Ramakrishnan (CMW L) Jaime Moreno (CMW I) Holly Rushmeier (CMW R)





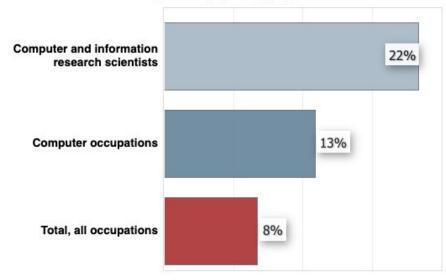
Computing Research Association Widening Participation

WHY CRA-WP?

Help achieve equity, accessibility and inclusion in Computer Research

Computer and Information Research Scientists

Percent change in employment, projected 2020-30



Note: All Occupations includes all occupations in the U.S. Economy. Source: U.S. Bureau of Labor Statistics, Employment Projections program

The expressed identities of the individuals we serve include:

- Women
- Black/African American
- Native American/ Alaskan Native/ Pacific Islander
- Hispanic/Latinx
- Lesbian, Gay, Bi-Sexual, Trans, Queer, Asexual, Intersex, and others
- Persons with disabilities
- Veterans



Computing Research Association Widening Participation

CRA-WP is committed to supporting all communities in computing research.

Average annual growth in the total number of employed individuals with highest degree in S&E, by field and level of highest degree: 2003–15



WHAT?

Increase participation in jobs that shape the world and compensate well

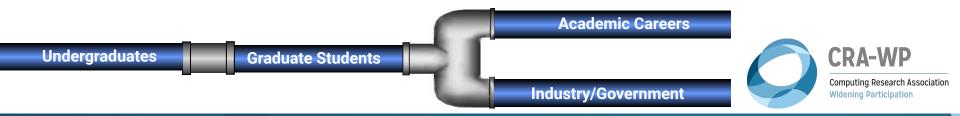
Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT) (2003), https://www.nsf.gov/statistics/sestat/, and National Survey of College Graduates (NSCG) (2015), https://www.nsf.gov/

HOW?

INDIVIDUAL & GROUP RESEARCH MENTORING

- Undergrads: Distributive Undergraduate Research Experiences
- Graduate students mentoring: Grad Cohort for Women, IDEALS
- Industry professional mentoring to return to graduate school: CSGrad4US
- PhD Researchers: group mentoring of early & mid career professionals
 - *Career Mentoring Workshop (CMW)*, sessions at GHC and at Tapia
- Hundreds of students and PhD researchers a year



Early/Mid Career Mentoring Workshop - Why

Help increase the percentage of Computer Science and Engineering faculty members and research technologists

- who are from historically underrepresented groups
- who aspire to reach the top of their respective career tracks.

Participants have already entered the workforce



Early/Mid CMW - What

- Enable participants identify their individual career needs and goals, and take concrete steps toward success in their career path/promotion.
- Augment participants' knowledge of effective career management strategies for their career stage -- including effective communication, having a mentor, and increased visibility.



Early/Mid CMW - How

Four Groups: R - E - L - I Academia Govmt/Industry

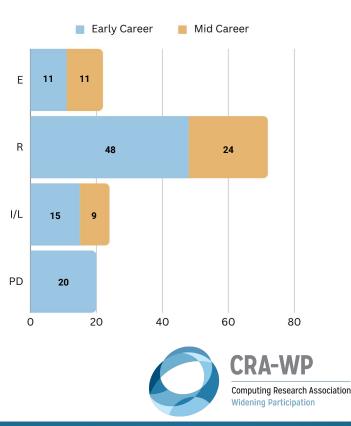
- All groups have similar needs, but also differences
- Workshop organized in tracks
- Tracks running in parallel, with some combined sessions
- Important that participants across all tracks interact with each other
- Foster collaboration!



Early/Mid CMW 2023 Participants

Mid Career attendees – 43 Early Career attendees – 94

Speakers/Mentors – 32



WHILE HERE

INTRODUCE YOURSELVES

- Speakers
- Participants
- Staff/Volunteers
- Make Connections!



