

- 2000-2001 Fellow
Radcliffe Institute for Advanced Study, Harvard University
- 1998-2008 Associate Professor
University of Massachusetts Lowell, Lowell, MA
Department of Regional Economic and Social
Development
- 1996-1998 Assistant Professor
University of Massachusetts Lowell, Lowell, MA
Department of Regional Economic and Social
Development
- 1995-1996 Visiting Scientist
Massachusetts Institute of Technology, Cambridge, MA
School of Architecture and Planning
- 1990-1997 Assistant Professor
University of Massachusetts Lowell, Lowell, MA
Department of Policy and Planning

3) Professional Experience

- 1989-1990 Researcher
Soziologisches Forschungsinstitut, Göttingen, Germany
US-based subcontractor to international research project.
- 1988-1990 Consultant
Clients included AT&T Bell Laboratories and Polaroid
Corporation
- 1987-1988 Project Manager
Stone Center, Wellesley College, Wellesley, MA
Digital Equipment Corporation Project

B. PROFESSIONAL ACTIVITIES

1) Professional Association and Conference Participation

- 2023 (invited) Sarah Kuhn, Jennifer Queen. “Thinking with Things: Creating Effective and Engaging Classroom Experiences.” Workshop-In-A-Box, POD 2023. Pittsburgh, PA, November 16-19.

- 2023 (invited) Susan Hrach, Sarah Kuhn, Jennifer Queen. "Thinking with Bodies: How Physical Experiences Impact Student Learning." Interactive Session, POD 2023. Pittsburgh, PA, November 16-19.
- 2023 (invited) Sarah Kuhn. "Thinking With Things: Teaching for the Way We REALLY Learn." HBCU Faculty Development Network 30th Annual Conference. Houston, Texas. October 26-28.
- 2023 (invited) Jennifer Queen and Sarah Kuhn. "Thinking with Things: Employing Embodied Learning Using Physical Materials in College Classrooms." Innovative Teaching Talk. Scholarship of Teaching and Learning (SoTL) Summit, September 21-22. Virtual.
- 2023 (invited) Sarah Kuhn. "Creating the Inclusive STEM Classroom by Thinking with Things." Lightning Talk. North Carolina PKAL Regional Network Meeting. March 31. Virtual.
- 2023 (invited) Sarah Kuhn. "Thinking With Things: Deepening Learning and Engagement in the Classroom." Workshop. Scholarship of Teaching and Learning (SoTL) Commons Conference, Savannah, GA. February 15-17.
- 2022 (invited) Sarah Kuhn. "Thinking with Things: Creating Effective and Engaging Classroom Experiences." Workshop. POD 22 (Professional and Organizational Development Network in Higher Education), Seattle, WA, USA. November 16-20.
- 2022 (invited) Sarah Kuhn. "Supercharge Learning and Engagement by Thinking with Things." Scholarship of Teaching and Learning (SoTL) Summit, October 6-7. Virtual.
- 2022 (invited) Sarah Kuhn. "Thinking with Things: Creating an Effective and Engaging Classroom Experience." The Teaching Professor Conference. Atlanta, June 3-5. 60 minute workshop.
- 2021 (invited) Sarah Kuhn. "Thinking with Things: Creating an Effective and Engaging Classroom Experience." Association of American Colleges & Universities (AAC&U) Conference on General Education, Pedagogy, and Assessment. February 11. (Virtual live conference).

- 1992 (invited) "Engineers and Machinists: Conceptual Barriers to Skill-Based Systems." International Federation of Automatic Control, Symposium on Automated Systems Based on Human Skill (and Intelligence). Madison, WI.
- 1992 (invited) "Can We Talk? Engineers, Machinists, and the Barriers to a Skill-Based Approach to Production." Computer Professionals for Social Responsibility. Directions and Implications of Advanced Computing. Berkeley, CA.
- 1990 (invited) Plenary Panelist, Gender and Computing. Association for Computing Machinery, Computers and the Quality of Life. Washington, DC.
- 1985 "A Working Hypothesis: Observations on the Reorganization of Work in the Systems Department of a Bank." Association of Collegiate Schools of Planning. Milwaukee, WI.

