



2015 Grad Cohort SAN FRANCISCO

Dear Grad Cohort Participant,

We welcome you to the 2015 CRA-Women Graduate Cohort Workshop! The next two days are filled with sessions where 25 senior computing researchers and professionals will be sharing their strategies and experiences to help increase your graduate school and career success. There are also plenty of opportunities to meet and network with these successful senior women as well as graduate students from other universities. We hope that you will take the utmost advantage of this unique experience by actively participating in discussions, developing peer networks, and building mentoring relationships.

The 2015 CRA-Women Graduate Cohort Workshop is made possible through generous contributions by Microsoft Research, Computing Research Association, National Science Foundation, Google, a private foundation, Alfred P. Sloan Foundation, Two Sigma, Intel Corporation, ACM SIGARCH, ACM SIGMICRO, ACM SIGGRAPH, ACM SIGOPS, ACM SIGPLAN, ACM SIGSOFT, Yahoo! Labs, Facebook, IBM and in some cases department funds from participating universities/ institutions. Please join us in thanking them for their kind support.

We hope that you take home many nuggets and connections from this workshop to help you in your journey to make an impact in the world through computing. Be ready to be inspired, learn, and meet many interesting technical women.

Sincerely,

 Lori Clarke, Sandhya Dwarkadas, and Ayanna Howard CO-CHAIRS, CRA-WOMEN GRADUATE COHORT WORKSHOP



Agenda

FRIDAY, APRIL 10, 2015

7:30 - 8:45	Registration · Grand Foyer						
7:30 - 8:45	Breakfast · Atrium 2-5						
8:45 - 9:15	Welcome · <i>Grand Ballroom</i> Lori Clarke, Sandhya Dwarkadas, and Ayanna Howard						
9:15 - 10:15	First year Grand Ballroom	Second year <i>Pacific H-K</i>	Third year <i>Pacific D-G</i>				
	Networking Anna Karlin	Presentation and Other Verbal Communication Skills Kathryn McKinley	Preparing Your Thesis Proposal and Becoming a PhD Candidate Nancy Amato				
10:15 - 10:45	Break						
10:45 - 11:45	Master's vs. Ph.D. Rita Wouhaybi, A.J. Brush	Finding a Research Topic (including Interdisciplinary) Yuanyuan Zhou	Publishing Your Research Holly Rushmeier				
11:45 - 1:15	Lunch — Tables by Primary Research Area · <i>Atrium 2-5</i>						
1:15 - 2:15	Finding and Training Your Advisor Lori Pollock	Balancing Graduate School and Personal Life Gail Murphy	Ph.D. Non-Academic Career Paths and Job Search Rita Wouhaybi, Deb Agarwal, Jamika Burge				
2:15 - 2:45	Break						
2:45 - 3:45	Future of Computer Science • Grand Ballroom Dr. Jim Kurose (National Science Foundation)						
3:45 - 4:00	Break						
4:00 - 5:30	Poster Session · Pacific L— O & East Corridor						
6:30 - 10:30	Reception hosted by Microsoft Research · Grand Ballroom						

SATURDAY, APRIL 11, 2015

7:30 - 8:30	Breakfast · Atrium 2-5						
8:30 - 9:30	Strategies for Human-Human Interaction • Grand Ballroom Moderator: Jamika Burge Panelists: Amanda Stent, Gail Murphy, Mondira Pant						
9:30 - 9:45	Break						
	First year Grand Ballroom	Second year <i>Pacific H-K</i>		Third year Pacific D-G			
9:45 - 10:45	Financially Supporting Your Graduate Education Tiffani Williams	M.S. Career Opportunities and Job Search Rane Johnson-Stempson, Amanda Stent, Patty Lopez		Ph.D. Academic Career Paths and Job Search Susan Rodger, Padma Raghavan			
10:45 - 11:15	Break						
11:15 - 12:15	Summer Internships Suju Rajan, Rane Johnson-Stempson, Patty Lopez	Building Self-Confidence Chandra Krintz		Building Your Professional Persona Mondira Pant, Sami Rollins			
12:15 - 12:30	Wrap-Up & Final Remarks · <i>Grand Ballroom</i> Lori Clarke, Sandhya Dwarkadas, and Ayanna Howard						
12:30 - 1:15	Lunch — Tables by Student Proposed Discussion Topics • Atrium 2-5						
1:15 - 2:45	Resume/CV Advising Grand Ballroom		Individual Career Advising Pacific H-K				
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Cohort Venue

HYATT REGENCY SAN FRANCISCO

5 Embarcadero Center · San Francisco, CA 94111

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Session Descriptions

FRIDAY, APRIL 10, 2015

Networking

9:15 - 10:15 • Grand Ballroom

This session addresses the skills that are needed for networking - a very important component of your professional life. The topics include strategies for finding a community, meeting people in the field, and promoting your research and yourself. This session will also address what you should prepare for, learn, and what to do when you attend conferences, workshops, or any technical meeting, including meeting researchers visiting your department.

