

Brad A. Myers

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Research Interests:

User Interface Software, Programming Environments, End-User Software Engineering, API Usability, Smartphone User Interfaces, Demonstrational Interfaces, User Interface Design, Window Managers, Visual Programming.

Experience:

Human Computer Interaction Institute

Professor, 2004 - present.

Associate Research Professor, 2003 - 2004.

Senior Research Scientist, 1995 - 2003.

Computer Science Department

Senior Research Computer Scientist, 1992 - 1995.

Research Computer Scientist, July 1987- 1992.

School of Computer Science, Carnegie Mellon University, Pittsburgh, PA

Principal investigator for the Natural Programming Project, funded by NSF and industry, which is creating new programming languages, environments and tools that are easier to learn, more effective, and less error prone. We are taking a human-centered approach, first studying how people perform their tasks and then designing languages and environments around people's natural tendencies. We focus on all kinds of programming, including professional programmers, novice programmers who are trying to learn to be experts, and end user programmers, who program to support other jobs or activities.

Principal investigator for the Pebbles PDA project, funded by DARPA, NSF, SEI and industry, which is investigating the use of hand-held computers like Android smartphones, Pocket PC/Windows CE and PalmOS devices synchronously with PCs. By "synchronously," we mean that one or more hand-helds will be connected to a computer or computerized device, so that the hand-helds will be in continuous two-way communication with the main computer and with each other.

Principal investigator for the Silver Project, funded as part of the second Digital Libraries Initiative, which investigated authoring with digital video.

Principal investigator for the User Interface Software Project, funded by DARPA and industry, which developed sophisticated user interface development environments to help build graphical user interfaces.

Garnet, our earlier system, is in Lisp, and introduced encapsulating mouse and keyboard behaviors into abstract "interactors." Amulet, the second system, is in C++ and runs on Unix, Windows NT and 95, and Macintosh. Amulet is downloaded about 10,000 times a year, and incorporates novel object, constraint, input, output, undo, command and animation models to provide high-level support for highly-interactive, multi-media applications for one or multiple users. An important focus is high-level graphical editors which allow the user interface designer to draw all graphical aspects of user interfaces, and to demonstrate most of the behavior of the user interface.

Principal investigator for the Demonstrational Interfaces project, funded by NSF and industry. In a "demonstrational interface," the user gives an example of how the system should operate, and the system automatically generalizes from the example to produce a parameterized procedure. For instance, in the Macintosh Finder, the user might move "foo.PS" and then "bar.PS" to the trash can. The system might notice that a similar operation was performed twice and automatically create a procedure to delete all the "*.PS" files. We are developing a demonstrational visual shell (iconic desktop), a text formatter, an editor for business charts, an editor for dynamic world-wide-web pages, and an architecture for programs that support demonstrational interfaces.

MacGnome project (1987-1988): designed a system that creates visualizations for Pascal data structures.

Consultant

1984-present:

