

Jeannie R. Albrecht

CONTACT INFORMATION	Department of Computer Science 47 Lab Campus Dr Williams College Williamstown, MA 01267	<i>Voice:</i> (413) 597-4251 <i>Fax:</i> (413) 597-4250 <i>E-mail:</i> jeannie@cs.williams.edu <i>Web:</i> http://www.cs.williams.edu/~jeannie
EDUCATION	University of California, San Diego Ph.D., Computer Science, June 2007 Advisors: Amin Vahdat and Alex C. Snoeren Dissertation: "Distributed Application Management" Duke University M.S., Computer Science, December 2003 Project: "Developing and Evaluating Novel Network Protocols on Wide-Area Testbeds" Gettysburg College B.S., Computer Science and Mathematics, May 2001 Valedictorian, Summa Cum Laude	La Jolla, California Durham, North Carolina Gettysburg, Pennsylvania
RESEARCH INTERESTS	My research interests include the design and performance of distributed systems, particularly focusing on reliability, scalability, and extensibility achieved in mobile and wide-area networks. I am also interested in green computing initiatives, and am currently investigating ways to minimize energy consumption in buildings using distributed sensors and optimization systems for load management.	
ACADEMIC APPOINTMENTS	Chair of Computer Science July 2017 - present Professor July 2017 - present Associate Professor July 2013 - June 2017 Assistant Professor July 2007 - June 2013 Adjunct Assistant Professor December 2009 - present Research and Teaching Assistant January 2004 - June 2007 Research Assistant August 2001 - December 2003 Research and Teaching Assistant August 1998 - May 2001	<i>Williams College</i> Williamstown, Massachusetts <i>Williams College</i> Williamstown, Massachusetts <i>Williams College</i> Williamstown, Massachusetts <i>Williams College</i> Williamstown, Massachusetts <i>University of Massachusetts Amherst</i> Amherst, Massachusetts <i>University of California, San Diego</i> La Jolla, California <i>Duke University</i> Durham, North Carolina <i>Gettysburg College</i> Gettysburg, Pennsylvania
INDUSTRIAL APPOINTMENTS	Research Intern June 2004 - September 2004 Research Intern May 2003 - August 2003	<i>Hewlett Packard Research Lab</i> Palo Alto, California <i>IBM T.J. Watson Research Center</i> Hawthorne, New York

Programming Intern *CNAV Systems, Inc.* Gettysburg, Pennsylvania
May 2000 - July 2001

Software Tester *Microsoft Corporation* Redmond, Washington
May 1998 - August 1998

COURSES
TAUGHT

Williams College Williamstown, Massachusetts
CSCI 432: Operating Systems
CSCI 339: Distributed Systems
CSCI 237: Computer Organization
CSCI 136: Data Structures and Advanced Programming
CSCI 134: Introduction to Computer Science
CSCI 102: The Socio-Techno Web (Tutorial)
CSCI 010: Untangling the Web: A Social Analysis of the Internet

University of California, San Diego La Jolla, California
CSE 123A: Undergraduate Computer Networks