DOWNLOAD THE APP

Benefits provided by the app:

- Meeting space layout
- Agenda
- Build your own agenda
- Connect with participants
- Program announcements



SHARED SESSIONS/ACTIVITIES

• Friday, November 3, 2023

- <u>Plenary:</u> *Mentoring* 101 8:20-8:50 am
- <u>Keynote</u>: Valerie Taylor 5:00 pm 6:00 pm

- Saturday, November 4, 2023
 - <u>Plenary</u>: Establishing Partnerships with Industry 8:30 9:30 am
 - <u>Plenary</u>: Building Your Brand, Influence 2:05 3:05 pm



MENTORING

Group Mentoring Saturday, 8:30 am - 9:25 am

Engage with speakers and peers to discuss a variety of topics:

- Academic Career Development and Success
- Communication and Professional Skills
- Diversity, Equity, and Inclusion (DEI)
- Grant Writing and Research Funding
- Industry vs. Academia Career Paths
- Interdisciplinary Research and Collaboration
- Job Search and Career Transitions
- Lab Environment and Culture
- Leadership and Management Skills
- Networking and Collaborations
- Research Portfolio and Opportunities
- Teaching and Research Balance
- Tenure and Promotion
- Work-Life Balance and Well-being
- Cybersecurity in Computer Science Education

One-on-one Mentoring Friday, 3:50 pm - 4:40 pm Saturday, 1:00 pm - 2:00 pm

- Engage with speakers
- Feel free to discuss your resume or CV, if you would like

LUNCH TOPICS

Topics on different categories

List of topics and corresponding tables can be found on the app and in the meals ballroom



ENGAGE WITH BPC ALLIANCES!

Visit our BPC Alliances tables during breaks and meals

BPC: Broadening Participation in Computing (https://bpcnet.org/alliances/)

SPEAKERS

Lori Diachin, *Lawrence Livermore Lab* Katherine Evans, *Oak Ridge National Laboratory*

Stephanie Forrest, UC Davis

Ann Gates, University of Texas at El Paso

Maria Gini, University of Minnesota Soha Hassoun, Tufts University Raja Kushalnagar, Gallaudet University Patty Lopez, Intel Corporation/NMSU Xioaye Sherry Li, Lawrence Berkeley National Laboratory Kathryn Mckinely, Google Kyla McMullen, University of Florida Mark Moss, Georgia Tech Cynthia Phillips, Sandia National Labs Susan Rodger, Duke University Tagrhid Samak, Meta Vivek Sarkar, Georgia Tech Eve Schooler, Oxford University Amanda Stent, Colby College Valerie Taylor, Argonne National Laboratory Jodi Tims, Northeastern University Ellen Zegura, Georgia Tech

Deb Agarwal, Berkley Lab

Daniel Aliaga, Purdue University

Ann Almgren, Lawrence Berkeley National Laboratory

Nancy Amato, Univ. of Illinois, Urbana-Champaign

Dorian Arnold, Emory University

Tiffany Barnes, NC State

Cynthia Bennett, Google

Alan Bivens, IBM

Amy Briggs, Middleburry University

Tracy Camp, CRA

Jan Cuny, Northeastern University

CONFIDENTIALITY

- It is important that participants show respect for concerns expressed by others
- Participants should always keep in mind that personal information and views of the participants shared during the workshop are confidential --- and should stay within the meeting

- When discussing specific situations, participants should try to generalize their questions as much as possible
 - For example, instead of discussing a problem that arose in a compiler class that you took with Professor X at the University of Y, the problem could be described in terms of a project-oriented course that you took the first year in graduate school.



CRA CODE OF CONDUCT

CRA recognizes the inherent worth and dignity of every individual and group to contribute to its mission. CRA embraces and encourages diversity and inclusion.

Unacceptable behavior at CRA activities includes, but is not limited to, discrimination and any form of harassment or retaliation

Be thoughtful in all your communications. "Having no intent to offend" and "joking" do not make unacceptable behavior acceptable.

Participation in CRA activities is considered a privilege, not a right. CRA reserves the right to:

- Remove individuals from any CRA activity without warning and without reimbursing or refunding meeting participation costs; Prohibit individuals from participating in future CRA activities.

Please help to make this a welcoming and safe place for everyone!

CRA staff designated for confidential reporting:

Lauren Lashlee Email: llashlee@cra.org

Alejandra Guzman Email: aguzman@cra.o



Computing Research Association Widening Participation

AREER MENTORING

WORKSHOP

NETWORK, NAVIGATE, AND ENGAGE!

- Take advantage of this opportunity by engaging with all participants speakers, sponsors, staff, etc. Advocate for your needs, if you require assistance please ask our
- staff.
- There are a few accessibility tables reserved for persons with disabilities in the front and back of each room.

Most importantly, ENJOY THE WORKSHOP!



POST-WORKSHOP: *STAY CONNECTED!*

- Connect with participants speakers, sponsors, and staff via email, LinkedIn, etc.
- Consider joining the CRA-WP Facebook and/or LinkedIn Groups
- Sign up for the CRA-WP updates on our website
- Give back and help improve future offerings of this workshop by participating in the evaluation
- Give back by mentoring others and sharing what you've learned here

THANK YOU, CRA STAFF!