1. **Goldman Ismail Tomaselli Brennan & Baum LLP**, Chicago, IL
2. **Andrews Kurth Kenyon LLP**, New York, NY
3. **Irell & Manella LLP**, Los Angeles, CA
4. **Williams & Connolly LLP**, Washington, DC
5. **Marton Ribera Schumann & Chang LLP**, San Francisco, CA
6. **Tyz Marton Schumann, LLP**, San Francisco, CA
7. **Desmarais LLP**, New York, NY
8. **FACE Group (Fenix Media Ltd.)**, London, UK
9. **O'Melveny & Myers LLP**, Los Angeles, CA
10. **Goldberg, Lowenstein & Weatherwax LLP**, Los Angeles, CA
11. **White & Case LLP**, New York, NY
12. **Rothwell, Figg, Ernst & Manbeck, P.C.**, Washington, DC
13. **Klemchuk Kubasta LLP**, Dallas, TX
14. **Feinberg Day Alberti & Thompson, LLP**, Palo Alto, CA
15. **Finnegan, Henderson, Farabow, Garrett & Dunner, LLP**, Washington, DC
16. **Rubin/Anders Scientific, Inc.**, Brookline, MA
17. **Kellogg, Huber, Hansen, Todd, Evans & Figel, P.L.L.C.**, Washington, DC
18. **Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P.**, Alexandria, VA
19. **McDermott Will & Emery LLP**, Irvine, CA
20. **Mayer Brown LLP**, Palo Alto, CA
21. **IMS ExpertServices**, Pensacola, FL
22. **Sughrue Mion, PLLC**, Washington, DC
23. **Simmons & Simmons**, London, United Kingdom
24. **Latham & Watkins LLP**, Los Angeles, CA
25. **Sidley Austin LLP**, Dallas, TX
26. **Ropes & Gray LLP**, Washington, DC
27. **Adobe Systems Inc.**, San Jose, CA
28. **National Expert Witness Network**, Paradise, CA
29. **McKool Smith**, Austin, TX
30. **Morris, Nichols, Arsht & Tunnell**, Wilmington, DE
31. **Thompson & Knight L.L.P.**, Dallas, TX

32. **Emerson Process Management**, Austin, TX
33. **Clairvoyance Corporation**, Pittsburgh, PA
34. **Wilmer Cutler Pickering Hale and Dorr LLP**, Boston, MA
35. **University of Pittsburgh Dept. of Nursing**, Pittsburgh, PA
36. **Cooley Godward LLP**, Reston, VA
37. **Level 3 Communications**, Broomfield, CO
38. **Cesari and McKenna**, Boston, MA
39. **Fish & Richardson**, Boston, MA, San Diego, CA and Washington, D.C.
40. **Darby & Darby**, New York, NY
41. **Samsung Electronics**, Seoul, Republic of Korea
42. **Morrison & Foerster**, San Diego, CA
43. **Jones, Day, Reavis & Pogue**, Dallas, Texas
44. **Weil, Gotshal & Manges**, Menlo Park, CA
45. **Fenwick & West**, Palo Alto, CA
46. **Kirkland & Ellis**, Los Angeles, CA
47. **Silicon Valley Expert Witness Group Inc.**, Mountain View, CA
48. **Jenkins & Gilchrist**, Dallas, TX
49. **Merchant & Gould**, Minneapolis, MI
50. **GlobalOne**, Reston, VA
51. **Lindquist & Vennum**, Minneapolis, MI
52. **Wilson Sonsini Goodrich & Rosati**, Palo Alto, CA
53. **Klarquist, Sparkman & Campbell**, Portland, OR
54. **Leydig, Voit & Mayer, Ltd**, Chicago, IL
55. **Maya Design Group** Pittsburgh, PA
56. **McDonnell Boehnen Hulbert & Berghoff**, Chicago, IL
57. **Serviceware, Inc.**, Pittsburgh, PA
58. **Secure Computing Corp.**, Roseville, MN
59. **Venable, Baetjer and Howard, LLP**, Baltimore, MD
60. **AT&T General Solicitor Organization**, NJ
61. **Signal Software**, Pittsburgh, PA
62. **Visual Interface**, Pittsburgh, PA
63. **Nixon & Vanderhye P.C.**, Arlington, VA
64. **PROMIS Systems Corp.**, Toronto, Ont, Canada
65. **Emerson Advanced Materials Ctr**, Columbus, OH
66. **Boeing Advanced Tech. Center**, Seattle, WA
67. **Virtual Prototypes, Inc.** Montreal, Canada
68. **Apple Computer, Inc.** Cupertino, CA
69. **Teklicon, Inc.** Mountain View, CA
70. **EJV Partners**, New York, NY
71. **Horizon Research, Inc.** Waltham, MA
72. **Carnegie Group, Inc.** Pittsburgh, PA
73. **Brown and Bain**, Palo Alto, CA
74. **Microsoft**, Redmond, WA
75. **Formative Technologies, Inc.** Pittsburgh, PA
76. **MegaScan**, Gibsonia, PA
77. **Expert Technologies, Inc.**, Pittsburgh, PA
78. **Behavioural Team**, Toronto, Canada
79. **Ashton-Tate, Inc.** Torrance, CA
80. **Eaton Corporation**, Los Angeles, CA
81. **Program Products Ltd**, London, England
82. **Institute for Defense Analyses**, Alexandria, VA
83. **Infodetics**, Anaheim, CA
84. **Ventura Technologies**, Toronto, Canada