RESEARCH
STUDENTS

Anjali Pai '19 (Summer 2016)
Katherine Blake '19 (Summer 2016)
Dawn Wu '18 (Summer 2016)
Matt McNaughton '16 (Fall 2015 – Spring 2016) – Honors thesis advisor – now at Flatiron Health
Devin Gardella '16 (Summer 2015 – Spring 2016) – now at Amazon
Gordon (Mac) Finnie '16 (Summer 2014, Summer 2015, Fall 2015)
Sarah Abramson '15 (Summer 2013, Summer 2014) – Honors thesis advisor – now at Google
Abbie Zimmermann-Niefield '15 (Fall 2014 – Spring 2015) – now at Goldman Sachs
Benjamin Jones '15 (Fall 2014)
Simon Chase '14 (Spring 2014) – now at Akamai
Tommy Gaidus '13 – Honors thesis advisor – now at Strava
Jennifer Gossels '13 – Honors thesis advisor – now at Princeton University
Karlán Eberhardt '13 (Summer 2012 & Fall 2012) – now at LeanBox
Pamela Mishkin '16 (Spring 2012) – now at Federal Reserve Bank of New York
Yuxing (Danny) Huang '11 – Honors thesis advisor* – now at UC San Diego
April Shen '13 (Summer 2010) – now at Import.io
Kaylee Weyerhaeuser '11 (Summer 2010) – now at Fiksu, Inc.
Moaj Musthag '10 (Spring 2010) – now at UMass Amherst and Gigwalk
Emily Yu '11 (Spring 2010) – now at Epic Systems
Ville Satopää '11 (Spring 2008 – Spring 2010) – PhD from Penn, now at INSEAD Business School
Antal Spector-Zabusky '12 (Summer 2009 – Spring 2010) – 2010 Goldwater scholar*, now at Penn
Kelsey Levine '10 (Summer 2009, Summer 2012 – Spring 2014) – founded Reline, a mobile app company
Sean Barker '09 – Honors thesis advisor – PhD from UMass Amherst, now at Bowdoin College
John (Macklin) Chaffee '09 (Summer 2008 & Fall 2008) – founded Golden Orb, a web development company
Joel Hilliard '09 (Summer 2008)
Austin Stanley '10 (Summer 2008) – now at Symphony Commerce
Nikolay Topilski '08 (UC San Diego, M.S., Fall 2007 – Spring 2008) – now at Akamai, Inc.

Darren Dao '08 (UC San Diego, M.S., Fall 2007 – Spring 2008) – now at NASA Jet Propulsion Laboratory
(*CRA Outstanding Undergraduate Research Award Honorable Mention)

PROFESSIONAL
SERVICE

PerHealth Workshop program committee member, 2017
CNERT program committee member, 2016
PerCom program committee member, 2015, 2016, 2017
TridentCom program committee member, 2012 & 2015
Co-organizer of NSF/GENI Regional Workshop at NEIU, 2015
OSR-Repeat program committee member, 2015
Grace Hopper Conference Internet of Things/Wearable Technology program committee member, 2015
GENI Research and Educational Experiment Workshop program committee member (GREE), 2012 – 2015
Faculty co-chair of the Internet of Things/Wearable Technology track for Grace Hopper Conference, 2014
Organizer of NSF/GENI Workshop on Introduction to GENI, 2014
Organizer of NSF/GENI Workshop on Prototyping and Deploying Experimental SDXs, 2014
Organizer of NSF/GENI Workshop on GENI in Education (at GEC 18), 2013
Chair of NSF Workshop on Designing Tools and Curricula for Undergraduate Courses in Distributed Systems, 2012
Swarthmore College Honors Examiner, 2012
Chair for GENI Working Group on Experiment Workflow and Services, 2009 – 2011
Reviewer for ACM Transactions on Autonomous and Adaptive Systems Journal (TAAS), 2011
Networking panel chair at NSF Archive Workshop, 2010
Birds of a Feather committee member at Grace Hopper, 2010
Reviewer for National Science Foundation, 2009, 2013, 2015
Reviewer for Software: Practice and Experience Journal (SP&E), 2009
Reviewer for IEEE Transactions on Parallel and Distributed Systems Journal (TPDS), 2009
Member of Women In Computing Group (Duke, UCSD, Williams)
Member of ACM, IEEE, and USENIX Computing Associations

INSTITUTIONAL
SERVICE

Goldwater Scholarship Committee, 2016
Curricular Planning Committee, 2015 – present
Faculty Advisor to Alpine Ski Team, 2015 – present
Faculty Mentor Program, 2015 – present
Class of 1966 Environmental Center Advisory Committee Member, 2013 – present
Technology and Education Committee Member, 2012 – 2014
Faculty Steering Committee Elected Member, 2012 – 2013
Children's Center Parental Advisory Committee, 2011 – present
Women's Ultimate Frisbee Team Coach (finished 2nd at 2011 & 2013 National Championship), 2009 – present
Science Executive Committee At Large Member, 2009 – 2010
Faculty Review Panel Elected Member, 2009 – 2010, 2015 – present
Committee on Honor and Discipline, 2009 – 2010
Mellon Mays research advisor, 2009
Committee on Academic Standing, 2008 – 2009, Fall 2015
First-Generation Student Advising Pilot Program, 2008 – 2010