2) Honors, Awards, and Fellowships

Teaching Award, Department of Regional Economic and Social Development, University of Massachusetts Lowell, 2005-2006

Faculty Associate, Center for Women and Work, University of Massachusetts Lowell. 2004-2012

CAS Faculty Fellow, IBM Centre for Advanced Studies, IBM Toronto Laboratory, Toronto, Canada. January 2003-June 2004

Fellowship, Radcliffe Public Policy Center, Radcliffe Institute for Advanced Study, Harvard University 2000-2001

Teaching Award, Policy and Planning Department, University of Massachusetts Lowell, 1996-97

Biographee, Who's Who in America, 58th edition

Who's Who in the World, 28th Edition

Biographee, Who's Who in Finance and Industry, 25th edition

Biographee, Who's Who of American Women, 16th, 25th, and 28th editions

Biographee, Who's Who in American Education, 7th, 8th editions

Biographee, Who's Who Among America's Teachers, 9th edition

Biographee, Who's Who of Emerging Leaders in America, 2nd and 3rd editions

Fellow, Harvard-MIT Joint Center for Urban Studies, 1982-83

Nominee, Ida M. Green Award, Massachusetts Institute of Technology, 1978

The Signet Literary Honor Society, Harvard University

Bachelor's Degree *Cum Laude*, Harvard University

3) Non-Teaching Activities

- a) Referee for Academic Journals (invited)

Association of Collegiate Schools of Planning
Computer Professionals for Social Responsibility
Society for the Advancement of American Philosophy
Society for the Social Study of Science
Society for Philosophy and Technology

C. RESEARCH

1) Grant and Contract Activity--funded

2016	“ADVANCE: Institutional Transformation: Making WAVES: Disrupting Microaggressions to Propagate Institutional Transformation.” National Science Foundation. Jacqueline Moloney, PI. With Meg Bond, Julie Chen, Marina Ruths, and Margaret Sobkowitz-Kline, co-PIs. Sarah Kuhn, Senior Personnel.	\$3,455,590.
2015	Sarah Kuhn, PI. “Lowell Tex: Embracing Lowell’s Cultural, Historical, and Educational Assets to Create Pathways to STEM.” Co-investigators: Chris Hansen, Engineering; David Kazmer, Engineering and UTeach; Ken Levasseur, Mathematics and UTeach; Emmanuelle Reynaud, Engineering; Michelle Scribner-MacLean, Education and UTeach; Sheila Kirschbaum, Tsongas Industrial History Center; Diana Coluntino, New Vestures Fashion Maker Space; Todd Smith, American Textile History Museum; and Chriztine Foltz, Patricia Wilson Nguyen, and Alessandrina Costa, fiber arts experts. UMass President’s 2015 Creative Economy Initiatives Fund	

#DUE- 0920574. [PI John Duffy; co-PIs Barry, Martin, and Mittler.] 08/1/11 – 07/31/14.

2009	Sarah Kuhn, Senior Personnel. “Engineering for the Common Good.” National Science Foundation #EEC-0935185. [PI John Duffy; co-PIs Barry, Gu, Lee, and Willis (UML Engineering faculty).] 08/1/11 – 07/31/14	\$399,629.
2007	Sarah Kuhn, Co-PI. National Science Foundation. “Internet System for Networked Sensor Experimentation (iSENSE)” [Fred Martin, PI; Michelle Scribner-MacLean, Co-PI.]	\$392,796.
2007	Sarah Kuhn, Senior Personnel/Co-PI*. National Science Foundation. CPATH CB: Performamatics: Connecting Computer Science to the Performing, Fine, and Design Arts. [Jesse Heines, PI; Gena Greher, James Jeffers, Fred Martin, Karen Roehr, Wanda Strukus, Co-PIs] Requested Amount: \$409,126. *Listed in proposal narrative as one of six Co-PIs, but NSF FastLane allows only four.	\$368,162.
2006	Sarah Kuhn, Co-PI. National Science Foundation. “DRU: Analysis of Current HAZMAT Response Capabilities and the Impact of Human Robot Interaction on Risk Mitigation [Holly Yanco, PI; Jill Drury Co-PI]	\$124,765.
2004	Sarah Kuhn. Committee on Industrial Theory and Assessment. “Curriculum Module to Support Sustainable Development Learning.” [With Fred Martin] Seed Grant.	\$5,000
2001/	Sarah Kuhn, Co-PI. National Science Foundation. “Women in Informa	

