
Erika Rogers

Curriculum Vitae

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EDUCATION

Ph.D.	Georgia Institute of Technology	Computer Science	1992
M.A.	Pacifica Graduate Institute	Depth Psychology	2010
M.S.	Georgia Institute of Technology	Computer Science	1985
B.Math.	University of Waterloo	Applied Math & Computer Science	1984
B.A.	University of Western Ontario	French	1978

PROFESSIONAL EXPERIENCE

Thesis Coach, Cal Poly Office of Graduate Education (2015)
Academic Research Coach (2010-present)
Independent Researcher and Instructor (2004-present)
Professor, Adult Degree Program, Cal Poly, San Luis Obispo, CA (2007-2011)
Director, Honors Program, Cal Poly, San Luis Obispo, CA (2003-2006)
Full Professor (Ret.), Dept. of Computer Science, Cal Poly, San Luis Obispo, CA (2002-2004)
Associate Professor, Dept. of Computer Science, Cal Poly, San Luis Obispo, CA (1998-2002)
Associate Professor, Dept. of Comp. & Info. Sci., Clark Atlanta U., Atlanta, GA (1997-1998)
Assistant Professor, Dept. of Comp. & Info. Sci., Clark Atlanta U., Atlanta, GA (1993-1997)
Instructor, School of Mathematics, Georgia Tech., Atlanta, GA (1993)
Instructor, Dept. of Comp. & Info. Sci., Kennesaw College, Kennesaw, GA (1993)
Graduate Research Assistant, Georgia Tech., Atlanta, GA (1989-1992)
Graduate Teaching Assistant, Georgia Tech., Atlanta, GA (1991)
MRI Software Consultant, Philips Medical Systems, Atlanta, GA (1986-1988)

CONSULTING & ACADEMIC PROJECTS

Cal Poly Thesis Coaching Clinic (2015)
Guest Lecturer, Pacifica Graduate Institute (2012)
Grant Proposal Development, Dept. of Biology, Cal Poly (2011)
Empowering Librarians through User-Centered Design, Auraria Library, Denver (2009)
Assessment & Evaluation for NSF Project-Based Honors Research Program, Cal Poly (2008)
Systems Thinking Focus Group Pilot Project, Dept. of Materials Engineering, Cal Poly (2007)
Benford Online Bibliography (2007-present)
Philips Educational Package for Magnetic Resonance Imaging (1987)

RESEARCH PROJECTS

HRIWeb Archive of Human-Robot Interaction Resources (2003)
IDA - Instructional Design Agents (1999-2002)
DARPA/NSF Study on Human-Robot Interaction (2001)
Tele-VIA - Visual Interaction Assistance for Tele-operated Robots (1994-1998)
VIA-RAD - Visual Interaction Assistant for Radiology (1989-1998)

RESEARCH FUNDING

National Science Foundation (NSF) Workshop Grant IIS-0130511 (2001-2003)
State Faculty Support Grants (1999-2000)
Cal Poly Plan Interdisciplinary Program "Immersive Collaboratory" (2000)
National Science Foundation (NSF) Early Career Award (1995-1999)
National Science Foundation (NSF) Research Experiences for Undergraduates (REU) supplement (1996)
National Science Foundation (NSF) Interdisciplinary Equipment Grant (1996)
National Institute of Standards & Technology - Advanced Technology Program (NIST-ATP) (1995)
Boeing Computer Services (1994-1995)

National Science Foundation (NSF) Technology Reinvestment Project (1994)
Georgia Tech Research Corporation Interdisciplinary Grant (1991)
Georgia Tech/Emory Biomedical Research Center Seed Grant (1989-1990)