- DEPARTMENTAL SERVICE
- Colloquia chair, 2014, 2016 – 2017
 - Web/Documents Support Person, 2014
 - Divisional Research Funding Committee Representative, 2009 – 2010
 - Web/Documents Contact Person, 2008 – 2010, 2012 – 2013
 - Facilities Manager Support Person, 2007 – 2010, 2012 – 2013
 - Computer Science Student Advisory Committee (CoSSAC), 2007 – 2008, 2015 – 2016
 - Social Event Coordinator, 2007 – 2008, 2015 – 2016
 - Women in CS, 2007 – present
- HONORS AND AWARDS
- Nelson Bushnell '20 Prize (awarded to one Williams College faculty member in each division whose “practice in writing and in teaching conforms notably to standards of good usage”), 2013
 - Best Paper Runner Up at WWW Conference (top 2 out of 831 submissions), 2013
 - Best Paper Session at PerCom Conference (top 3 out of 150 submissions), 2012
 - Gettysburg College Young Alumni Achievement Award for career development, 2011
 - ACM Student Research Competition Semi-finalist (Grace Hopper), 2006
 - National Science Foundation Graduate Research Fellow, 2001 – 2003
 - Gettysburg College Senior Scholarship Prize in Computer Science, 2001
 - Gettysburg College Top Student Award in Mathematics, 1998 – 2001
 - Gettysburg College Linnaean Award for overall achievement during college career, 2000
 - Phi Beta Kappa Academic Honor Society, 2000
 - Alpha Lambda Delta Academic Honor Society, 1998
 - Gettysburg College Presidential Scholar, 1997 – 2001
- REFEREED JOURNAL ARTICLES
1. Dong Chen, Sandeep Kalra, David Irwin, Prashant Shenoy, and Jeannie Albrecht. Preventing Occupancy Detection from Smart Meters. *IEEE Transactions on Smart Grids (ToSG), Special Section on Cyber-Physical Systems and Security for Smart Grids*, 6(5), pages 2426–2434, September 2015.
 2. Jeannie Albrecht, Christopher Tuttle, Ryan Braud, Darren Dao, Nikolay Topilski, Alex C. Snoeren, and Amin Vahdat. Distributed Application Configuration, Management, and Visualization with Plush. *ACM Transactions on Internet Technology (TOIT)*, 11(2), pages 6:1–6:41, December 2011. Acceptance rate = 27%.
 3. Jeannie Albrecht, David Oppenheimer, David Patterson, and Amin Vahdat. Design and Implementation Tradeoffs for Wide-Area Resource Discovery. *ACM Transactions on Internet Technology (TOIT)*, 8(4), pages 18:1–18:44, September 2008.
 4. Dejan Kostić, Alex C. Snoeren, Amin Vahdat, Ryan Braud, Charles Killian, James W. Anderson, Jeannie Albrecht, Adolfo Rodriguez, and Erik Vandekieft. High Bandwidth Data Dissemination for Large-scale Distributed Systems. *ACM Transactions on Computer Systems (TOCS)*, 26(1), pages 3:1–3:61, February 2008.
 5. Jeannie Albrecht, Christopher Tuttle, Alex C. Snoeren, and Amin Vahdat. PlanetLab Application Management Using Plush. *ACM Operating Systems Review (SIGOPS-OSR)*, 40(1), pages 33–40, January 2006.
- REFEREED CONFERENCE PUBLICATIONS
6. Dong Chen, David Irwin, Prashant Shenoy, and Jeannie Albrecht. Combined Heat and Privacy: Preventing Occupancy Detection from Smart Meters. In *Proceedings of the Twelfth IEEE Conference On Pervasive Computing and Communications (PerCom)*, Concise paper. March 2014. Acceptance rate = 25/175 = 14%.
 7. Ryan Hurley, Swagatika Prusty, Hamed Soroush, Robert J. Walls, Jeannie Albrecht, Emmanuel Cecchet, Brian Neil Levine, Marc Liberatore, Brian Lynn, and Janis Wolak. Measurement and Analysis of Child Pornography Trafficking on P2P Networks. In *Proceedings of the International World Wide Web Conference (WWW)*, 11 pages, May 2013. Acceptance rate = 125/831 = 15%. Best Paper Runner Up.