Speaker(s): Anna Karlin

Presentation and Other Verbal Communication Skills

9:15 - 10:15 • Pacific H-K

This session will focus on building your oral communication skills. Topics include strategies for high quality oral and poster presentations.

Speaker(s): Kathryn McKinley

Preparing Your Thesis Proposal and Becoming a Ph.D. Candidate

9:15 - 10:15 • Pacific D-G

Before being a PhD candidate, students usually have to pass several hurdles, with the last one being the thesis proposal, where you show that you understand the literature and layout your plans for completing a thesis. This session will discuss the goals of the proposal, an outline of what should be in the proposal, how to strategically choose your committee, and how to prepare for your proposal defense. This session also covers how to take a lead role in your research group and publications, strategies for managing your dissertation writing process, and promoting yourself.

Speaker(s): Nancy Amato

• Master's vs. Ph.D.: Which one to choose? How far to go?

10:45 - 11:45 • Grand Ballroom

This session will address the main differences in career options and in graduate studies between a Master's degree and PhD degree. Topics include realistic goals and expectations for each degree and various strategies for deciding which degree to pursue.

Speaker(s): Rita Wouhaybi, A.J. Brush

Finding a Research Topic

10:45 - 11:45 • Pacific H-K

This session will focus on strategies for actively identifying a viable research topic for your Ph.D. dissertation. It will discuss how to choose between several topics and what you should look for in a topic. It will address how your career plans (e.g., teaching, academic research, or industrial research) may influence your choice. It will also describe the various aspects of a research topic (e.g., theoretical foundation, experimental framework, analytic and experimental results), and it will discuss how to set reasonable goals and milestones so that you can successfully finish in a reasonable time frame.

Speaker(s): Yuanyuan Zhou

Publishing Your Research

10:45 - 11:45 • Pacific D-G

Publishing your research is a necessary activity for your future career. This session will discuss avenues for publication and what is required for the different types of publications. Also discussed will be the ethical concerns of publishing such as plagiarism, dual submissions, and author ordering.

Speaker(s): Holly Rushmeier

Finding and Training Your Advisor

1:15 - 2:15 • Grand Ballroom

Obtaining a PhD is like undertaking an apprenticeship. Thus, it is very important to have a good advisor and a good relationship with that advisor. This session will focus on the importance of carefully choosing an advisor, how to get the most out of your interactions with your advisor, and the responsibilities of both student and advisor in making the graduate research experience successful. It will discuss how to work through problems with your advisor, when to consider changing advisors or institutions, and strategies for undertaking such a change. It will also discuss the benefits of having mentors, in addition to your advisor.

Speaker(s): Lori Pollock

Balancing Graduate School and Personal Life

1:15 - 2:15 • Pacific H-K

This session will address strategies for maintaining balance and a positive perspective in your life during graduate school and throughout your career. Topics will include achieving personal satisfaction in your career and family life, balancing your TA duties, your course work, and your research program, decisionmaking strategies when career and family priorities seem to collide, and re-evaluating your personal and career goals and initiating changes.

Speaker(s): Gail Murphy

Ph.D. Non-Academic Career Paths: **Industrial Research & Development**

1:15 - 2:15 • Pacific D-G

This session will focus on the different career paths for new Ph.D.'s in industry and government laboratories. Topics will include the challenges and rewards of a non-academic career, skills and experiences needed for success, opportunities for advancement and taking the initiative, collaborating with researchers in academia or other organizations, and positioning yourself to make career changes between labs and/or academia.

Speaker(s): Rita Wouhaybi, Deb Agarwal, Jamika Burge

Future of Computer Science

2:45 - 3:45 • Grand Ballroom

SATURDAY, APRIL 11, 2015

Strategies for Human-Human Interaction

8:30 - 9:30 • Grand Ballroom

This session will focus on strategies for productive interaction with colleagues (both faculty and students), including the opportunities and challenges of being a woman in a computing technology career. Topics include inter-personal interaction dynamics, uncomfortable situations that might arise and how to react, the pros and cons of dating your fellow graduate students or department faculty, recognizing and dealing with sexual harassment and implicit bias, and family-friendly policies to look for in a working environment.

Moderator: Jamika Burge Panelists: Amanda Stent, Gail Murphy, Mondira Pant

Financially Supporting Your Graduate Education

9:45 - 10:45 • Grand Ballroom

This session will focus on how to identify financial support for your academic studies beyond the initial teaching/research assistantship position, including positioning yourself for research assistantships, tracking down fellowship opportunities, and how to put together a successful application. This session will also address how to survive temporary funding shortfalls/lapses.

