

Robyn R. Lutz - Short Vita

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Positions

Professor of Computer Science, Iowa State University
(Affiliate Assistant Professor 1994-2000; Associate Professor 2000-2005; Professor 2005-Present)
Member of Technical Staff, Jet Propulsion Laboratory/California Institute of Technology 1983-2012

Visiting positions

Visiting Associate, Caltech, 2012, 2017
Visiting Professor, University of Wisconsin, 2006, 2017
Visiting Professor, The Open University, UK, 2012
Visiting Scientist, Siemens Research Corporation, 2001
Visiting Scientist, Cornell University, 1997

Research areas

Software engineering
Software safety
Requirements analysis for molecular programming and nanoscale self-assembly
Safety-critical product lines
Requirements engineering
Formal methods for specification and verification
Fault monitoring and recovery for spacecraft autonomy

Research funding (PI unless noted)

NSF grant, 2015-2019	ISU grant, 2008
NSF grant, 2015-2019	NASA grant, 2007-2008
NSF grant, 2012-2017 (co-PI)	NSF grant, 2002-2007
NSF grant, 2011-2013	NASA grant, 2004-2007
NSF grant, 2009-2013	NSF grant, 2002-2007
NSF grant, 2011-2013 (co-PI)	Iowa Space Grant Consortium, 2004
NSF grant, 2011-2013 (co-PI)	NASA grant, 2003
NASA grant, 2009-2012	NASA grant, 1999-2002
NSF grant, 2007-2012 (co-PI)	NASA grant, 1997-2000
NSF IU/CRC grant, 2011	NASA grant, 1995-1998
NSF grant, 2006-2011	Rockwell Collins grant, 1996-1997
NASA grant, 2007-2010	NASA grant, 1995-1997

Publications

26 journal articles; 1 edited volume; 6 book chapters; 1 encyclopedia article; 73 conference, symposium and workshop papers

Editorial boards

IEEE Transactions on Software Engineering, 2002-2007, 2013-2017
Requirements Engineering Journal, 2002-present
Software Testing, Verification and Reliability, 2011-2013
Software and System Modeling, 2006-2013

Awards and honors

ACM (Association for Computing Machinery) Distinguished Scientist, 2014
"IFIP TC2 Manfred Paul Award for Excellence in Software: Theory and Practice" for co-authored

Automated Software Engineering 2014 paper
NASA Group Achievement Award, 2012, 1998
Finalist, Iowa Women of Innovation Award, Academic Innovation and Leadership (Post-Secondary),
Technology Association of Iowa, 2009
Award for Best Research Paper, NASA OSMA SW Assurance Symposium, 2004
Best Experience Paper, International Requirements Engineering Conference 2003
Most Influential Paper (10 years later), International Requirements Engineering Conference 2003
Outstanding Contributions to Software Assurance Research, NASA OSMA SW Assurance Symp, 2002

Recent conference service

Program Committee, RE@Next! Track, International Requirements Engineering Conference 2018
Program Committee, ACM International Conference on Nanoscale Computing and Communication 2018
International Requirements Engineering Conference (RE), Steering Committee, 2006-2011, 2014-;
Program Chair, 2014; General Chair 2006; Program Board 2010, 2012, 2013; PC 2007-2009, 2011
International Conference on Software Engineering (ICSE), PB 2017; PC 2016; RC 2015; PC 2011, 2013;
Chair, "Portraits in Practice", 2006

Recent other service

International Federation for Information Processing (IFIP) Working Group 2.9 Requirements Engineering
Chaired departmental committee that developed new cross-college Software Engineering B.S. program
Chaired successful faculty search committees (for endowed chair and assistant professor)
Curriculum development of new courses on software safety, software development practices
Research Experience for Undergraduates, NSF funded, supervised 16 students 2005-present, including
female students continuing to STEM Ph.D. programs

Recent invited lectures

Dean's Spring Lecture, 2017; Keynote, RE'16, Beijing, China, 2016; The Blavatnik School of Computer
Science, Tel Aviv U, 2015; U Heidelberg Institut für Informatik, 2015; U MN Computer Science & Eng
Colloquium, 2013; Dept. of Computing, The Open University, UK, 2012; Dept. of Computer Science,
Oxford, 2012; Faculty of Engineering Sciences, University College London, 2012
CRA-W (Committee on the Status of Women in Computing Research) Distinguished Lecturer, 2010
The Road Less Traveled outreach for middle school and high school girls, 2010
U.S. Government Software Design and Productivity Coordinating Group, Networking and Information
Technology Research and Development, 2009
Assurance Technology Program Office, Jet Propulsion Laboratory, 2008
NASA Software Assurance Symposium, 2006

Education

M.S., Computer Science, Iowa State University, 1990, NASA Graduate Fellow
Ph.D., Spanish, University of Kansas, 1980, Advisor: Raymond Souza
M.A., Spanish, University of Kansas, 1976
B.A., English, University of Kansas, with highest distinction, 1974

Ph.D. degrees supervised

Wandi Xiong, current
Sam Ellis, 2017 (co-advised with J. Lathrop)
Sandeep Krishnan, 2013, Siemens Research, Bangalore, India
Hongyu Sun, 2010, Microsoft, Redmond, WA
Jing (Janet) Liu, 2008, Rockwell Collins, Cedar Rapids, IA
Josh Dehlinger, 2007, Associate Professor, Towson University, Baltimore, MD
Krzysztof Parzyszek, (co-advised), 2003, Qualcomm Innovation Center, Inc., Austin, TX