85. PERQ Systems Corporation, Pittsburgh, PA

Advise on user interface design, user interface software, window manager design and implementation. Perform usability analyses and redesign of products.

Intellectual property consulting for software and user interface patents. Reports, depositions and trial testimony on claim construction, infringement, prior art, and validity. [A list of my testimony is in a separate document.](#)

PIXterity, (formerly PhotoByte Inc.), San Francisco, CA
Advisor, UI/UX, 2012-present

SachManya LLC, Sunnyvale, CA
Strategic User Interface Advisor, Web and Mobile, 2010-present

Manchester Business School, The University of Manchester, Manchester, UK
Visiting Professor, 2007-2008.

EkaTetra Corporation, (formerly Clarinet Keyboard Corporation), Portland, OR
Technical Member of the Advisory Committee, 2001-present

Helium Networks, Pittsburgh, PA
Member of the Scientific Advisory Board, 2004-2006

SCIconics, Inc., Pittsburgh, PA
Member of the Advisory Board, 2002-2005

Eizel Corporation, Pittsburgh, PA
Member of the Advisory Board, 2001-2003

PERQ Systems Corporation, Pittsburgh, PA
(formerly **Three Rivers Computer Corporation**)
Senior Software Engineer, 1980-1983.

Designed and implemented the Sapphire Window Manager, which was one of the first commercial window systems and featured full covered windows, a novel use of icons and percent-done progress indicators. Designed and implemented the PERQ directory structure for a hierarchical file system including a Scavenger program to correct file system inconsistencies. Also designed and implemented the PERQ's Pascal debugger, a comprehensive user interface package, various graphical editors, demonstration programs, and games.

Xerox Palo Alto Research Center, Palo Alto, CA
Research Intern, Summer 1977, Summer 1978, and Summer/Fall 1979
Developed a system called Incense which automatically created graphical, pictorial displays for data structures based on their types. Implemented Ethernet protocols in Smalltalk.

Education:

University of Toronto, Toronto, Ontario, Canada
1983-1987.

PhD in Computer Science, May, 1987. Was a Teaching Assistant for computer graphics courses. Grade point average for course work = A+.

Massachusetts Institute of Technology, Cambridge, Massachusetts
1975-1980.

Received Master of Science in Computer Science and Bachelor of Science in Computer Science and

Engineering in 1980. Did Master's thesis on Incense while an intern at Xerox PARC. Worked at MIT Architecture Machine Group, 1976-1979. Final grade point average: 5.0 out of 5.0 (A+)

Awards and Honors:

Most Influential Paper at *The 30th International Conference on Software Engineering -- ICSE'2018*, for "Debugging, Reinvented: Asking and Answering Why and Why Not Questions about Program Behavior" by Andrew J. Ko and Brad A. Myers, from ICSE 2008.

Most Influential Paper winner for important influences on VL/HCC research or commerce over the last 10+/-1 years by the *IEEE Symposium on Visual Languages and Human-Centric Computing* in 2017, for J. Stylos; B. A. Myers: "Mica: A Web-Search Tool for Finding API Components and Examples" from VL/HCC'2006. (*Only person to win four times!*)

Best Paper Award from the *Sixth International Symposium on End User Development (IS-EUD 2017)* for: "Programming IoT Devices by Demonstration on Mobile Apps", Toby Jia-Jun Li, Yuanchun Li, Fanglin Chen and Brad A. Myers.

