

Grad Cohort



April 11 – 12, 2014

Hyatt Regency,
Santa Clara, California

www.cra-w.org

PROGRAM



Agenda

Friday, April 11, 2014

7:30 - 8:45	Registration – Santa Clara Ballroom Foyer		
7:30 - 8:45	Breakfast – Terra Courtyard		
8:45 - 9:15 <i>Speaker(s):</i>	Welcome – Santa Clara Ballroom Lori Clarke (University of Massachusetts-Amherst), Sandhya Dwarkadas (University of Rochester), and Lori Pollock (University of Delaware)		
9:15 - 10:15 <i>Speaker(s):</i>	First year Santa Clara Ballroom	Second year Magnolia	Third year Bayshore
	Networking Tracy Camp	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 <i>Speaker(s):</i>	Master's vs. Ph.D. Maria Gini, Eren Kursun	Finding a Research Topic (including Interdisciplinary) Yuanyuan Zhou	Publishing Your Research Holly Rushmeier
11:45 - 1:15	Lunch – Birds of a Feather: Student Proposed Research Topics (Terra Courtyard)		
1:15 - 2:15 <i>Speaker(s):</i>	Finding and Training Your Advisor Lori Clarke	Balancing Graduate School and Personal Life Yanlei Diao, Angela Demke Brown	Ph.D. Non-Academic Career Paths and Job Search Kim Hazelwood, Eren Kursun, Jamika Burge
2:15 - 2:45	Break		
2:45 - 3:45 <i>Speaker(s):</i>	Future of Computer Science Dr. Farnam Jahanian (National Science Foundation)		
3:45 - 4:00	Break		
4:00 - 5:30	Poster Session – Mezzanine East & West		
6:30 - 10:30	Reception hosted by Microsoft Research – Santa Clara Ballroom		

Agenda continued

Saturday, April 12, 2014

7:30 - 8:30	Breakfast – Terra Courtyard		
8:30 - 9:30 <i>Speaker(s):</i>	Strategies for Human-Human Interaction – Santa Clara Ballroom Amanda Stent, Laura Haas, Margaret Martonosi		
9:30 - 9:45	Break		
	First year <i>Santa Clara Ballroom</i>	Second year <i>Magnolia</i>	Third year <i>Bayshore</i>
9:45 - 10:45 <i>Speaker(s):</i>	Financially Supporting your Graduate Education Maria Gini, Jamika Burge	M.S. Career Opportunities and Job Search Rane Johnson, Dana Gharda, Desiree Caballero	Ph.D. Academic Career Paths and Job Search Susan Rodger, Margaret Martonosi
10:45 - 11:15	Break		
11:15 - 12:15 <i>Speaker(s):</i>	Summer Internships Laura Haas, Dilma DaSilva	Building Self-Confidence Julia Hirschberg	Building Your Professional Persona Amanda Stent, Ayanna Howard
12:15 - 12:30 <i>Speaker(s):</i>	Wrap-Up & Final Remarks – Santa Clara Ballroom Lori Clarke (University of Massachusetts-Amherst), Sandhya Dwarkadas (University of Rochester), and Lori Pollock (University of Delaware)		
12:30 - 1:30	Lunch – Cohort Networking: First, Second, and Third Year (<i>Terra Courtyard</i>)		
1:30 - 2:30	Resume Writing Clinic <i>Santa Clara Ballroom</i>	Individual Advising <i>Santa Clara Ballroom</i>	

Grad Cohort Sessions

Friday, April 11, 2014

9:15 - 10:15

*Santa Clara
Ballroom*

Networking

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 do when you attend conferences, workshops, or any technical meeting, including meeting researchers visiting your department.

Tracy Camp, Colorado School of Mines

9:15 - 10:15

Magnolia

Presentation and Other Verbal Communication Skills

This session will focus on building your oral communication skills. Topics include strategies for high quality oral and poster presentations. A typical outline for a presentation will be given along with a list of suggested do's and don'ts.

Kathryn Mckinley, Microsoft Research

9:15 - 10:15

Bayshore

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

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 strategies for taking a lead role in your research group, writing papers, managing your dissertation writing process, and promoting yourself.