1999	Sarah Kuhn. US Department of Labor. “Y2K Workers: What Happens on January 2, 2000?” Grant # 12-08494. [With Harold Salzman]	\$ 9,979
1999	Sarah Kuhn. Massachusetts Foundation for the Humanities. “Scenario Workshop on Democracy and Sustainability.” Challenge grant. [With Richard Sclove]	\$15,000
1998	Sarah Kuhn. Committee on Industrial Theory and Assessment, University of Massachusetts Lowell. “Informational Context S	

	Principal Investigator [Georges Grinstein, PI; Fred Martin, Co-PI] Requested amount: \$643,265.	
2006	Sarah Kuhn, Carol Strohecker, and Lise Motherwell. “Conversing with Materials.” Proposal to the Rockefeller Foundation’s Bellagio Study and Conference Center. Requested full funding of a 5 day conference at the Center.	not funded
2005	Sarah Kuhn, Co-PI. National Science Foundation. “Designing Effective Team-Based Human-Robot Interaction Using Risk and Decision Analysis.” [Holly Yanco, PI; Jill Drury, Robb Wilcox, Co-PIs] Requested amount: \$749,623.	not funded
2004	Sarah Kuhn, PI. National Science Foundation. “‘Computing With a Purpose’ in an Introductory Design Course.” [Fred Martin, Co-PI] Requested amount: \$997,357.	not funded
2004	Sarah Kuhn, Co-PI. National Science Foundation. “Engaging Computing: Integrating Computer Science into Undergraduate Graphic Arts and Computer Science Courses.” [Fred Martin, PI; Karen Roehr, Co-PI] Requested amount: \$192,879.	not funded
2004	Sarah Kuhn, Co-PI. National Science Foundation. “Engaging Computing: Integrating Computer Science into Undergraduate Graphic Arts and Computer Science Courses.” [Fred Martin, PI; Karen Roehr, Co-PI] Requested amount: \$73,166.	not funded
2003	Sarah Kuhn, PI. National Science Foundation. “Are Introductory STEM Design Experiences Effective in Promoting Engagement?” [Fred Martin and Lynn A. Stein, Co-PIs] Requested amount: \$1,699,007.	not funded
1996	Sarah Kuhn, Co-PI. “Interdisciplinary Research on Collaborative Learning Environments for Software Design.” National Science Foundation. [Marian Williams, PI]	not funded

3) Academic and Professional Publications

a) Books and Monographs

- aspects of her research, commented on multiple manuscript versions, and attended several dissertation committee meetings.
- 2014 Priya Dasgupta, X. Jing, Laura Punnett, Sarah Kuhn, Bryan Buchholz. “Assessing the Ergonomic Exposures for Drywall Workers.” International Journal of Industrial Ergonomics.
- 2013 Sarah Kuhn. “Coming to our Senses: Thinking with Things in the Classroom.” The Atrium: A Journal of Academic Voices. Spring.
- 2009 Fred Martin, Gena Greher, Jesse Heines, James Jeffers, Hyun-Ju Kim, Sarah Kuhn, Karen Roehr, Nancy Selleck, Linda Silka, and Holly Yanco. “Joining Computing and the Arts at a Mid-Size University.” Journal of Computing Sciences in Colleges, v. 24, no. 6:87–94, June.
- 2008 Jesse M. Heines, Jim Jeffers, and Sarah Kuhn. “Performamatics: Experiences with Connecting a Computer Science Course to a Design Arts Course.” The International Journal of Learning. Volume 15 (2):9-16. ISSN 1447-9494.
- 2007 Sarah Kuhn and Judith Davidson. “Thinking With Things, Teaching With Things: Enhancing Student Learning in Qualitative Research Through Reflective Use of Tools and Materials.” Qualitative Research Journal. Volume 7, Issue 2; 2007; 63-75.
- 2001 Sarah Kuhn. “Learning from the Architecture Studio: Implications for Project-Based Pedagogy.” International Journal of Engineering Education. Vol. 17, Nos. 4 and 5; pp. 349-352.
- 2001 Sarah Kuhn. “Commentary on: The Greening of Engineers: A cross-cultural experience.” Science and Engineering Ethics /PageBDC[-2(s)] TJEMC/Artifact /Type /PageBDC[-