ACM SIGCHI Lifetime Achievement Award in Research, 2017, for outstanding fundamental and influential research contributions to the study of human-computer interaction. See [SIGCHI citation](#), [video](#) of the talk (1:18:12), [slides](#), [advisee tree](#), [abstract](#) and [Steven Feiner's introduction](#).

Best Paper Honorable Mention Award from the *CHI 2017 conference* for: "Variolite: Supporting Exploratory Programming by Data Scientists", Mary Beth Kery, Amber Horvath, and Brad Myers.

Best Paper Honorable Mention Award from the *CHI 2017 conference* for: "SUGILITE: Creating Multimodal Smartphone Automation by Demonstration", Toby Li, Amos Azaria, and Brad Myers.

Most Influential Paper Award for important influences on VL/HCC research or commerce over the last 10+/-1 years by the *IEEE Symposium on Visual Languages and Human-Centric Computing* in 2014, for "Estimating the Numbers of End Users and End User Programmers", Christopher Scaffidi, Mary Shaw, and Brad Myers, from VL/HCC'05. (*Only person to win three times!*)

Most Influential Paper Award for important influences on VL/HCC research or commerce over the last 10+/-1 years by the *IEEE Symposium on Visual Languages and Human-Centric Computing* in 2013, for "Six Learning Barriers in End-User Programming Systems", Andrew J. Ko, Brad A. Myers, and Htet Htet Aung, from VL/HCC'04. (*1st person to win twice! See [list of all winners](#)*)

Best Paper Honorable Mention Award from the *CHI 2013 conference* for: "In Search of Learning: Facilitating Data Analysis in Educational Games", Erik Harpstead, Brad Myers, Vincent Aleven.

IEEE Fellow, 2013, "for development of software tools for human-computer interaction." [IEEE 2013 List](#), and the [CMU press release](#).

[Most Influential Paper Award](#) for important influences on VL/HCC research or commerce over the last 10+/-1 years by the *IEEE Symposium on Visual Languages and Human-Centric Computing* in 2012, for "Using HCI techniques to design a more usable programming system", Pane, J.F., Myers, B.A., and Miller, L.B., from HCC'2002.

Nominated for Most Influential Paper Award for important influences on VL/HCC research or commerce over the last 10+/-1 years by the *IEEE Symposium on Visual Languages and Human-Centric Computing* in 2012, for "Development and evaluation of a model of programming errors", Ko, A.J. and Myers, B.A., from HCC 2003.

Nominated for Most Influential Paper Award for important influences on VL/HCC research or commerce over the last 10+/-1 years by the *IEEE Symposium on Visual Languages and Human-Centric Computing* in 2011, for "Tabular and textual methods for selecting objects from a group", Pane, J.F. and Myers, B.A., from *VL'2000*

Honorable Mention Award in the Best Paper Contest at the International Conference on Intelligent User Interfaces (IUI 2010) for: Andrew Faulring, Brad Myers, Ken Mohnkern, Bradley Schmerl, Aaron Steinfeld, John Zimmerman, Asim Smailagic, Jeffery Hansen, and Daniel Siewiorek. "Agent-Assisted Task Management that Reduces Email Overload," Hong Kong, China. Feb 7–10, 2010.

First place in the "Yahoo! Undergraduate Research Awards" competition at Carnegie Mellon University, May 6, 2009, for Daniel S. Eisenberg, Jeffrey Stylos, and Brad Myers, "Apatite: An Associative Search Tool for Exploring the Java API".

Best Research Award, Non-Physician Category at ISHLT: The International Society for Heart & Lung Transplantation, April 9-12, 2008, for: A. DeVito Dabbs, M.A. Dew, B.A. Myers, R.P. Hawkins, D. Ren, A. Begey, R. Zomak, K.L. Lo Coco, K.R. McCurry. "A Randomized Controlled Pilot Trial of PocketPATH on Early Self-Care Behaviors and HRQoL After Lung Transplant."