Nancy Amato, Texas A&M University

10:45 - 11:45

*Santa Clara
Ballroom*

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

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.

**Maria Gini, University of Minnesota
Eren Kursun, JPM**

10:45 - 11:45

Magnolia

Finding a Research Topic

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.

Yuanyuan Zhou, University of California San Diego

10:45 - 11:45 Publishing Your Research*Bayshore*

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 ethical concerns of publishing such as plagiarism, dual submissions, and author ordering.

Holly Rushmeier, Yale University

1:15 - 2:15*Santa Clara
Ballroom***Finding and Training Your Advisor**

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.

Lori Clarke, University of Massachusetts Amherst (CRA-W Grad Cohort Co-Chair)

1:15 - 2:15*Magnolia***Balancing Graduate School and Personal Life**

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, decision-making strategies when career and family priorities seem to collide, and re-evaluating your personal and career goals and initiating changes.

Yanlei Diao, University of Massachusetts Amherst
Angela Demke Brown, University of Toronto

1:15 - 2:15*Bayshore***Ph.D. Non-Academic Career Paths and Job Search:
Industrial Research & Development**

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.

Kim Hazelwood, Google
Eren Kursun, JPM
Jamika D. Burge, Information Systems Worldwide/DARPA

2:45 - 3:45*Santa Clara
Ballroom***Future of Computer Science**

Dr. Farnam Jahanian, National Science Foundation

Grad Cohort Sessions *continued*

Saturday, April 12, 2014

8:30 - 9:30

*Santa Clara
Ballroom*

Strategies for Human-Human Interaction

This session will focus on strategies for productive interaction with faculty, other students, and work colleagues, 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.

Amanda Stent, Yahoo Labs
Laura Haas, IBM Research
Margaret Martonosi, Princeton University

9:45 - 10:45

*Santa Clara
Ballroom*

Financially Supporting Your Graduate Education

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. The session will also address how to survive temporary funding shortfalls/lapses.

Maria Gini, University of Minnesota
Jamika D. Burge, Information Systems Worldwide/DARPA

9:45 - 10:45

Magnolia

M.S. Career Opportunities and Job Search

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, 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.

Rane Johnson-Stempson, Microsoft Research
Dana Gharda, @WalmartLabs
Desiree Caballero, Google

9:45 - 10:45

Bayshore

Ph.D. Academic Career Paths and Job Search

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 depend 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. This session also focuses on how you should prepare for the job search process: preparing for the interview, what questions to ask and what questions will be asked of you during the interview, what to do after the interview, deciding between multiple offers. The session will also highlight what you should be doing now to plan for your career.

Susan Rodger, Duke University
Margaret Martonosi, Princeton University

11:15 - 12:15*Santa Clara
Ballroom*

Summer Internships

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.

Laura Haas, IBM Research
Dilma Da Silva, Qualcomm Research

11:15 - 12:15*Magnolia*

Building Self-Confidence

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 having your work rejected by a conference, 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.

Julia Hirschberg, Columbia University

11:15 - 12:15*Bayshore*

Building Your Professional Persona

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.

Amanda Stent, Yahoo Labs
Ayanna Howard, Georgia Institute of Technology

1:30 - 2:30*Santa Clara
Ballroom*

Resume Writing Clinic

This session will provide participants an opportunity to meet with technical women from industry and academia to review and discuss their resume. Please bring 2-3 copies of your resume with you to this session.

1:30 - 2:30*Santa Clara
Ballroom*

Individual Advising

This session will provide participants an opportunity to meet with technical women from industry and academia to review and discuss their research and/or career goals. Please come prepared with a few questions regarding your graduate experience that you would like to have answered.



Speakers



Nancy M. Amato, Texas A&M University

Nancy M. Amato is Unocal Professor and Interim Department Head of the Department of Computer Science and Engineering at Texas A&M University where she co-directs the Parasol Lab. Her main areas of research focus are motion planning and robotics, computational biology and geometry, and parallel and distributed computing. 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, respectively. 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 served as the Editor-in-Chief of the IEEE/RSJ IROS Conference Paper Review Board and will be program chair for IEEE ICRA 2015. She was co-Chair of the National Center for Women in Information Technology (NCWIT) Academic Alliance, and currently serves on the CRA-W, CRA-E, and CDC committees. She is a Fellow of the American Association for the Advancement of Science (AAAS), a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), a Fellow of the World Technology Network (WTN).