- 1997 Sarah Kuhn and John Wooding. "The Changing Structure of Work: Income and Benefits." In Charles Levenstein and John Wooding, eds. Work, Health, and Environment: Old Problems, New Solutions. New York: The Guilford Press. (Reprinted)
- 1997 Sarah Kuhn and John Wooding. "The Changing Structure of Work: Health and Welfare, Part II." In Charles Levenstein and John Wooding, eds. Work, Health, and Environment: Old Problems, New Solutions. New York: The Guilford Press. (Reprinted)
- 1996 Sarah Kuhn. "Design for People at Work." In Terry Winograd, ed. Bringing Design to Software. Reading, MA: Addison-Wesley. (Pp. 273-289)
- 1996 Sarah Kuhn and Terry Winograd. "Participatory Design." In Terry Winograd, ed. Bringing Design to Software. Reading, MA: Addison-Wesley. (Pp. 290-294)
- 1993 Sarah Kuhn and Charles Richardson. "Standing on the Edge: Engineering Students Encounter Skill-Based Automation" in N. Harvey and F. Emspak, eds. Automated Systems Based on Human Skill and Intelligence. Pergamon Press, pp. 19-26.
- 1989 Sarah Kuhn. "The Limits to Industrialization: Computer software development in a large commercial bank." In The Transformation of Work? Stephen Wood, ed. London: Unwin Hyman. (pp. 266-278)
- 1987 Sarah Kuhn and Barry Bluestone. "Economic Restructuring and the Female Labor Market: The impact of industrial change on women." In Women, Households, and the Economy. Lourdes Beneria and Catharine Stimpson, eds.

- 2001 Mary Catherine Bateson, Sarah Kuhn, and Cecily Selby. "An Open Letter to Dean Faust." Radcliffe Quarterly, Summer 2001.
- 2000 Harold Salzman and Sarah Kuhn. "The Y2K-IT Workforce and the Organizational Impacts of Y2K." Report to the Office of Policy, US Department of Labor.
- 1999 Howie Goodell, Sarah Kuhn, David Maulsby, and Carol Traynor. "End User Programming/Informal Programming." SIGCHI Bulletin, Volume 31, Number 4. October. Pages 17-21.
- 1994 Harold Salzman and Sarah Kuhn. "Increasing Productivity By Integrating Design Engineering and the Work Force: Participatory D

2002 “Design for Working, Living, and Learning.” Media Lab Europe, Colloquium Series, Dublin, Ireland. May.

2001 “Values i

2017 “Coming to our Senses in the Classroom: Enabling the embodied learner.”
Flash talk, UML Faculty Teaching, Learning, Research and Creative Works
Symposium. March 2.

2016 Presenter (with Michelle Haynes-Baratz), “Math Anxiety & Women: Testing an
Intervention.” UMass Lowell Gender Studies Conference. February 18.

2007 “Thinking with Your Hands.” Presentation to Honors Program Colloquium,
University of Massachusetts Lowell, September 15, 2007.

1987 “Restructuring of Information Systems Work.” Industrial Relations Seminar. Sloan School of Management, Massachusetts Institute of Technology. Cambridge, MA.

c) Industry, Labor, and Community presentations—invited

2022 Community Conversations: Improving Education by “Thinking with Things.” Maker Campus virtual event. March 3 on Zoom.

2019 Crocheted Hyperbolic Planes: An existence proof. Host, The Living Room Project, Isabella Stuart Gardner Museum. March 2