8. Sean Barker, Aditya Mishra, David Irwin, Emmanuel Cecchet, Prashant Shenoy, and Jeannie Albrecht. Smart*: An Open Data Set and Tools for Enabling Research in Sustainable Homes. In *Proceedings of the ACM SIGKDD Workshop on Data Mining Applications in Sustainability (SustKDD)*, 6 pages, August 2012.
9. Barath Raghavan, David Irwin, Jeannie Albrecht, Justin Ma, and Adam Streed. An Intermittent Energy Internet Architecture. In *Proceedings of the Third ACM/IEEE International Conference on Future Energy Systems (e-Energy)*, 4 pages, May 2012. Short paper. Acceptance rate = $7/22 = 32\%$.
10. Sean Barker, Aditya Mishra, David Irwin, Prashant Shenoy, and Jeannie Albrecht. SmartCap: Flattening Peak Electricity Demand in Smart Homes. In *Proceedings of the Tenth IEEE Conference On Pervasive Computing and Communications (PerCom)*, pages 67–75, March 2012. Acceptance rate = $16/150 = 11\%$. Best Paper Session.
11. David Irwin, Anthony Wu, Sean Barker, Aditya Mishra, Prashant Shenoy, and Jeannie Albrecht. Exploiting Home Automation Protocols for Load Monitoring in Smart Buildings. In *Proceedings of the Third ACM Workshop On Embedded Sensing Systems For Energy-Efficiency In Buildings (BuildSys)*, pages 7–12, November 2011. Acceptance rate = $10/29 = 35\%$.
12. Ville Satopää, Jeannie Albrecht, David Irwin, and Barath Raghavan. Finding a “Kneedle” in a Haystack: Detecting Knee Points in System Behavior. In *Proceedings of the Third IEEE Workshop on Simplifying Complex Networks for Practitioners (Simplex)*, pages 166–171, June 2011.
13. Jeannie Albrecht and Danny Yuxing Huang. Managing Distributed Applications using Gush. In *Proceedings of the Sixth International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities, Testbed Practices Session (TridentCom)*, pages 401–411, May 2010.
14. Darren Dao, Jeannie Albrecht, Charles Killian, and Amin Vahdat. Live Debugging of Distributed Systems. In *Proceedings of the International Conference on Compiler Construction (CC)*, pages 94–108, March 2009. Acceptance rate = $18/72 = 25\%$.
15. Jeannie Albrecht. Bringing Big Systems to Small Schools: Distributed Systems for Undergraduates. In *Proceedings of the Fortieth ACM Technical Symposium on Computer Science Education (SIGCSE)*, pages 101–105, March 2009. Acceptance rate = $100/302 = 33\%$.
16. Nikolay Topilski, Jeannie Albrecht, and Amin Vahdat. Improving Scalability and Fault Tolerance in an Application Management Infrastructure. In *Proceedings of the First USENIX Workshop on Large-Scale Computing (LASCO)*, 12 pages, June 2008.
17. Jeannie Albrecht, Ryan Braud, Darren Dao, Nikolay Topilski, Christopher Tuttle, Alex C. Snoeren, and Amin Vahdat. Remote Control: Distributed Application Configuration, Management, and Visualization with Plush. In *Proceedings of the Twenty-first USENIX Large Installation System Administration Conference (LISA)*, pages 183–201, November 2007. Acceptance rate = $22/55 = 40\%$.
18. Laura Grit, David Irwin, Varun Marupadi, Piyush Shivam, Aydan Yumerefendi, Jeff Chase, and Jeannie Albrecht. Harnessing Virtual Machine Resource Control for Job Management. In *Proceedings of the First Workshop on System-level Virtualization for High Performance Computing (HPCVirt)*, 8 pages, March 2007.
19. Jeannie Albrecht, Christopher Tuttle, Alex C. Snoeren, and Amin Vahdat. Loose Synchronization for Large-Scale Networked Systems. In *Proceedings of the USENIX Annual Technical Conference (USENIX)*, pages 301–314, June 2006. Acceptance rate = $21/153 = 14\%$.
20. David Oppenheimer, Jeannie Albrecht, David Patterson, and Amin Vahdat. Design and Implementation Tradeoffs for Wide-Area Resource Discovery. In *Proceedings of the Fourteenth IEEE Symposium on High Performance Distributed Computing (HPDC)*, pages 113–124, July 2005. Acceptance rate = $24/133 = 18\%$.
21. David Oppenheimer, Jeannie Albrecht, David Patterson, and Amin Vahdat. Distributed Resource Discovery on PlanetLab with SWORD. In *Proceedings of the First ACM/USENIX Workshop on Real, Large Distributed Systems (WORLDS)*, 5 pages, December 2004.
22. Dejan Kostić, Adolfo Rodriguez, Jeannie Albrecht, and Amin Vahdat. Bullet: High Bandwidth Data Dissemination Using an Overlay Mesh. In *Proceedings of the Nineteenth ACM Symposium on Operating System Principles (SOSP)*, pages 282–297, October 2003. Acceptance rate = $22/128 = 17\%$.