Angela Demke Brown, University of Toronto

Angela Demke Brown is an Associate Professor in the Department of Computer Science at the University of Toronto. Following a B.Sc. from York University, she received her M.Sc. from the University of Toronto and her PhD from Carnegie Mellon University, both under the supervision of Todd Mowry. Her thesis work on compiler-based memory management for out-of-core applications received the Carnegie Mellon Doctoral Dissertation Award and was nominated for the ACM Doctoral Dissertation Award. Her research interests span the intersection of programming languages and operating systems, with a focus on applying high-level static or dynamic analysis tools to improve the performance and reliability of low-level systems software. In 2008 she received a teaching award from the Computer Science Students Union. Dr. Brown was an IBM Faculty Fellow and Visiting Scientist from 2004 to 2007; in 2005 her research group received the IBM Centre for Advanced Studies "Team of the Year" award. She has also held a NetApp Faculty Fellowship. Dr. Brown is a member of the ACM, IEEE and USENIX.



Jamika D. Burge, Information Systems Worldwide/ DARPA

Jamika D. Burge is a Senior Scientist at Information Systems Worldwide, a technology, engineering, and research company providing high-end advanced technical, integration, engineering, and analysis solutions to the US Government and other organizations, where she is currently serving as a technical consultant and subject matter expert (SME) for Defense Advanced Research Projects Agency (DARPA). From 2007-2009, she was a postdoctoral research scholar at The Pennsylvania State University focusing on community informatics. She earned her PhD in computer science and applications from Virginia Polytechnic Institute & State University (Virginia Tech), where she was an IBM Research Fellow and won an IBM Research Dissertation Fellowship. As a graduate student, her research and perspectives were featured in the New York Times and Computerworld. She currently chairs the Coalition to Diversify Computing (CDC), a CRA-supported organization, which works to increase the number of women and underrepresented students and professionals in computing research.



Desiree Caballero, Google

Desiree Caballero is a specialist on the Student Development Team at Google. She is responsible for leading Google's presence and strategy for student conferences in North America. Such conferences include, Society of Women Engineers and the Grace Hopper Celebration of Women in Computing. Desiree received her B.A. in Mass Communication from the University of California, Berkeley in 2008.



Tracy Camp, Colorado School of Mines

Tracy Camp is a Full Professor of Computer Science in the Department of Electrical Engineering and Computer Science at the Colorado School of Mines. Her current research interests include the credibility of ad hoc network simulation studies and the use of wireless sensor networks in geosystems. Dr. Camp has received over 20 grants from the National Science Foundation, including a prestigious NSF CAREER award. In total, her projects have received over \$20 million dollars in external funding. This funding has produced 12 software packages that have been requested from (and shared with) more than 3000 researchers in 86 countries (as of October 2012). Dr. Camp has published over 80 refereed articles and 12 invited articles, and these articles have been cited almost 8,000 times (per Google Scholar) as of August 2013. Dr. Camp is an ACM Fellow, an ACM Distinguished Lecturer, and an IEEE Senior Member. She shares her life with Max (born in 2000), Emma (born in 2003), her husband (Glen), and two cats. The four humans are vegetarians who tremendously enjoy living in the foothills of the Rockies.