Speaker(s): Tiffani Williams

M.S. Career Opportunities and Job Search

9:45 - 10:45 • Pacific H-K

This session will be a discussion of the various career opportunities for Master's graduates and how to find a position that is best for you. Discussion will include possible career paths and the role of mentors in industry. This session will also discuss the process of finding an industry position for M.S. graduates, how to prepare for the interview, what questions to ask and what you should expect during the interview, and what to do after the interview. Tips will be given on writing a cover letter and resume that attracts attention.

Speaker(s): Rane Johnson-Stempson, Amanda Stent, Patty Lopez

Ph.D. Academic Career Paths: Research, Teaching, and Administration

9:45 - 10:45 • Pacific D-G

This session will focus on the different career paths in academia. Topics include the roles of research, teaching, and service, and how they differ in different academic institutions as well as depending on one's position (e.g., tenure track faculty, lecturer, administrator). This session will also discuss the challenges and rewards of research, teaching, and service, and the skills for success in each. It will also discuss changing career paths.

Speaker(s): Susan Rodger, Padma Raghavan

Summer Internships

11:15 - 12:15 • Grand Ballroom

This session will focus on how to go about finding an industry or government lab internship for the summer, the advantages and disadvantages of doing so, and how to get the most out of a summer internship.

Speaker(s): Suju Rajan, Rane Johnson-Stempson, Patty Lopez

Building Self-Confidence

11:15 - 12:15 • Pacific H-K

Speaker(s): Chandra Krintz

This session will address the confidence crisis that 2nd (and 3rd) year graduate students often face: how to recover from not doing as well in a course as you expected, from not passing the PhD candidacy exams on your first try, from the frustration of not knowing what your specific research project will be, from the feeling that you don't know as much as your fellow graduate students. The discussion will focus on issues and rewards of continuing towards your goals and milestones in grad school where persistence is needed.

Building Your Professional Persona

11:15 - 12:15 • Pacific D-G

This session will address the dos and don'ts of building a professional image. Topics will include web presence (personal pages and social media), dissemination of technical contributions, and professional ethics.

Speaker(s): Mondira Pant, Sami Rollins

Resume/CV Advising

1:15 - 2:45 • Grand Ballroom

Individual Career Advising

1:15 - 2:45 · Pacific H-K



Speakers

Deb Agarwal **Lawrence Berkeley National Laboratory**



Deb Agarwal is a Senior Staff Scientist at the Lawrence Berkeley Laboratory and head of the Data Science and Technology Department. She is leading several teams developing cyber infrastructure to support scientific research. Her current projects are developing a data

server infrastructure to enhance data management, browsing, and analysis capabilities for eco-science and new computational modeling environments for understanding carbon flux. Her research areas also include e-science, distributed systems, workflow, networking, and cybersecurity. Dr. Agarwal is also an Inria International Chair and a Senior Fellow of the Berkeley Institute for Data Science at University of California, Berkeley. Dr. Agarwal holds a Ph.D. in electrical and computer engineering from University of California, Santa Barbara and a BS in mechanical engineering from Purdue University.

Nancy Amato **Texas A&M University**



Nancy M. Amato is Unocal Professor in the Department of Computer Science and Engineering at Texas A&M University where she co-directs the Parasol Lab. and is the Senior Director of Engineering Honor Programs in the College of Engineering at Texas A&M. She

received undergraduate degrees in Mathematical Sciences and Economics from Stanford University, and M.S. and Ph.D. degrees in Computer Science from UC Berkeley and the University of Illinois at Urbana-Champaign. Her main areas of research focus are motion planning and robotics, computational biology and geometry, and parallel and distributed computing. She was Editor-in-Chief of the IEEE/RSTIROS Conference Paper Review Board from 2011-2013, has served on the editorial boards of the IEEE Transactions of Robotics and Automation, IEEE Transactions on Parallel and Distributed Computing. She is an elected member of the CRA Board of Directors (2014-2017), and of the IEEE Robotics and Automation Society Administrative Committee (2009-2011, 2012-2014). She is co-Chair of the Computing Research Association's Committees on the Status of Women in Computing Research (CRA-W) and was co-Chair of the National Center for Women in Information Technology (NCWIT) Academic Alliance (2009-2011).

She was an AT&T Bell Laboratories PhD Scholar. received an NSF CAREER Award, is a Distinguished Speaker for the ACM Distinguished Speakers Program, and was a Distinguished Lecturer for the IEEE Robotics and Automation Society. She received the 2014 CRA A. Nico Haberman Award, the inaugural 2014 NCWIT Harrold and Notkin Research and Graduate Mentoring Award, the 2013 IEEE Hewlett-Packard/ Harriet B. Rigas Award, and a University-level teaching award. She is a AAAS Fellow and an IEEE Fellow.