Lauren Lashlee - Program Associate Alejandra Guzman - Senior Program Associate Eniola Idowu - Research Associate Toyamim Rahman - Program Associate Helen Wright - Program Manager Kayley McDonald - Program Assistant Tracy Camp - Executive Director and CEO

Not on-site this time but equally appreciated: Janine Myzika - Program Associate Elora Daniels - Communications Associate Daniela Cardenas - Senior Program Associate Curtis Cain - Director of Broadening Participation Initiatives Erik Russell - Director of Educational Initiatives







COMPUTING RESEARCH ASSOCIATION

Uniting industry, academia, and government to advance computing research and change the world.



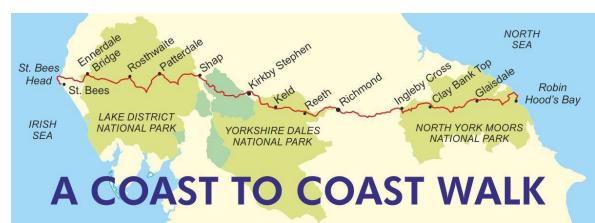
Tracy Camp

Emeritus Professor Colorado School of Mines





Executive Director and CEO Computing Research Association



WHAT WE DO

Our **mission** is to catalyze computing research by joining with industry, government, and academia.

- Lead the computing research community
- Inform policymakers and the public
- Champion a diverse, welcoming, equitable, and socially responsible computing research community



Computing Research

Association







Our membership

spans 250+

institutions across

industry, government,

and academia















































COMPUTING COMMUNITY CONSORTIUM Catalyst



CRA-E Computing Research Association Education



Computing Research Association Industry

CRA-I



CERP

Computing Research Association Evaluation



CRA-WP Computing Research Association Widening Participation



Computing Research Association Government Affairs

CRA relies on many volunteers that serve on its committees, as well as its professional staff, to carry out its programs.



CCCC Computing Community Consortium Catalyst



Computing Research Association



Computing Research Association



ERP

Computing Research Association Evaluation



Computing Research Association Widening Participation



Computing Research Association Government Affairs

CCC

Envision and enable the pursuit of computing research that aligns with national and global challenges



CC _____

Computing Community Consortium Catalyst



Computing Research Association

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CERP

Computing Research Association Evaluation



Computing Research Association Widening Participation



Computing Research Association Government Affairs

CERP Increase diversity in computing research through data, evaluation, and community engagement



:CC

Computing Community Consortium Catalyst



CRA-E Computing Research Association Education



Computing Research Association ndustry



ERP

Computing Research Association



Computing Research Association Widening Participation



Computing Research Association Government Affairs

CRA-E

Ensure a continuous supply of computing researchers



Computing Community Consortium Catalyst



Computing Research Association



Computing Research Associatior ndustry



ERP

Computing Research Association Evaluation



CRA-WP

Computing Research Association Widening Participation



Computing Research Association Government Affairs

CRA-WP

Increase the success and participation of populations minoritized in computing research



CC

Computing Community Consortium Catalyst



Computing Research Association Education



Computing Research Association Industry



ERP

Computing Research Association Evaluation



Computing Research Association Widening Participation



CRA-I

Computing Research Association Government Affairs

CRA-I

Convene industry on computing research topics of mutual interest



CC

Computing Community Consortium Catalyst



Computing Research Association Education



Computing Research Association



ERP

Computing Research Association Evaluation



Computing Research Association Widening Participation



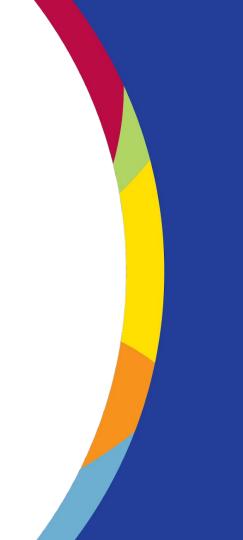
CRA

Computing Research Association Government Affairs

GOVERNMENT AFFAIRS Advocate and analyze policy for the computing research community

WHAT CAN CRA DO FOR YOU?

- Enrichment programs
- Best-in-class events
- Data and insights
- Job advertising and recruiting tools
- Impactful service opportunities
- Awards programs





CRA offers a variety of development opportunities for researchers of all career stages



Engages more women in CS PhD programs through a virtual, nationally-managed approach Resources for faculty and undergrads interested in research, grad school, and CS research careers Recognizes outstanding research potential in any area of computing research

Matches students with a faculty mentor for a summer research experience at the faculty mentor's home institution