Lori Clarke, (CRA-W Grad Cohort Co-Chair), University of Massachusetts Amherst

Lori A. Clarke is chair of the School of Computer Science at the University of Massachusetts, Amherst and is 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 received the 2012 ACM Special Interest Group on Software Engineering (SIGSOFT) Outstanding Research Award, the 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, the 2002 SIGSOFT Distinguished Service Award, a 1993 University Faculty Fellowship, and the 1991 University of Massachusetts Distinguished Faculty Chancellor's Medal. 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 Transactions on Programming Languages and Systems (TOPLAS) and IEEE Transactions on Software Engineering (TSE), member of the CCR NSF advisory board, ACM SIGSOFT secretary/treasurer, vice-chair and chair, IEEE Distinguished Visitor, and ACM National Lecturer. She has written numerous papers, served on many program committees, and was program co-chair of the 14th and general chair of the 25th International Conference on Software Engineering. She has been a Principal Investigator on a number of NSF, DoD, and DARPA projects. Dr. Clarke's research is in the area of software engineering, primarily focusing on verification and requirements engineering for human-intensive systems. She has been investigating techniques for detecting errors and safety and security vulnerabilities in complex processes in domains such as healthcare and digital government. She is also involved in several efforts to increase participation of underrepresented groups in computing research.

Speakers *continued*



Dilma Da Silva, Qualcomm Research

Dilma Da Silva is a Principal Engineer and Manager at Qualcomm Research in Santa Clara, California. She leads the area of mobile cloud computing. Her prior work experience includes IBM T. J. Watson Research Center, in New York (2000-2012) and University of Sao Paulo in Brazil (1996-2000). Her research activities have been around scalable and adaptive system software, focusing in the last 4 years on cloud computing, and currently exploring mobile cloud computing. She received her Ph.D in Computer Science from Georgia Tech in 1997. She has published more than 80 technical papers and filed 12 patents. Dilma is an ACM Distinguished Scientist, an ACM Distinguished Speaker, a member of the board of CRA-W (Computer Research Association's Committee on the Status of Women in Computing Research), of the CDC (Coalition for Diversifying Computing), a co-founder of the Latinas in Computing group, and treasurer/secretary for ACM SIGOPS. More information is available at www.dilmamds.com.



Yanlei Diao, University of Massachusetts Amherst

Yanlei Diao is Associate Professor of Computer Science at the University of Massachusetts Amherst. Her research interests are in information architectures and data management systems, with a focus on big data analytics, data streams, uncertain data management, and RFID and sensor data management. She received her PhD in Computer Science from the University of California, Berkeley in 2005, her M.S. in Computer Science from the Hong Kong University of Science and Technology in 2000, and her B.S. in Computer Science from Fudan University in 1998. Yanlei Diao was a recipient of the CRA-W Borg Early Career Award, NSF Career Award, and the IBM Scalable Innovation Faculty Award, and she was a finalist of the Microsoft Research New Faculty Fellowship. She spoke at the Distinguished Faculty Lecture Series at the University of Texas at Austin. Her PhD dissertation "Query Processing for Large-Scale XML Message Brokering" won the 2006 ACM-SIGMOD Dissertation Award Honorable Mention. She is currently Editor-in-Chief of ACM SIGMOD Record and Associate Editor of ACM TODS. In the past, she has served on the organizing committees of SIGMOD, CIDR, DMSN, the New Researcher Symposium, and the New England Database Summit, as well as on the program committees of many international conferences and workshops.



Sandhya Dwarkadas, (CRA-W Grad Cohort Co-Chair), University of Rochester

Sandhya Dwarkadas is a Professor 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, in 1986, and her M.S. and Ph.D. from Rice University in 1989 and 1993, respectively. 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 10 granted U.S. patents. She is a CRA-W board member and is currently associate editor of two journals: Journal of Parallel and Distributed Computing (JPDC) 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. URL: <http://www.cs.rochester.edu/u/sandhya>



Dana Gharda, @WalmartLabs

Dana Gharda is a campus recruitment professional with many years of experience in technology and biotech industries. Over her career, she has hired more than 1,000 interns and new college graduates in science and technology roles. Dana is currently leading the University Relations efforts at @WalmartLabs. Prior to this role she worked at Genentech, Life Technologies (now ThermoFisher), VeriSign and Applied Materials. Dana is an active member of NACE (National Association of Colleges and Employers) and has active participated in organization's committees. Dana is a New Mexico native, who has lived in the Bay Area for over 10 years. She and her husband live in Belmont with their rambunctious cat, Leo.