23. David Athey and Jeannie Albrecht. Applying Caching Techniques for Dynamic Personalized Content in Software Engineering Projects. In *Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA)*, pages 1477–1483, June 2003.
24. David Athey, Jeannie Albrecht, and Rodney Tosten. Caching Techniques for Dynamic Personalized Content in an Enterprise Knowledge Portal. In *Proceedings of the International Conference on Internet Computing (IC)*, pages 31–38, June 2003.
25. Dejan Kostić, Adolfo Rodriguez, Jeannie Albrecht, Abhijeet Bhirud, and Amin Vahdat. Using Random Subsets to Build Scalable Network Services. In *Proceedings of the Fourth USENIX Symposium on Internet Technologies and Systems (USITS)*, 14 pages, March 2003. Acceptance rate = $21/76 = 28\%$.
26. Jeannie Albrecht and Rodney Tosten. Exploring Voice Over IP with Java in an Upper-Division Networking Course. In *Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA)*, 7 pages, June 2001. Acceptance rate = 26% .
27. Rodney Tosten, Jeannie Albrecht, and Christyann Ferraro. Using Enterprise JavaBeans in a Computer Science Curriculum. In *Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA)*, 7 pages, June 2000. Acceptance rate = 24% .

OTHER
PUBLICATIONS

28. Janet David, Jeannie Albrecht, Christine Alvarado, Tzu-Yi Chen, Amy Csizmar Dalal, and Sohie Lee. Computer Science Faculty Careers At Liberal Arts Colleges. *XRDS: Crossroads, The ACM Magazine for Students*, 21(3), pages 13–15, March 2015.
29. Danny Yuxing Huang, Eric Kimbrel, Justin Cappos, and Jeannie Albrecht. Masking Network Heterogeneity with Shims. In *Poster Session of the Ninth USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, October 2010.
30. Jeannie Albrecht and Ryan Braud. Application Management and Visualization with Plush. In *Evaluation Tools and Demo Session Proceedings of the Ninth IEEE Conference on Peer-to-Peer Systems (P2P)*, pages 89–90, September 2009.
31. Elliot Jaffe and Jeannie Albrecht. PlanetLab – P2P Testing in the Wild. In *Evaluation Tools and Demo Session Proceedings of the Ninth IEEE Conference on Peer-to-Peer Systems (P2P)*, pages 83–84, September 2009.
32. Sean Barker, Marius Catalin Iordan, Jeannie Albrecht, and Barath Raghavan. Kudzu: A Self Balancing P2P File Transfer System. In *Poster Session of the Third USENIX Workshop on Tackling Computer Systems Problems with Machine Learning Techniques (SysML)*, December 2008.
33. Jeannie Albrecht, Ryan Braud, Charles Killian, Priya Mahadevan, Kashi Vishwanath, and Amin Vahdat. An Integrated Development Environment for Distributed Systems. *SPIE Newsroom*, 3 pages, March 2008.
34. Jeannie Albrecht, Ryan Braud, Darren Dao, Nikolay Topilski, Christopher Tuttle, Alex C. Snoeren, and Amin Vahdat. Managing Distributed Applications with Plush. *login: (The USENIX Magazine)*, 33(1), pages 32–38, February 2008.