A.J. Brush Microsoft Research



A.J. Bernheim Brush is a Senior Researcher at Microsoft Research. A.J.'s research area is Human-Computer Interaction with a focus on Ubiquitous Computing and Computer Supported Collaboration (CSCW). A.J. is most well known for her research on technologies for

families and her expertise conducting field studies of technology. Her current focus is home automation as co-leader of the Lab of Things project. She is a Senior Member of the ACM and was honored to receive a Borg Early Career Award in 2010. Her research has

received 2 best paper awards and several best paper nominations. She has 11 patents and more than 18 inventions patent pending. A.J. was co-general chair of UbiComp 2014, serves on the UbiComp Steering Committee and is co-chair of CRA-W. A.J. also serves regularly on Program Committees for many conferences including UbiComp, Pervasive, CHI, and CSCW.

Jamika Burge

Smarter Balanced at UCLA



Dr. Jamika Burge serves as the director of assessment technology product and research for the Smarter Balanced Assessment Consortium. She oversees the Smarter App suite of open source software as well as leads efforts to identify, prioritize, and manage system

requirements using a user research approach. She is also responsible for developing a strategic vision to sustain and enhance the Smarter Balanced assessment system to better improve teaching and learning among member states.

Jamika has served as a technical and research program management professional to a number of educational and government organizations, which is complemented by her teaching experience at the college level. Her research interests lie in humancomputer interaction (HCI), specifically in the design of technologies that support a range of communication and interaction needs. She uses a variety of user research methods (attitudinal and behavioral: qualitative and quantitative, etc.) to assess user behavior, needs, and motivations. She is active in computer science education and STEM preparedness efforts, providing expertise for a host of funded programs funded by the National Science Foundation (NSF) and the Computing Research Association (CRA), including those seeking to broaden participation in computer science. Burge holds a Ph.D. in computer science, with a focus on human-computer interaction (HCI) from Virginia Polytechnic Institute and State University.

Lori Clarke University of Massachusetts Amherst





Lori A. Clarke is chair the School of Computer Science at the University of Massachusetts, Amherst, and co-director of the Laboratory for Advanced Software Engineering Research (LASER). She is a Fellow of the ACM and IEEE, and a board member of the Computing Research Association's Committee on the Status of Women in Computing Research (CRA-W). She is a former vice chair of the Computing Research

Association (CRA), co-chair of CRA-W, IEEE Publication Board member, associate editor of ACM TOPLAS and IEEE TSE, member of the CCR NSF advisory board, and ACM SIGSOFT chair. Awards include the 2012 SIGSOFT Outstanding Research Award, 2011 University of Massachusetts Outstanding Accomplishments in Research and Creative Activity Award, the 2009 College of Natural Sciences and Mathematics Outstanding Faculty Service Award, the 2004 University of Colorado, Boulder Distinguished Engineering Alumni Award, and the 2002 SIGSOFT Distinguished Service Award. Dr. Clarke's research is in the area of software engineering. Recently she has been investigating applying software engineering technologies to detect errors and vulnerabilities in complex processes in domains such as healthcare, scientific workflow, and digital government. She is also involved in several efforts to increase participation of underrepresented groups in computing research.

Sandhya DwarkadasUniversity of Rochester



CRA-W GRAD COHORT CO-CHAIR Sandhya Dwarkadas is Professor and Chair of Computer Science at the University of Rochester, with a secondary appointment in Electrical and Computer Engineering. She received her Bachelor's from the Indian Institute of Technology, Madras, India, and her M.S. and Ph.D. from Rice University. Her research lies at the interface of

hardware and software with a particular focus on concurrency, resulting in over a 100 refereed publications that cross areas within systems. She is co-inventor on 11 granted U.S. patents. She is a CRA-W board member, and is currently on the editorial board of CACM Research Highlights and IEEE Micro.

Her recent research focuses on addressing the challenge of leveraging the computational power of the increasingly large core counts available on today's processors. Her research addresses the challenge at three levels — via scalable hardware cache coherence protocols, via improved language and runtime support for expressing and extracting application parallelism, and via operating system-level energy and resource management. She also continues to stay involved in parallel applications development, particularly in the biomedical domain, with collaborations on parallel versions of tools including FASTLINK and Mr. Bayes.

Ayanna HowardGeorgia Institute of Technology





Ayanna Howard is the Motorola Foundation Professor in the School of Electrical and Computer Engineering at the Georgia Institute of Technology. She received her B.S. in Engineering from Brown University, her M.S.E.E. from the University of Southern California, and her Ph.D. in Electrical Engineering from the University of Southern California in 1999. Her area of research is centered around the concept of

humanized intelligence, the process of embedding human cognitive capability into the control path of autonomous systems. This work, which addresses issues of autonomous control as well as aspects of interaction with humans and the surrounding environment, has resulted in over 180 peer-reviewed publications in a number of projects — from scientific rover navigation in glacier environments to assistive robots for the home.