Maria Gini, University of Minnesota

Maria Gini is a Professor in the Department of Computer Science and Engineering at the University of Minnesota. She studies decision making for autonomous agents in a variety of applications and contexts, ranging from distributed methods for allocation of tasks, to methods for robots to explore an unknown environment, teamwork for search and rescue, and shared mental models for agents to collaborate with humans. She is a Fellow of the Association for the Advancement of Artificial Intelligence, and a Distinguished Professor of the College of Science and Engineering at the University of Minnesota. She is on the editorial board of numerous journals, including Artificial Intelligence, Autonomous Agents and Multi-Agent Systems, Robotics and Autonomous Systems.



Laura Haas, IBM Research

Laura Haas is an IBM Fellow and Director of IBM Research's Accelerated Discovery Lab. She was the director of computer science at IBM Almaden Research Center from 2005-2011, and had worldwide responsibility for IBM Research's exploratory science program from 2009 through 2013. Previously, Dr. Haas was responsible for Information Integration Solutions (IIS) architecture in IBM's Software Group after leading the IIS development team through its first two years. She joined the development team in 2001 as manager of DB2 UDB Query Compiler development. Before that, Dr. Haas was a research staff member and manager at the Almaden lab for nearly twenty years. In IBM Research, she worked on and managed a number of exploratory projects in distributed database systems. Dr. Haas is best known for her work on the Starburst query processor (from which DB2 UDB was developed); on Garlic, a system which allowed federation of heterogeneous data sources; and on Clio, the first semi-automatic tool for heterogeneous schema mapping. Garlic technology, married with DB2 UDB query processing, is the basis for the IBM InfoSphere Federation Server, while Clio capabilities are a core differentiator in IBM's InfoSphere Data Architect. Dr. Haas is an active member of the database community. She served as Vice President of the VLDB Endowment Board of Trustees from 2004-2009 and was vice chair of ACM SIGMOD from 1989-1997. Dr. Haas has received several IBM awards for Outstanding Technical Achievement and Outstanding Innovation, and an IBM Corporate Award for her work on federated database technology. In 2010 she was recognized with the Anita Borg Institute Technical Leadership Award. She is a member of the National Academy of Engineering and the IBM Academy of Technology, an ACM Fellow, and Vice Chair of the board of the Computing Research Association. Dr. Haas received her PhD from the University of Texas at Austin, and her bachelor degree from Harvard University.



Kim Hazelwood, Google

Kim Hazelwood is a Senior Software Engineer in the Datacenter Performance Team at Google in Mountain View, California. She focuses on performance analysis of large datacenter applications to drive the hardware roadmap in the Google datacenters. Prior to joining Google, she was a tenured Associate Professor at the University of Virginia and an Intel Faculty Consultant for 7 years. Her work has focused on performance analysis tools, computer architecture, code optimization, and hardware/software co-design. She has a Ph.D. in Computer Science from Harvard University. She has over 40 publications, has authored one book, and is the recipient of numerous awards, including the Top 35 Innovators under 35, the Anita Borg Early Career Award, and the National Science Foundation Career Award.

Speakers *continued*



Julia Hirschberg, Columbia University

Julia Hirschberg is Percy K. and Vida L. W. Hudson Professor of Computer Science and Chair of the Computer Science Department at Columbia University. She received her PhD in Computer Science from the University of Pennsylvania. She worked at Bell Laboratories and AT&T Laboratories -- Research from 1985-2003 as a Member of Technical Staff and a Department Head, creating the Human-Computer Interface Research Department. She served as editor-in-chief of Computational Linguistics from 1993-2003 and co-editor-in-chief of Speech Communication from 2003-2006 and is now on the Editorial Board. She was on the Executive Board of the Association for Computational Linguistics (ACL) from 1993-2003, on the Permanent Council of International Conference on Spoken Language Processing (ICSLP) since 1996, and on the board of the International Speech Communication Association (ISCA) from 1999-2007 (as President 2005-2007, Advisory Council 2007--). She now serves on the IEEE Speech and Language Processing Technical Committee, the Executive Board of the CRA, the AAAI Council, the Executive Board of the NAACL, and the board of the CRA-W. She has been active in working for diversity at AT&T and at Columbia. She has been a AAAI fellow since 1994, an ISCA Fellow since 2008, and a (founding) ACL Fellow since 2011. She received an Honorary Doctorate (Hedersdoktor) from KTH in 2007, a Columbia Engineering School Alumni Association (CESAA) Distinguished Faculty Teaching Award in 2009, the IEEE James L. Flanagan Speech and Audio Processing Award in 2011, and the ISCA Medal for Scientific Achievement in 2011.