35. Jeannie Albrecht, Ryan Braud, Darren Dao, John Jersin, Christopher Tuttle, Alex C. Snoeren, and Amin Vahdat. Plush: An Infrastructure for Managing and Visualizing Distributed Applications. In *Poster Session of the Seventh USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, November 2006.
36. Jeannie Albrecht, Ryan Braud, Darren Dao, John Jersin, Christopher Tuttle, Alex C. Snoeren, and Amin Vahdat. Plush: An Infrastructure for Managing and Visualizing Distributed Applications. In *Demo Session of the Third ACM/USENIX Workshop on Real, Large Distributed Systems (WORLDS)*, November 2006.
37. Jeannie Albrecht, Christopher Tuttle, Alex C. Snoeren, and Amin Vahdat. Distributed Application Management Using Plush. In *Poster Session of the Sixth Grace Hopper Celebration of Women in Computing (GHC)*, October 2006. ACM Student Research Competition semi-finalist.
38. Jeannie Albrecht, Christopher Tuttle, Alex C. Snoeren, and Amin Vahdat. Distributed Application Management Using Plush. In *Poster Session of the Fourteenth IEEE Symposium on High Performance Distributed Computing (HPDC)*, July 2005.

39. Christopher Tuttle, Jeannie Albrecht, Alex C. Snoeren, and Amin Vahdat. Plush: A Tool for Remote Deployment, Management, and Debugging. In *Work In Progress Session of the Sixth USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, December 2004.
40. Dejan Kostić, Adolfo Rodriguez, Jeannie Albrecht, and Amin Vahdat. Bullet: High Bandwidth Data Dissemination Using an Overlay Mesh. In *Poster Session of the ACM Special Interest Group on Data Communications (SIGCOMM)*, August 2003.
41. Dejan Kostić, Adolfo Rodriguez, Jeannie Albrecht, Abhijeet Bhirud, and Amin Vahdat. Beyond the Tree: High Bandwidth Streaming Using an Overlay Mesh. In *Work in Progress Session of the Fourth USENIX Symposium on Internet Technologies and Systems (USITS)*, March 2003.

TECHNICAL REPORTS

42. David Irwin, Jeff Chase, Laura Grit, Aydan Yumerefendi, and Jeannie Albrecht. Underware: An Exokernel for the Internet? Technical report, Duke University CS-2007-01, 8 pages, January 2007.
43. Jeannie Albrecht, Christopher Tuttle, Alex C. Snoeren, and Amin Vahdat. Distributed Application Management Using Plush. Technical report, University of California, San Diego, UCSD//CS2006-0864, 20 pages, July 2006.
44. Jeannie Albrecht and Yasushi Saito. RAMBO for Dummies. Technical report, HP Labs HPL-2005-39, 6 pages, February 2005.
45. David Oppenheimer, Jeannie Albrecht, David Patterson, and Amin Vahdat. Scalable Wide-Area Resource Discovery. Technical report, University of California, Berkeley UCB//CSD-04-1334, 22 pages, July 2004.