To date, her unique accomplishments have been highlighted through a number of awards and articles, including highlights in USA Today, Upscale, and TIME Magazine, as well as being named a MIT Technology Review top young innovator of 2003, recognized as NSBE Educator of the Year in 2009, and receiving the Georgia-Tech Outstanding Interdisciplinary Activities Award in 2013.

In 2013, she also founded Zyrobotics, which is currently licensing technology derived from her research lab and has released their first suite of educational technology products. From 1993-2005, Dr. Howard was at NASA's Jet Propulsion Laboratory, California Institute of Technology. Following this, she joined Georgia Tech in July 2005 and founded the Human-Automation Systems Lab. She is currently the Associate Director of Research for the Georgia Tech Institute for Robotics and Intelligent Machines. Prior to that, she served as Chair of the multidisciplinary Robotics Ph.D. program at Georgia Tech for three years from 2010-2013.

Rane Johnson-Stempson

Microsoft Research



Rane Johnson engages with academics worldwide to identify high-impact areas for research investigations. She is working on projects that use technology to transform how we learn about history, middle school girls' perceptions in STEM, social spaces for learning and how we

eradicate human trafficking. Johnson also serves as Microsoft Research's lead for growing, attracting, and retaining women and under-represented groups in research, science, and engineering. She works with NCWIT, Anita Borg, CRA-W, TAPIA, CMDIT, ACM-W and researchers to grow the pipeline of women and under-represented groups in research and STEM fields. She is passionate about education and technology, with 18 years of experience in the field. Johnson is a graduate of Bucknell University with a B.S. in Mechanical Engineering and a B.A. in Economics/Finance, and of George Fox University with an Executive MBA in Transformational Leadership.

Anna KarlinUniversity of Washington



Anna Karlin is the Microsoft Professor of Computer Science and Engineering at the University of Washington. She received her Ph.D. from Stanford University and then spent 5 years as a researcher at (what was then) Digital Equipment Corporation's Systems Research

Center before joining UW. Her research is primarily in theoretical computer science: the design and analysis of algorithms, particularly algorithmic game theory, probabilistic and online algorithms. She also works at the interface between theory and other areas, such as economics and game theory, data mining, operating systems, networks, and distributed systems.

Chandra KrintzUniversity of California, Santa Barbara



Chandra Krintz is a Professor of Computer Science (CS) at UC Santa Barbara and Chief Scientist at AppScale Systems Inc. Chandra holds M.S./Ph.D. degrees in CS from UC San Diego. Chandra's research interests include programming systems, cloud and "big data"

computing, and the Internet of Things (IoT). Her recent work focuses on combining these technologies and making them "consumable" by non-experts, e.g. SmartFarm helps growers and ranchers with decision support for more productive and sustainable food production and Vigilance helps people with Type 1 Diabetes more effectively manage their disease.

Chandra has also supervised and mentored over 60 students, has published numerous research articles in venues such as ASPLOS, ECOOP, HotCloud, IEEE Cloud, PLDI, OOPSLA and others, participates in efforts to broaden participation in computing, and is the progenitor of AppScale -- the open source cloud runtime that mirrors Google's cloud platform App Engine. Chandra's efforts have been recognized with

a NSF CAREER award, the CRA-W Anita Borg Early Career Award (BECA), the UCSB Academic Senate Distinguished Teaching Award, and with selection as a Cloud Computing Pioneer by Information Week.

Jim Kurose National Science Foundation



Dr. Jim Kurose is the Assistant
Director of the National Science
Foundation (NSF) for Computer
and Information Science and
Engineering (CISE). He leads the
CISE Directorate, with an annual
budget of more than \$900 million,
in its mission to uphold the
nation's leadership in scientific

discovery and engineering innovation through its support of fundamental research in computer and information science and engineering and transformative advances in cyberinfrastructure. Dr. Kurose is on leave from the University of Massachusetts, Amherst (UMass Amherst), where he has been a Distinguished Professor at the School of Computer Science since 2004. He has also served in a number of administrative roles at UMass, helped lead the founding of the Massachusetts Green High Performance Computing Center, and has been a Visiting Scientist at IBM Research; INRIA; Institut EURECOM; the University of Paris; the Laboratory for Information, Network and Communication Sciences; and Technicolor Research Labs.

His research interests include network protocols and architecture, network measurement, sensor networks. multimedia communication, and modeling and performance evaluation. Dr. Kurose has served on many national and international advisory boards, including the Board of Directors for the Computing Research Association and the CISE Advisory Committee, and has received numerous awards for his research and teaching. With Keith Ross, he is the co-author of the textbook, Computer Networking, a top down approach (6th edition) published by Addison-Wesley/Pearson. Dr. Kurose received his Ph.D. in computer science from Columbia University and a Bachelor of Arts degree in physics from Wesleyan University. He is a Fellow of the Association for Computing Machinery (ACM) and the Institute of Electrical and Electronic Engineers (IEEE).