Ayanna Howard, Georgia 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 130 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. 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.



Farnam Jahanian, National Science Foundation

Farnam Jahanian leads the United States National Science Foundation Directorate for Computer and Information Science and Engineering (CISE). He guides CISE in its mission to advance scientific discovery and engineering innovation through its support of fundamental research and transformative advances in cyberinfrastructure. Dr. Jahanian is on leave from the University of Michigan, where he holds the Edward S. Davidson Collegiate Professorship and served as Chair for Computer Science and Engineering from 2007 – 2011. His research on Internet infrastructure security formed the basis for the Internet security company Arbor Networks, which he co-founded in 2001 and served as Chairman until its acquisition in 2010. He has received numerous awards for his innovative research, commitment to education, and technology commercialization activities. Dr. Jahanian holds a master's degree and a Ph.D. in Computer Science from the University of Texas at Austin. He is a Fellow of ACM, IEEE, and AAAS.



Rane Johnson-Stempson, Microsoft Research

Rane Johnson-Stempson engages with academics worldwide and identifies high-impact areas for research investigations. She is the lead for growing, attracting and retaining women in research, science and engineering. She is actively working to grow the pipeline of women in research, science and engineering. She has been selected to lead several Whitehouse committees to support human trafficking and technology inclusion. Previously, as the Director of Education Strategy she was responsible for multi-stakeholder partnerships, Cisco-Intel-Microsoft Alliance, World Economic Forum Global Education Initiative and helping local teams around the world to use the power of technology as an accelerator to transform education to meet local government priorities to drive economic and workforce development in the 21st century. She currently serves on the advisory board for the University of Washington iSchool, Anita Borg Institute, ACM-W, Womensphere, Tech Alliance and Bucknell Engineering Excellence Program.



Eren Kursun, JPM

Dr. Eren Kursun is a Senior Program Manager and Researcher, specializing in emerging technology development and strategy. Dr. Kursun received her Masters and Ph.D. in Computer Science from University of California Los Angeles, Bachelors of Science in Electrical and Electronics Engineering from Bosphorus University/Roberts College. Dr. Kursun has lead numerous research and development projects, ranging from 3D integrated systems, energy efficient system design to emerging cloud technologies and analytics. Her work received best paper awards at IEEE International Symposium on Low Power Design (ISLPED) in 2011, IEEE/ACM International Conference on Computer Design (ICCD) in 2008, IEEE Top Picks in 2009 and IBMs Outstanding Research Accomplishment Award.



Margaret Martonosi, Princeton University

Margaret Martonosi is the Hugh Trumbull Adams '35 Professor of Computer Science at Princeton University, where she has been on the faculty since 1994. Martonosi's research focuses on computer architecture and mobile computing, particularly power-efficient systems. Past projects include the Wattch power modeling tool and the ZebraNet mobile sensor network, which was deployed for wildlife tracking in Kenya. Martonosi is a Fellow of both IEEE and ACM. Her major awards include Princeton University's 2010 Graduate Mentoring Award, the Anita Borg Institute's 2013 Technical Leadership Award, and NCWIT's 2013 Undergraduate Research Mentoring Award.