Deadline: Mar 1









Deadline: Mid Oct









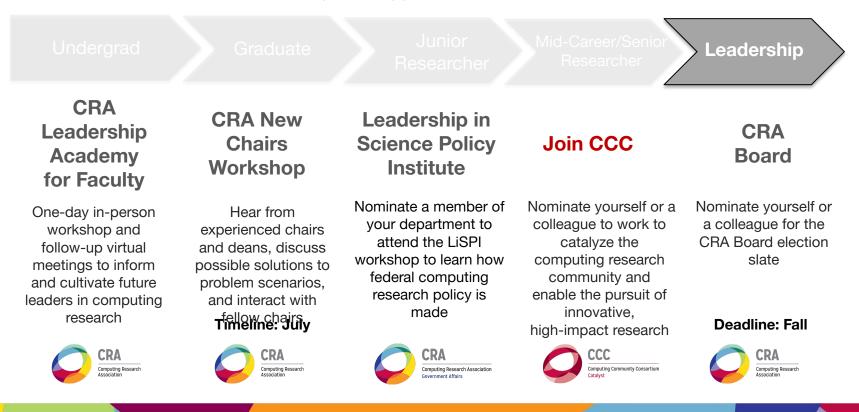






ENRICHMENT PROGRAMS

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CSGrad4US Fellowship Program

The CSGrad4US Mentoring Program supports and mentors recipients of the NSF CSGrad4US Graduate Fellowship returning to graduate school for a PhD in computing

https://cra.org/csgrad4us/

DATA AND INSIGHTS



BPCnet.org



 A clearinghouse for the community to learn about and engage with content related to broadening participation in computing (BPC)

CRA Taulbee Survey

- The principal source of information on the enrollment, production, and employment of PhDs in several computing fields
- Survey report published annually in May
- Salary information shared in January for those who complete the survey

The Data Buddies Project

 Collects data to provide useful insights into student attrition and retention, matriculation into graduate school and research careers, and broadening participation

Evaluation Services

 Evaluate your intervention programs, including BPC related programs, REU sites and supplements

JOB ADS AND FACULTY RECRUITING TOOLS

CRA Job Announcements

- Post an ad for your open roles for computing faculty and/or computing researchers
- More than 800 positions posted by nearly 400 universities and companies in 2022

cra.org/ads

40% off CRA Member Discount

Did you know?

CRA PhD Database

- Candidates can upload resumes, research and teaching statements, job objectives, videos, etc.
- Recruiting officers with access can search and contact candidates

cra.org/cv-database

IMPACTFUL SERVICE OPPORTUNITIES



Help build consensus around a united vision of inclusive undergraduate computing education



- AccessComputing
- CAHSI
- CIC
- CRA-WP
- ECEP
- IAAMCS
- LEAP
- NCWIT
- STARS

AWARDS PROGRAMS



A. Nico Haberman Award

> Distinguished Service Award

Outstanding Undergraduate Researcher Award

Service to CRA Award





CRA-E Undergraduate Research Faculty Mentoring Award CRA-WP Anita Borg Early Career Award

CRA-WP Skip Ellis Early Career Award



FOLLOW US

Become a fan of CRA's Facebook page

Follow CRA on Instagram @computingresearch

Subscribe to CRA's YouTube Channel

Join the CRA LinkedIn Group

Join a specific CRA Committee's Blog

CRA Download





Closing remarks



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ANOTHER WORKSHOP OF INTEREST

• CRA Early Career Mentoring Workshops

- February 20-21, 2024 (Teaching)
- February 22-23, 2024 (Research two tracks)
 - Academic (CRA's traditional CMW)
 - Industry/Labs (new track)
- Opportunity to meet NSF program directors
- Application due date: Dec 11th



https://cra.org/crn/2023/10/cra-update-newly-expanded-cra-career-mentoring-workshops-now-accepting-applications/



CRA-WP EARLY CAREER AWARDS

• Anita Borg Early Career Award (BECA)

• Given to a woman in computer science and/or engineering who has made significant research contributions in computer science and/or engineering and has also contributed to the profession, especially in outreach to women.

Skip Ellis Early Career Award (SEECA)

- Given to a person who identifies as a member of a group underrepresented in computing (African-American, Latinx, Native American/First Peoples, and/or People with Disabilities), who has made significant research contributions in computer science and/or engineering and has also contributed to the profession, especially in outreach to underrepresented populations
- Nominations process will open on November 15

https://cra.org/cra-wp/scholarships-and-awards/awards/cra-wp-early-career-awards/



CRA (LATER CAREER) AWARDS

• CRA Distinguished Service Award

• CRA makes this award, usually annually, to a person or organization that has made an outstanding service contribution to the computing research community.

CRA A. Nico Habermann Award

- CRA makes this award, usually annually, to a person who has made outstanding contributions aimed at increasing the numbers and/or successes of groups who have been minoritized in the computing research community.
- Nominations due January 26

https://cra.org/about/awards/



Thank You for Attending!

Friendly Reminder: What is said at CRA-WP CMW stays at CRA-WP CMW