Patty Lopez **Intel Corporation**



Dr. Patty Lopez is a Senior Platform Applications Engineer at Intel Corporation, working with customers to deliver Xeon server chip solutions that power high end data centers and mission critical applications. Prior to joining Intel in 2008, she spent 19 years as an Imaging

Scientist for Hewlett Packard, creating and transferring technology in imaging into scanner, camera, and all-in-one products. She has released over fifty products and holds seven imaging patents. She earned her BS (with honors). MS. and PhD in Computer Science from New Mexico State University (NMSU).

Dr. Lopez has served or is currently serving on the advisory boards of the Computing Research Association-Women (CRA-W), the Computing Alliance of Hispanic Serving Institutions (CAHSI), the NMSU Foundation, and the NMSU Computer Science Department. She is an emerita board member for the Anita Borg Institute, is a Distinguished Alumna for the NMSU College of Arts and Sciences received the HENAAC/Great Minds in STEM Community Service Award in 2010. A founding member and co-chair of Latinas in Computing, a MentorNet mentor, and a member of the NCWIT Workforce Alliance, Patty has been active for the past several years on the Grace Hopper Celebration of Women in Computing Conference organizing committee, and served as the 2013 GHC General Co-Chair (Industry). Her research interests include CS education, E-textiles, and wearable computing. Her volunteer efforts are focused on building the STEM pipeline for K-16 and beyond, and creating an inclusive organizational culture in the workplace.

Kathryn McKinley

Microsoft Research



Kathryn S. McKinley is a Principal Research at Microsoft. She was previously an Endowed Professor of Computer Science at The University of Texas at Austin. She is interested in creating systems (programming languages, compilers, runtimes, and architectures) that make

programming easy and the resulting programs correct and efficient. She has graduated 21 PhD students. Her awards include the ACM SIGPLAN Programming Languages Software Award; ACM SIGPLAN Distinguished Service Award; and best & test of time awards from ASPLOS, OOPSLA, ICS, SIGMETRICS, IEEE Top Picks, SIGPLAN Research Highlights, and CACM Research Highlights. She served as program chair for ASPLOS, PACT, PLDI, ISMM, and CGO. She is currently a DARPA ISAT, CRA, and CRA-W Board member. Dr. McKinley was honored to testify to the House Science Committee (Feb. 14, 2013). She and her husband have three sons. She is an IEEE and ACM Fellow.

Gail Murphy **University of British Columbia**



Gail C. Murphy is a Professor of Computer Science and Associate Dean (Research & Graduate Studies) in the Faculty of Science at the University of British Columbia (UBC) in Vancouver Canada. She is also a co-founder and Chief Scientist at Tasktop Technologies Inc. Before returning

to graduate school and obtaining her MS and PhD degrees at the University of Washington, she worked in industry as a software developer for 5 years. Her research interests are in improving the productivity of software developers and knowledge workers by giving them tools to identify, manage and coordinate the information that really matters for their work.

She is an active member of the software engineering research community, serving as an Associate Editor for Communications of the ACM and for IEEE Transactions on Software Engineering. Previously, she has served as an Associate Editor for the ACM Transactions

on Software Engineering and Methodology journal, served as co-Program Chair for ICSE 2012 and Program Chair for FSE 2008. She is currently serving as the program chair for Onward! Papers 2015. Her work has been recognized through several awards including the AITO Dahl-Nygaard Junior Prize (2005), a NSERC Steacie Award (2006), a CRA-W Anita Borg Early Careeer Award (2006), a UW College of Engineering Early Career Diamond Award (2008), and a UW CSE Alumni Achievement Award (2014). Her work has also been recognized with two test of time awards: a ACM SIGSOFT Retrospective Paper Award and a ICSE Most Influential Paper award. The absolute best part of how she spends her work is working with fantastic students.

Mondira Pant

Intel



Dr. Mondira (Mandy) Deb Pant received her B.Tech in Computer Science and Engineering from I.I.T Kharagpur, India, a MS in Electrical Engineering and a PhD in Electrical and Computer Engineering from Georgia Institute of Technology, Atlanta, GA. She joined Intel in 2001 as part of the

Alpha team acquisition from Compaq Computer Corporation where she worked since graduating in 2000. Over the past several years, as a lead technologist in the area of power delivery and power management, she investigated and drove several issues in the power space, particularly on-chip power delivery issues, power management and power reduction on the next generation server microprocessors. She has led Intel's die power delivery synergy efforts and recently driven Intel's power delivery Roadmap program. Further, she has also been a key player in driving and deploying Intel's internal innovation programs. In her current role of Academic Research Director at Intel, she loves working with leading academic researchers worldwide and technical experts at Intel to seed and drive research efforts in areas of strategic importance to Intel in particular and the computing industry in general.