CONFERENCE PRESENTATIONS

1. Presentation, Malintzin Society Conference on *El Otro*, Santa Barbara, CA (Oct 2010)
2. Workshop, ACRL 2009 National Conference, Seattle, WA (Mar 2009)
3. Panel presentation, 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA (Oct 2006)
4. 12th Annual Syllabus Higher Education Technology Conference, Los Angeles, CA (Aug 2005)
5. World Conference on Educational Multimedia, Hypermedia and Telecommunications, Montreal, Canada (Jun 2005)
6. Panel presentation, Society for Industrial & Organizational Psychology Annual conference, Los Angeles, CA (Apr 2005)
7. American Society of Engineering Education (ASEE) Pacific Southwest Regional Conference (Apr 2000)
8. 1998 IEEE International Conference on Systems, Man and Cybernetics, San Diego, CA (Oct 1998)
9. 15th National Conference on Artificial Intelligence (AAAI-98) Workshop on Integrating Artificial Intelligence and Assistive Technology, Madison, WI (Jul 1998)
10. Annual Frontiers in Education (FIE) Conference, Pittsburgh, PA (Nov 1997)
11. 1997 IEEE international Conference on Systems, Man and Cybernetics, Orlando, FL (Oct 1997)
12. Poster presentation, 19th Annual Conference of the Cognitive Science Society, Stanford, CA (Aug 1997)
13. 1st International Conference on Autonomous Agents, Marina del Rey, CA (Feb 1997)
14. 8th Int. Conf. on Systems Research, Informatics & Cybernetics, Baden-Baden, Germany (Aug 1996)
15. 18th Annual Conference of the Cognitive Science Society, San Diego, CA (Jul 1996)
16. Duke University, Workshop on Interactive & Visual Tools for Teaching Computer Science, Durham, NC (Mar 1996)
17. 1995 IEEE International Conference on Systems, Man & Cybernetics, Vancouver, Canada (Oct 1995)
18. CHI '95 Workshop on Making Visual Objects the Medium for Intelligent Design Assistance;, Denver, CO (May 1995)
19. 1994 IEEE International Conference on Systems, Man and Cybernetics, San Antonio, TX (Oct 1994)
20. International Workshop on Principles for Diagnosis (DX-94), New Paltz, NY (Oct 1994)
21. 8th Int. Conf. on Systems Research, Informatics & Cybernetics, Baden-Baden, Germany (Aug 1994)
22. Poster presentation, Starkfest 94: Vision and Motion in Man and Machines, Berkeley, CA (Jun 1994)
23. 2nd Annual HBCU/Private Sector Energy Research and Development Technology Transfer Symposium, Birmingham, AL (Apr 1994)
24. AAAI 1993 Fall Symposium on Human-Computer Collaboration, Raleigh, NC (Oct 1993)
25. 6th Int. Conf. on Systems Research, Informatics & Cybernetics, Baden-Baden, Germany (Aug 1992)
26. Panel presentation, 6th Int. Conf. on Systems Research, Informatics & Cybernetics, Baden-Baden, Germany (Aug 1992)
27. AAAI 1992 Spring Symposium on Reasoning with Diagrammatic Representations, Palo Alto, CA (Mar 1992)
28. 1991 IEEE International Conference on Systems, Man and Cybernetics, Charlottesville, VA (Oct 1991)
29. Fourth Annual IEEE Symposium on Computer-Based Medical Systems, Baltimore, MD (May 1991)
30. First Conference on Visualization in Biomedical Computing, Atlanta, GA (May 1990)

OTHER PRESENTATIONS

1. Introducing the Cal Poly Thesis Coaching Clinic, Invited Lecture, Cal Poly, San Luis Obispo, CA (Jan 2015)
2. Research in Depth Psychology, Invited Lecture, Pacifica Graduate Institute, Carpinteria, CA (Apr 2012)
3. Research Tutorials in Depth Psychology, Opus Archives, Santa Barbara, CA (Apr 2011)
4. Lecture and workshop series on User-Centered Design for Auraria Library, Denver, CO (Jun 2009)
5. Cuesta College, San Luis Obispo, CA (Aug 2008)
6. International University Ho Chi Minh City, Ho Chi Minh City, Vietnam (Mar 2007)