PANELS AND PRESENTATIONS

- “Making Buildings Smarter: Using Technology to Achieve a More Sustainable Future,” at Williams Admissions Open House, August 2016.
- “Living Building Challenge,” at Teach It Forward Campaign Launch Event, April 2016.
- “Scientific Leadership for the Century Ahead: Launching Division III Majors onto Post-Graduate Career Paths,” at Teach It Forward Campaign Launch Event, February 2016.
- “Creating New User Experiences with IoT,” at Grace Hopper Celebration of Women in Computing, with Cisco, October 2015.
- “P2P Systems Overview,” at US Patent and Trademark Office tech fair, July 2015.
- “Making Buildings Smarter: Using Technology to Achieve a More Sustainable Future,” at Class of 1966 Environmental Center Opening, April 2015.
- “GENI for Undergraduates,” at GENI Workshop, November 2014.
- “Detecting and Predicting Home Occupancy in a Smart Home,” at Williams College Faculty Lecture Series, February 2014.
- “Using GENI to Bring Big Systems to Small Schools,” at GENI Engineering Conference 18, October 2013.
- “It’s Not Easy Being Green (Yet),” at Daring Change: Imagining Williams’ Future, April 2013.
- “Distributed Application Management with Gush,” at Hiram College, March 2013.
- “Sensor-Driven Energy Management for Smart Buildings,” at Hiram College, March 2013.
- “Sensor-Driven Energy Management for Smart Buildings,” Sigma Xi Research Lecture Series at Williams College, November 2012.
- “Flattening Peak Electricity Demand in Smart Buildings,” Sigma Xi Research Lecture Series at Williams College, November 2012.
- “Curriculum Workshop Report,” at GENI Engineering Conference 14, July 2012.
- “Bringing Big Systems to Small Schools,” at NSF Workshop on Distributed Systems Education, July 2012.
- “Distributed Application Management with Gush,” at Fairfield University REU, July 2012.
- “Experiment Control Using Gush,” at GENI/GREE Summer Camp at RIT, May 2012.
- “Selected Project Highlights: An Overview of Gush,” at GENI Engineering Conference 11, July 2011.
- “Tutorial Session: Experiment Control Using Gush,” at GENI Engineering Conference 11, July 2011.
- “Finding a ‘Kneedle’ in a Haystack: Detecting Knee Points in System Behavior,” at Simplex, June 2011.
- “GENI in the Classroom,” at GENI Engineering Conference 9, November 2010.
- “Achieving Experiment Repeatability on PlanetLab,” at University of Utah (NSF Archive Workshop), May 2010.
- “Managing Distributed Applications using Gush,” at TridentCom, May 2010.
- “Running Experiments with Gush,” at GENI Engineering Conference 7, March 2010.