She is regarded as a very strong and motivating technical speaker having given numerous invited talks at various conferences and universities, including several keynote talks and Distinguished lectures. She is an active proponent of STE(A)M for Women and young girls and has participated in various efforts in promoting it particularly in the New England area. In 2009, Mandy was recognized by Mass High Tech as one of the top ten upcoming Women to Watch in the New England area. In 2013, she was recognized by the India New England journal as one of the top 20 South Asian Women of 2013 in the New England area. She is recently risen to the Technical Vice-Chair for Intel's biggest internal design conference.

Lori PollockUniversity of Delaware



Dr. Lori Pollock is a Professor in Computer and Information Sciences at University of Delaware. Her current research focuses on software artifact analyses for supporting software engineers during software maintenance, testing, and developing energy-efficient

software. Dr. Pollock is an ACM Distinguished Scientist and has served as Associate Editor for ACM Transactions on Software Engineering and Methodology. As a member and previous co-chair of Computing Research Association's Committee on the Status of Women in Computing Research (CRA-W), she regularly co-organizes and presents at mentoring workshops for women in computing from undergraduates through senior faculty. She leads a team to integrate computer science in middle and high schools in Delaware through teacher professional development. She was awarded University of Delaware's Excellence in Teaching Award, and the University of Delaware's E. A. Trabant Award for Women's Equity. She earned her Ph.D. and M.S. in Computer Science at the University of Pittsburgh in 1986 and 1983, respectively, and her B.S. in Computer Science and Economics at Allegheny College in 1981.

Padma Raghavan Pennsylvania State University



Padma Raghavan is the Associate Vice President for Research and Director of Strategic Initiatives at the Pennsylvania State University, where she is also Distinguished Professor of Computer Science and Engineering. Raghavan is the founding Director of the Penn State Institute for CyberScience.

the coordinating unit on campus for developing interdisciplinary computation and data-enabled science and engineering. Prior to joining Penn State in August 2000, she served as an associate professor in the Department of Computer Science at the University of Tennessee. Raghavan's research is in the area of high-performance computing and its applications with a particular focus on sparse graph and matrix problems. She has over hundred peer-reviewed publications in three major areas including: scalable parallel computing; energy-aware supercomputing; and computational modeling, simulation and knowledge extraction.

Raghavan currently serves on the editorial boards of the SIAM series on Computational Science and Engineering, the SIAM Series on Software, Environments and Tools, and the Journal of Parallel and Distributed Computing. She co-chaired Technical Papers for Supercomputing 2012 and the 2011 SIAM Conference on Computational Science and Engineering and she serves on various advisory and review boards including the National Research Council's Committee on 21st Future Directions for NSF Advanced Computing Infrastructure to Support U.S. Science in 2017-2020. the National Academies Panel on Information Science at the Army Research Laboratory and the Computing Research Association's Committee on the Status of Women in Computing. Raghavan is a Fellow of the IEEE and she received an NSF CAREER award and the Maria Goeppert-Mayer Distinguished Scholar award from the University of Chicago and the Argonne National Laboratory, in recognition of her contributions to scalable parallel computing. Raghavan received her Ph.D. in computer science from Penn State.

Suju Rajan Yahoo Labs



Suju Rajan is a Research Director with the Personalization Science team at Yahoo Labs. At Yahoo, her team works on personalizing user experiences, measured by the relevance and timeliness of content items surfaced to the users. Her research interests are in content enrichment, user

modeling, recommendation systems, information retrieval and ranking. She received her PhD from the University of Texas at Austin, focusing on semisupervised and active learning based classification for dynamic environments.

Susan Rodger **Duke University**



Susan Rodger is a Professor of the Practice in the Department of Computer Science at Duke University. She was previously an Assistant Professor in the Computer Science Department at Rensselaer Polytechnic Institute. She received her PhD in Computer Science from Purdue

University, and her B.S. in Computer Science and Mathematics from North Carolina State University. Her research is in visualization, algorithm animation, and computer science education. She has developed JFLAP, software for experimenting with formal languages and automata that is used in courses worldwide.

JFLAP was recognized as one of two finalist candidates in the NEEDS Premier Award for Excellence in Engineering Education Courseware in 2007. Rodger leads the Adventures in Alice Programming project and has led professional development workshops in programming for over 250 K-12 teachers. Rodger has supervised 1 PhD student, 15 masters students and over seventy undergraduate students in research projects. Rodger is Chair of the SIGCSE Board, is on the CRA-W Board, and is a member of the ACM Education Policy Committee. She received the ACM Distinguished Educator award in 2006 and the 2013 ACM Karl V. Karlstrom Distinguished Educator Award in 2014.