7. University of Natural Sciences, Ho Chi Minh City, Vietnam (Mar 2007)
8. Luleå University of Technology, Luleå, Sweden (Jan 2007)
9. The Royal Institute of Technology (Kungliga Tekniska Högskolan), Stockholm, Sweden (Jan 2007)
10. Book Review, South Bay Women's Network, Los Osos, CA (Mar 2006)
11. Panel presentation, SLO Society for Technical Communication, San Luis Obispo, CA (May 2005)
12. First IEEE-RAS/IFRR School of Robotics Science Summer School on Human-Robot Interaction, Volterra, Italy (Jul 2004)
13. Monthly meeting presentation, South Bay Women's Network, Los Osos, CA (Feb 2003)
14. SLO Society for Technical Communication, San Luis Obispo, CA (Dec 2002)
15. University of North Texas, Depts. of Mathematics and Computer Science Colloquium, Denton, TX (Apr 1999)
16. NASA-Ames Research Seminar, Mountain View, CA (Aug 1998)
17. National Inst. for Urban Search & Rescue XII Core Group meeting, Camp Pendleton, CA (Aug 1998)
18. Computer Science Colloquium, Cal Poly, San Luis Obispo, CA (Mar 1997)
19. University of California at Davis, Medical Informatics Conference, Sacramento, CA (Jul 1996)
20. Centers for Disease Control Technical Seminar, Atlanta, GA (Apr 1996)
21. GVU Demo Evening, Georgia Institute of Technology, Atlanta, GA (Mar 1996)
22. University of Charleston, Computer Science Seminar, Charleston, SC (Mar 1996)
23. Computer Science Seminar, Clark Atlanta Univ., Atlanta, GA (Oct 1993)
24. Math & CS Colloquium, Colorado School of Mines, Golden, CO (Aug 1993)
25. Computer Science Colloquium, Clark Atlanta Univ., Atlanta, GA (Apr 1993)
26. Human-Computer Interaction Consortium Workshop, Atlanta, GA (Jan 1993)
27. Dept. of Radiology Seminar, Emory University, Atlanta, GA (Sep 1992)
28. Computer Science Seminar, Univ. of South Florida, Tampa, FL (Jun 1992)
29. GVU Seminar, Georgia Tech., Atlanta, GA (Apr 1992)
30. Computer Science Colloquium, Georgetown University, Washington, DC (Feb 1992)
31. Information Systems Colloquium, University of Maryland, Baltimore, MD (Feb 1992)
32. Cognitive Psychology Colloquium, Emory University, Atlanta, GA (Jan 1992)
33. Dept. of Radiology Seminar, Emory University, Atlanta, GA (May 1991)
34. Cognitive Psychology Colloquium, Emory University, Atlanta, GA (Oct 1990)
35. Sales & Service Seminar, Philips Corp. International, Best, The Netherlands (Dec 1986)
36. Applied Math Seminar, University of Waterloo, Waterloo, Canada (Jul 1986)

PUBLICATIONS

(Note that many of these articles are freely available through the [Cal Poly Digital Commons](#) website.)

Hill, T.P. & Rogers, E., 2012. "For Women to Think Mathematically, Colleges Should Think Creatively." *The Chronicle of Higher Education* 58 (33) April 20, 2012, p. A25. [[PDF](#)]

Hill, T.P., & Rogers, E., 2012. "Gender Gaps in Science: The Creativity Factor." *The Mathematical Intelligencer* 34(2):19-26 (2012). [[SPRINGER-PDF](#)] [[ARXIV-PDF](#)]

Brown-Sica, M., Sobel, K., & Rogers, E., 2010. "Participatory action research in learning commons design planning." *New Library World*, Vol. 111, No. 7/8. [[PDF](#)]

Vanasupa, L., Rogers, E., & Chen, K., 2008. "Work in Progress: How do we teach and measure systems thinking?" *Proceedings of 38th ASEE/IEEE Frontiers in Education Conference, 2008*. [[PDF](#)]

Somerville, M. M., Rogers, E., Mirijamdotter, A., & Partridge, H., 2007. "Collaborative evidence-based information practice: The Cal Poly digital learning initiative." In E. Connor (Ed.), *Case Studies in Evidence-Based Librarianship*, Oxford, England : Chandos Publishing, pp. 141-161.

Rogers, E., 2005. "Student usability project recommendations define information architecture for library technology." In *Proceedings of the 12th Annual Syllabus Higher Education Technology Conference*, Los Angeles, CA. [[PDF](#)]

Rogers, E., Somerville, M. & Randles, A., 2005. "A User-Centered Content Architecture for an Academic Digital Research Portal." In P. Kommers & G. Richards (Eds.), *Proceedings of World Conference on Educational*