Speakers *continued*



Kathryn S 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 and received her PhD, MS, and BA from Rice University. Her research interests span programming language implementation, architecture, security, performance, and energy. She and her collaborators have produced widely used tools: the DaCapo Java Benchmarks, TRIPS Compiler, Hoard memory manager, MMTk garbage collector toolkit, and Immix garbage collector. Her awards include the 2012 ACM SIGPLAN Programming Languages Software Award, the 2011 ACM SIGPLAN Distinguished Service Award, ASPLOS 2009 Best Paper Award, 2012 IEEE Top Picks, CACM Research Highlights (2006, 2012), Most Influential OOPSLA Paper Award from 2002 (awarded 2012), IBM Faculty Fellowships, NSF Career Award, and the 2012 ACM SIGPLAN Programming Languages Software Award. Her service includes program chair for ASPLOS '04, PACT '05, PLDI '07, ISMM'12, and CGO'13; Editor-in-Chief of ACM Transactions on Programming Language Systems (TOPLAS) (2007-2010); DARPA ISAT member (2012-present), CRA Board member (2012-present), and CRA-W co-chair (2011-present). Dr. McKinley was honored to testify to the House Science Committee (Feb. 14, 2013). Her husband Scotty Strahan is an artist and they have three sons. She has graduated 17 PhD students. She is an IEEE Fellow and an ACM Fellow.



Lori Pollock, (CRA-W Grad Cohort Co-Chair), University of Delaware

Dr. Lori Pollock is a Professor in Computer and Information Sciences at University of Delaware. Her current research focuses on developing automatic software analyses for better software maintenance tools, software testing, and green software engineering. Dr. Pollock is an ACM Distinguished Scientist and Associate Editor for ACM Transactions on Software Engineering and Methodology. As a member of Computing Research Association's Committee on the Status of Women in Computing Research, she organized several Career Mentoring and Graduate Cohort workshops, and served as cochair. 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. For 25 years, she has enjoyed mentoring student researchers, teaching computer science with collaborative classroom activities and service learning, and working to increase the successful participation of women in computing research.



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 worked with over 200 K-12 teachers in programming and developing curriculum materials. Rodger has supervised over sixty undergraduate students in research projects. Rodger is Chair of the SIGCSE Board, is on the CRA-W Board, is a member of the ACM Education Policy Committee, and is an ACM Distinguished Educator.



Holly Rushmeier, Yale University

Holly Rushmeier is a professor of Computer Science at Yale University. She received the BS(1977), MS(1986), and PhD(1988) in Mechanical Engineering from Cornell University. Since receiving the PhD she has held positions at Georgia Tech, NIST and IBM TJ Watson Research. Her area of interest is computer graphics. Her current research focuses on scanning and modeling of shape and appearance properties, and on applications in cultural heritage. Her past projects include a project to create a digital model of Michelangelo's Florence Pieta and models of Egyptian cultural artifacts in a joint project between IBM and the Government of Egypt. Dr. Rushmeier has served as co-chair of the ACM Publications Board and serves on the editorial boards of ACM Transactions on Perception, Computer Graphics Forum, the Visual Computer, Computers and Graphics and ACM Journal on Computing and Cultural Heritage. She has served as Editor-in-Chief of ACM Transactions on Graphics and as papers chair or co-chair for several conferences including the ACM SIGGRAPH conference and IEEE Visualization. She is a Eurographics Fellow, ACM Distinguished Engineer and a recipient of the ACM SIGGRAPH Technical Achievement award.



Amanda Stent, Yahoo Labs

Amanda Stent is a computational linguist with particular interest in pragmatics and interaction; she works on dialog systems, natural language summarization for big data, and assistive technology. She is currently a Principal Research Scientist at Yahoo Labs in New York, NY. She has also held positions as a Principal Member of Technical Staff at AT&T Labs - Research and as an associate professor in the Computer Science Department at Stony Brook University. She holds a PhD in computer science from the University of Rochester. She has published over 70 papers on natural language processing, holds several patents and is president of the ACL/ISCA Special Interest Group on Discourse and Dialog. She is a senior member of IEEE and of the ACM.



Yuanyuan Zhou, University of California San Diego

Yuanyuan (YY) Zhou is a Qualcomm Chair Professor UC-San Diego. Prior to that, 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 is an ACM Fellow and obtained her Ph.D from Princeton University. She is fortunate to have worked with many excellent graduate students, many of whom are women students. She has co-founded 3 startups, and has graduated 15 Ph.Ds who are working as professors at top universities including University of Wisconsin-Madison (Woman), University of Waterloo (Woman), University of Toronto, etc, top industry labs and startups. She has two daughters and the older one (9th grade) has prematurely decided to pursue computer science as her career path and is enjoying programming and computer algorithms.

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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.

www.cra-w.org

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