Sami RollinsUniversity of San Francisco



Sami Rollins is an Associate Professor and Chair of Computer Science at the University of San Francisco. She has published extensively in the areas of pervasive and mobile computing, peer-to-peer computing, and Computer Science education. She is also extremely committed to

increasing the participation of women and minorities in the field of computer science.

Holly RushmeierYale University



Holly Rushmeier received the BS, MS and PhD degrees in Mechanical Engineering from Cornell University in 1977, 1986 and 1988 respectively. Between receiving the BS and returning to graduate school in 1983 she worked as an engineer at the Boeing Commercial Airplane

Company and at Washington Natural Gas Company (now a part of Puget Sound Energy). In 1988 she joined the Mechanical Engineering faculty at Georgia Tech. In 1991 she joined the computing and mathematics staff of the National Institute of Standards and Technology. From 1996 to early 2004 Rushmeier was a research staff member at the IBM TJ Watson Research Center Rushmeier was Editor-in-Chief of ACM Transactions on Graphics from 1996-99 and co-EiC of Computer Graphics Forum (2010-2014). She has also served on the editorial boards of IEEE Transactions on Visualization and Computer Graphics and IEEE Computer Graphics and Applications. She currently serves the editorial boards of ACM Transactions on Applied Perception, ACM Journal of Computing and Cultural Heritage, the Visual Computer and Computers and Graphics. Rushmeier served as chair of the Computer Science Department, July 2011- July 2014.

Amanda Stent

Vahoo Labs



Amanda Stent is a Principal Research Scientist at Yahoo Labs in New York, where she managed a team working on summarization and discourse processing. Her research interests center around natural language processing and include discourse, interaction and natural language generation. She

is coeditor of the recently published book Natural Language Generation in Interactive Systems, co-author of over 75 peer-reviewed publications, and co-inventor on several patents.

Tiffani WilliamsTexas A&M University



Tiffani L. Williams is an Associate Professor in the Department of Computer Science and Engineering at Texas A&M University. She earned her B.S in computer science from Marquette University and Ph.D. in computer science from the University of Central Florida. Afterward, she

was a postdoctoral fellow at the University of New Mexico. Her honors include a Radcliffe Fellowship, an Alfred P. Sloan Foundation Postdoctoral Fellowship, and a Denice Denton Emerging Leader Award. Her research interests are in the areas of bioinformatics and high-performance computing.

Rita Wouhaybi

Intel Labs



Rita H. Wouhaybi is a research scientist with Intel Labs Systems and Software Research at Intel Corporation. she received a Ph.D. in Electrical Engineering from Columbia University in 2006. She holds a Bachelor and a Master degrees in Computer and Communications Engineering

from the American University of Beirut. Rita's career includes more than 12 years of industry experience, with diverse roles in engineering, management and

research. Her research interests include peer-topeer and distributed networks, game theory, and the use of machine learning in networking and social networks.

Her current work is focused on enabling users to take ownership and make sense of their personal data. Rita holds 7 patents in the field of social networking, computer networking and context-aware computing. She had additionally filed over 80 patents. Her research has been published in over 20 papers in acclaimed IEEE and ACM conferences and journals. Rita was the recipient of several awards for both academic and industry achievements, including New Investigator Award at Grace Hopper Celebration of Women in Computing, and best paper award at ACM Wireless Health.

Yuanyuan ZhouUniversity of California, San Diego



Yuanyuan Zhou is currently a Qualcomm Chair Professor at UC-San Diego. Before UCSD, she was a tenured associate professor at University of Illinois at Urbana Champaign. Her research interests span the areas of

operating systems, software engineering, system reliability and maintainability. She has co-founded three startups. Her recent startup, PatternInsight, has successfully deployed software quality assurance tools in many companies and in 2012 its Log Insight business line was acquired by VmWare and now Log Insight is a VmWare Product offering to its many data center customers for data center management. Dr. Zhou is an ACM Fellow and IEEE Fellow. She obtained her Ph.D from Princeton. She is fortunate to have the great opportunity of working with many talented students and colleagues.

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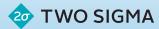






























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Melissa Borts, Computing Research Association Sandra Corbett, Computing Research Association Sabrina Jacob, Computing Research Association Erik Russell, Computing Research Association

The Computing Research Association's Committee on the Status of Women in Computing Research (CRA-W) is an action oriented organization dedicated to increasing the number of women participating in Computer Science and Engineering (CSE) research and education at all levels. In addition to increasing the number of women involved, we also seek to increase the degree of success they experience and to provide a forum for addressing problems that often fall disproportionately within women's domain. We are hopeful that the committee activities will also have a positive impact for other underrepresented groups in CSE and we are committed to improving the working environment for Computer Scientists and Engineers of both genders.

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