- Multimedia, Hypermedia and Telecommunications 2005 (pp. 1172-1177). Chesapeake, VA: AACE. [\[PDF\]](#)
- Murphy, R.R. and Rogers, E., 2004. "Introduction to the Special Issue on Human-Robot Interaction." IEEE Transactions on Systems, Man and Cybernetics C, Vol. 34 No. 2. Special Issue on Human-Robot Interaction, pp. 101-102. [\[PDF\]](#)
- Burke, J.L., Murphy, R.R., Rogers, E., Lumelsky, V.J. and Scholtz, J., 2004. "Final Report for the DARPA/NSF Interdisciplinary Study on Human-Robot Interaction." IEEE Transactions on Systems, Man and Cybernetics C, Vol. 34 No. 2. Special Issue on Human-Robot Interaction, pp. 103-112. [\[PDF\]](#)
- Rogers, E., 2004. "Human-Robot Interaction." In W. S. Bainbridge (Ed.), Berkshire Encyclopedia of Human-Computer Interaction. Great Barrington, MA: Berkshire Publishing Group, LLC, 328-332. [\[PDF\]](#)
- Rogers, E. and Murphy, R.R., 2002. "Final Report for the DARPA/NSF Study on Human-Robot Interaction." [\[LINK\]](#)
- Rogers, E., Scheftic, C., Passi, E. and Lanaghan, S., 2000. "Instructional Design Agents - An Integration of Artificial Intelligence and Educational Technology." Proceedings of EdMedia 2000, World Conference on Educational Multimedia, Hypermedia and Telecommunications, CD-ROM. [\[PDF\]](#)
- Rogers, E., Fowler, T. and Hitchner, L.E., 2000. "Immersive Education - A New Technique for Collaborative Learning." Proceedings of American Society of Engineering Education - Pacific Southwest Regional Conference. April 2000.
- Wheeler, J. J. and Rogers, E., 1999. "Mental Models in Introductory CSC Concepts." Proceedings of 1999 Frontiers in Education Conference, CD-ROM. [\[PDF\]](#)
- Rogers, E., 1998. Guest Editor, "AI and the Changing Face of Healthcare." IEEE Intelligent Systems 13, No. 1, Jan-Feb 1998, 20-25.
- Rogers, E. and Ericson, B., 1998. "Interactive Image Cases for Medical Problem Solving." Proc. of 1998 IEEE International Conference on Systems, Man and Cybernetics, CD-ROM. [\[PDF\]](#)
- Rogers, E. and Murphy, R.R., 1998. "Intelligent Assistance for Human-Agent Interaction in Complex Environments." Working Notes for Workshop on Integrating Artificial Intelligence and Assistive Technology, 15th National Conference on Artificial Intelligence (AAAI-98).
- Murphy, R.R. and Rogers, E., 1998. "Intelligent Assistance for Human Supervisory Control of Multiple Robots." SPIE International Symposium on Aerospace: Robotic and Semi-Robotic Ground Vehicle Technology, vol. 3366, Apr13-17, 1998, Orlando, FL, 52-60. [\[PDF\]](#)
- Rogers, E., 1997. "Integrating Research into the Core Curriculum - A Case Study." Abstract in Proc. of 1997 Frontiers in Education Conference, CD-ROM. [\[PDF\]](#)
- Rogers, E., Murphy, R.R. and Thompson, C., 1997. "Outbreak Agent: Intelligent Wearable Technology for Hazardous Environments." Proc. of 1997 IEEE International Conference on Systems, Man and Cybernetics, Piscataway, NJ: IEEE Press, 3198-3203. [\[PDF\]](#)
- Washington, J. and Rogers, E., 1997. "The Impact of Multimedia Training on Mental Models of Simple Processes." Proc. of 1997 IEEE International Conference on Systems, Man and Cybernetics, Piscataway, NJ: IEEE Press, 2351-2356. [\[PDF\]](#)
- Rogers, E. and B. Ericson, 1997. "Knowledge Navigation for Visual Problem Solving." Abstract in Proc. of 19th Annual Conference of the Cognitive Science Society. Lawrence Erlbaum: Mahwah, NJ.
- Rogers, E., Murphy, R.R. and Ericson, B., 1997. "Agent-Based Expert Assistance for Visual Problem Solving." Proc. of 1st Int. Conference on Autonomous Agents, ACM Press, 156-163.
- Murphy, R.R. and Rogers, E., 1996. "Cooperative Assistance for Remote Robot Supervision." Presence 5, No. 2, Spring 1996, 224-240.
- Ericson, B. and Rogers, E., 1996. "Interactive Student Support for Introductory Computer Science Courses." Proc. of 1996 Frontiers in Education Conference, CD-ROM. [\[PDF\]](#)
- Kennedy, Y. and Rogers, E., 1996. "Re-Engineering Technical Education in Industry Through Interactive Multimedia Computer-Based Training." Proc. of 1996 Frontiers in Education Conference, CD-ROM. [\[PDF\]](#)
- Rogers, E., Murphy, R.R. and Ericson, B., 1996. "TeleVIA: Visual Interaction Assistance for Remote Robot Supervision." Proc. of 8th Int. Conference on Systems Research Informatics and Cybernetics, Baden Baden,

Germany.