2016 Workshop participant, “Difference Makers Workshop” for faculty. UMass Lowell Innovation Hub. January 13.

2013 Participant, Am

- 2014 Directed Studies for Mana Abdalla and Kimberly Haskins (Spring).
- 2008 Thesis Reader for Jonathan Arambula and Thomas Merrill.
- 2006 Thesis Reader for James Rather and Emily McCourt.
- 2005 Thesis Advisor for Jennie Morris; Thesis Reader for John Edward.
- 2004 Became LEGO® SERIOUS PLAY™ Licensed Facilitator.
- 2003 Graduate independent study on Qualitative Research Methods. Supervisor.
- 2002 Graduate independent study on Qualitative Research Methods. Supervisor.
- 1998 Invited Outside Guest, Software Development Studio Final Reviews. Master of Software Engineering program at Carnegie Mellon University. July.
- 1997 Dissertation committee member for Hyxia Villegas, “A Study of Awareness-Enhanced Tools for Collaborative Debugging.” Doctoral thesis in Computer Science Department, University of Massachusetts Lowell.
- 1996 Three graduate independent studies on Software Design in Context (Fall.)
- 1993-1994 Member of College of Management's COMCORE team. Developed and taught, with five other faculty, the first integrated curriculum for junior business majors, funded by the US Department of Education's Fund for the Improvement of Postsecondary Education (FIPSE).
- 1991 Undergraduate independent study on international software marketing (Fall).

D. SERVICE ACTIVITIES

1) National/Community Activities Related to Professional Field

- 2022 Sarah Kuhn. “Crocheting the Hyperbolic Plane.” Massachusetts College of Art Continuing Education Workshop. January 5, 2022. 6-8 PM.
- 2019 Sarah Kuhn. “Crocheted Hyperbolic Planes.” Workshop at Arts League of Lowell. August 6.
- 2017 Sarah Kuhn. “How to make a Crocheted Hyperbolic Plane: STEM meets fiber.” Women and Textiles Expo, Loading Dock Arts Gallery, Lowell, MA. March 11.
- 2015- Sarah Kuhn, PI. “Lowell Tex: Embracing Lowell’s Cultural, Historical, and

- 2015- Affiliate, UML Center for Program Evaluation.
pres.
- 2006- Lead Instigator, Laboratory for Interdisciplinary Design (Coburn B7).
pres.
- 2015- Psychology Department Representative, FAHSS Difference Makers.
pres.
- 2017 Facilitator, UMass Lowell Women in Leadership Conversation Dinner. For UML Women student leaders, organized by the Center for Women and Work. February 16.
- 2016 Facilitator, UMass Lowell Women's Student Leadership Summit. April 21.
- 2009- Leader, Thinking With Things, an interdisciplinary, teaching-focused faculty
2012 learning community
- 2007 Creator and organizer, *Student Sustainability Project Showcase*. Conceived and organized December public open house showcasing Sustainability-related student projects for students from all levels and disciplines at UML.
- 2007 Founding member of CIRCLe, the Center for Interactive Robotics, Computing, and Learning. The proposed Center, awarded a two year, \$120,000 grant from the UMass President's Office, is directed by Holly Yanco, with Fred Martin, Georges Grinstein, and MITRE Corporation's Jill Drury.
- 1996 Secured equipment donation. EDS Corporation donated to the university the equipment to create an electronic conference room/classroom, including networked computers, electronic projectors, audio and video recording and editing equipment, and proprietary software. Donation conservatively valued at \$175,000. (With Marian Williams.)
- 1995 Created Graduate Certificate Program in Human-Computer Interaction at the University of Massachusetts Lowell (with Marian Williams).

3) Committee Activities

a) University Committees

- Member, University Rank and Tenure Committee (2011-2012, 2014-2015)
- University of Massachusetts Information Technology Council Subcommittee on Academic Technology Working Group on Faculty Engagement and the Scholarship of Teaching (2005-2006)
- Media, Information, and Technology Program Committee 2005-2006
- Advisory Committee, Initiative on Experimental Educational Design 2004-2005

Committee on the Relationship Between Electrical Engineering/Computer
Engineering and Computer Science in Order to Enhance the Skills and Value
of Lowell Graduates in these Disciplines 2001-2002

Committee for Industrial Theory and Assessment, 1993-2000

Telecommunications Council, 1996-1998

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- Participant in student recruitment
- Graduate Program Committee member
- Undergraduate Curriculum Committee member
- Member, Graduate Curriculum Committee
- Member, RESD 10th Anniversary Committee
- Coordinator for development of Complete Engineer scholarship
- Arranged with Computer Science department for approval of undergraduate Sustainable Development course as ethics elective.
- Space planning and evaluation work with colleagues, students, and facilities director.

Policy and Planning, my department from 1990-1997, had no formal committee structure. I shared equally with my colleagues the work of creating and maintaining the new department, including but not limited to: recruitment, curriculum development, seminar planning, mission formulation, and long-range planning for the department from its founding in 1990 to its dissolution in 1997.