- “Academic Career Paths and Skills for Success,” at SOSp Diversity Workshop, October 2009.
- “Application Management and Visualization with Plush,” at P2P, September 2009.
- “PlanetLab – P2P Testing in the Wild,” at P2P, September 2009.
- “PlanetLab Experimenter Tools,” at GENI Engineering Conference 5, July 2009.
- “Distributed Application Management with Gush,” at Bowdoin College, May 2009.
- “Distributed Application Management with Gush,” at Union College, April 2009.
- “(More) GENI Experiment Control Using Gush,” at GENI Engineering Conference 4, March 2009.
- “Bringing Big Systems to Small Schools,” at SIGCSE, March 2009.
- “GENI Experiment Control Using Gush,” at GENI Engineering Conference 3, October 2008.
- “Other Things You Can Do with a Degree in Mathematics: Computer Science,” at Summer Mathematics Program for Women at Carleton College, July 2008.
- “Improving Scalability and Fault Tolerance in an Application Management Infrastructure,” at LASCO, June 2008.
- “Remote Control: Distributed Application Configuration and Management with Plush,” at University of Massachusetts, Amherst, May 2008.
- “Supporting Experiment Workflows in GENI,” at GENI Engineering Conference 2, March 2008.
- “Remote Control: Distributed Application Configuration and Management with Plush,” Williams College Science Lunch, November 2007.
- “Remote Control: Distributed Application Configuration and Management with Plush,” at LISA, Nov 2007.
- “Making the Transition to a Teaching-oriented Institution,” Panel at Grace Hopper Celebration of Women in Computing, October 2007.
- “Learning by Doing: Using Internships to Discover Where You Belong,” Panel at Grace Hopper Celebration of Women in Computing, October 2007.
- “Getting Hired: How to Get the Most Out of Your Internships,” BoF session at Grace Hopper Celebration of Women in Computing, October 2007.
- “Remote Control: Distributed Application Configuration and Management with Plush,” at Williams College, January 2007.
- “Remote Control: Distributed Application Configuration and Management with Plush,” at St. Mary’s College of Maryland, January 2007.
- “Remote Control: Distributed Application Configuration and Management with Plush,” at Washington and Lee University, January 2007.
- “Loose Synchronization for Large-Scale Networked Systems,” at USENIX, June 2006.
- “Applying Caching Techniques for Dynamic Personalized Content in Software Engineering Projects,” at PDPTA, June 2003.
- “Exploring Voice Over IP with Java in an Upper-Division Networking Course,” at PDPTA, June 2001.
- “Using Enterprise JavaBeans in a Computer Science Curriculum,” at PDPTA, June 2000.

WORKSHOPS
ORGANIZED

- “Introduction to GENI Workshop.” GENI workshop – Brought together researchers and educators, particularly from underrepresented groups, to discuss how to effectively use GENI tools in education and research. NSF/GENI workshop at Northeastern Illinois University in Chicago, IL. September 2015.
- “Introduction to GENI Workshop.” GENI workshop – Brought together researchers and educators, particularly from underrepresented groups, to discuss how to effectively use GENI tools in education and research. NSF/GENI workshop at Morgan State University in Baltimore, MD. November 2014.
- “Prototyping and Deploying Experimental Software Defined Exchanges.” Discussed the development and deployment strategies for experimental Software Defined Exchanges (SDXs). NSF/GENI workshop in Washington, D.C. June 2014.
- “GENI in Education.” Encouraged the use of GENI in undergraduate and graduate networking and distributed systems classes. NSF/GENI workshop in Brooklyn, NY. October 2013.
- “Designing Tools and Curricula for Undergraduate Courses on Distributed Systems.” Brought together researchers and educators to discuss how to integrate new technologies with conventional topics in Distributed Systems and Computer Networks. NSF workshop in Boston, MA. July 2012.

FUNDING

- “Utility-driven Smart Energy Services,” NSF Building Capacity for Innovation Award. NSF Award: 1534080. Sub-contract from UMass Amherst. Amount: \$42,490. Total amount of award: \$1,000,000. September 2015 – August 2018.
- “EAGER: Scalable Energy Monitoring and Visualization in a Living Building, ” NSF EAGER Award. NSF Award: 1450090. Amount \$161,260. October 2014 – September 2016.
- “A Virtual Computer Networking Lab,” NSF/BBN GENI Development and Prototyping Grant. NSF Award: 1346688. Sub-contract from UMass Amherst. Amount \$31,639. Total amount of award: \$301,185. November 2013 – October 2016.
- “NSF Workshop on Designing Tools and Curricula for Undergraduate Courses in Distributed Systems.” NSF Award: 1231167. Amount: \$67,175. July 2012.
- “CAREER: Mobile Application Management,” NSF CAREER Award. NSF Award: 0845349. Amount: \$400,000. September 2009 – August 2014.
- “Teaching Undergraduate Distributed Systems using Cloud Computing,” Amazon EC2 Teaching Grant for CSCI 339. Cumulative amount: \$7,900. Fall 2009, Spring 2012, Spring 2014.
- “GENI Experiment Control Using Gush,” NSF/BBN GENI Development and Prototyping Grant. NSF Award: 0834243. Amount: \$407,833. July 2008 – September 2015.