- Rogers, E., 1996. "A Study of Visual Reasoning in Medical Diagnosis." Proc. of 18th Annual Conference of the Cognitive Science Society. Lawrence Erlbaum: Mahwah, NJ, 213-218. [[PDF](#)]
- Rogers, E., 1995. "A Cognitive Theory of Visual Interaction." In B. Chandrasekaran, J. Glasgow and N.H. Narayanan (eds.) Diagrammatic Reasoning: Computational and Cognitive Perspectives. AAAI/MIT Press: Menlo Park. CA.
- Rogers, E., 1995. "Cognitive Cooperation Through Visual Interaction." Knowledge-Based Systems 8, Nos. 2-3, April-June 1995, 117-125.
- Rogers, E., 1995. "VIA-RAD: A blackboard-based system for diagnostic radiology." Artificial Intelligence in Medicine 7, 343-360.
- Rogers, E., DuPont, V., Murphy, R.R. and Warsi, N., 1995. "Knowledge-Based Image Enhancement for Cooperative Tele-Assistance." Proc. 1995 Symposium on Human Interaction with Complex Systems, Human Interaction with Complex Systems, Kluwer: Norwell, MA. [[PDF](#)]
- Rogers, Murphy, R.R., Stewart, A. and Warsi, N., 1995. "Cooperative Assistance for Remote Robot Supervision." Proc. of 1995 IEEE Int'l Conf. on Systems, Man and Cybernetics. IEEE, 4581-4586. [[PDF](#)]
- Murphy, R.R., and Rogers, E., 1995. "Estimating Time Available for Sensor Fusion Exception Handling." SPIE Sensor Fusion VIII, Oct. 1995.
- Rogers, E., Kennedy, Y., Walton, T., Nelms, P. and Sherry, I., 1995. "Intelligent Multimedia Tutoring for Manufacturing Education." Proc. of 1995 Frontiers in Education Conference, CD-ROM. [[PDF](#)]
- Thompson, C., Daley, W., Hodges, L. and Rogers, E., 1995. "Multimedia in Manufacturing Education – MIME." Proc. of 1995 Frontiers in Education Conference, CD-ROM. [[PDF](#)]
- Rogers, E., 1994. "Perception and Problem-Solving in Diagnostic Reasoning." Working Notes for Int'l Workshop on Principles for Diagnosis (DX-94).
- Rogers, E., 1994. "Cognitive Engineering for Intelligent Man-Machine Systems." Proc. of 1994 IEEE Int'l Conf. on Systems, Man and Cybernetics. IEEE, 2729-2734. [[PDF](#)]
- Rogers, E., 1994. "Intelligent Visual Interaction: A Cooperative Paradigm." Advances in Artificial Intelligence - Theory and Application II, Proc. of 7th Int'l Conf. on Systems Research, Informatics & Cybernetics. Int'l Inst. for Advanced Studies in Systems Research and Cybernetics: Windsor, Canada , 1-6.
- Rogers, E. and Murphy, R.R., 1994. "Tele-Assistance for Semi-Autonomous Robots." Proc. of AIAA Conference on Intelligent Robots in Field, Factory, Service and Space. NASA Conference Publication 3251, 500-508. [[PDF](#)]
- Rogers, E., 1992. "A Cognitive Foundation for Intelligent Computer Display Systems." In Advances in Artificial Intelligence - Theory and Application, Proc. of 6th Int'l Conf. on Systems Research, Informatics and Cybernetics. Windsor, Canada : Int'l Inst. for Advanced Studies in Systems Research and Cybernetics, 13-18.
- Rogers, E., 1992. *Visual Interaction: A Link Between Perception and Problem-Solving*. Ph.D. Dissertation, Tech Report No. GIT-CC-92/59, Georgia Inst. of Technology, Atlanta, GA.
- Rogers, E. and Arkin, R.C., 1991. "Visual Interaction: A Link Between Perception and Problem Solving." Proc. of 1991 IEEE Int. Conference on Systems, Man, and Cybernetics. New York: IEEE Computer Society Press, 1265-1270. [[PDF](#)]
- Rogers, E., Arkin, R.C., and Baron, M., 1991. "Visual Interaction in Diagnostic Radiology." In Computer-Based Medical Systems, Proc. of the Fourth Annual IEEE Symposium. Los Alamitos, CA: IEEE Computer Society Press, 170-177. [[PDF](#)]
- Rogers, E., Arkin, R.C., Baron, M., Ezquerra, N., and Garcia, E., 1990. "Visual Protocol Collection for the Enhancement of the Radiological Diagnostic Process." In Proc. of the First Conference on Visualization in Biomedical Computing. Los Alamitos, CA: IEEE Computer Society Press, 208-215. [[PDF](#)]