[ACM SIGSOFT Distinguished Paper Award](#) at the 30th International Conference on Software Engineering (ICSE'2008) for "Debugging, Reinvented: Asking and Answering Why and Why Not Questions about Program Behavior" by Andrew J. Ko and Brad A. Myers. May, 2008.

University of Pittsburgh School of Nursing's Nursing Excellence in Teaching and Technology (NETT) Award for 2007 to PocketPATH, by Annette De Vito Dabbs, Brad A. Myers, Kenneth R. McCurry, Jacqueline Dunbar-Jacob, Robert P. Hawkins, Mary Amanda Dew.

[CHI 2006 Best Paper](#), awarded by SIGCHI, for "Trackball Text Entry for People with Motor Impairments," by Jacob O. Wobbrock and Brad A. Myers.

Designated an *ACM Fellow*, 2005. ([citation](#)) and ([press release](#))

Elected to the [CHI Academy](#), April, 2004, as one of the top 25 "[principal leaders of the field](#)" of HCI.

Distinguished Paper Award at the 27th International Conference on Software Engineering (ICSE'05) for "Eliciting Design Requirements for Maintenance-Oriented IDEs: A Detailed Study of Corrective and Perfective Maintenance Tasks" by Andrew J. Ko, Htet Htet Aung, and Brad A. Myers. May, 2005.

Elected to the grade of Senior Member, IEEE (September, 2004).

First place in the 2004-2005 [NISH](#) National Scholar Awards for Workplace Innovation & Design, to Jacob Wobbrock, supervised by Brad Myers. Press release as [pdf](#)

Best Paper Award at the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '04) for "Text Entry from Power Wheelchairs: EdgeWrite for Joysticks and Touchpads" by Jacob O. Wobbrock, Brad A. Myers, Htet Htet Aung, and Edmund F. LoPresti. October 2004.

Best Student Paper award at USENIX 2000 Annual Technical Conference for "Integrating a Command Shell into a Web Browser" by Robert Miller and Brad Myers. June 2000.

Outstanding Paper Award at USENIX 1999 Annual Technical Conference for "Lightweight Structured Text Processing" by Robert C. Miller and Brad A. Myers. June 1999.

Winner, first place in the "Personal Productivity" category in the ACM Quest for Windows CE Applications, 1999.

Listed in *Marquis Who's Who in America, 2007, 2009, Marquis Who's Who in Finance and Industry, 2004-2005, Marquis Who's Who in the East, 1995-2000, Marquis Who's Who in the World, 1996, Marquis Who's Who in the Media and Communications, 1997-1999, and Marquis Who's Who in Science and Engineering, 1998-2001*. Included in *2000 Outstanding Scientists of the 20th Century*, International Biographical Centre, Cambridge, England.

PhD thesis nominated for ACM annual best dissertation contest. Selected to join Eta Kappa Nu and Tau Beta Pi. IEEE Student Paper contest winner 1978 and 1979. Awarded University of Toronto Open Fellowship. Graduated First Honor Student from Isadore Newman High School, 1975.

My Place in Some Listings:

One of the most published authors in HCI, according to hcibib.org.

In the top 25 authors in [HCI in Google Scholar](https://scholar.google.com/citations?hl=en&user=bradmyers).

One of the top authors at the [annual ACM SIGCHI conference](https://www.acm.org/sigchi).

Listed in [The h Index for Computer Science](https://www.h-index.com/): Computer Science researchers who have an h index of 40 or higher according to Google Scholar (<http://www.cs.ucla.edu/~palsberg/h-number.html>).

Research Grants:

- Google Faculty Research Award, "Studies and Tools for Improving the Usability of Google's APIs," 2018-2019, \$79,951.
- Bloomberg L.P., 2017-2018, "Support for Exploratory Programming," \$90,000.
- Google Faculty Research Award, "Studying and Improving the Usability of Google's APIs," 2017-2018, \$78,899.
- Yahoo! InMind. "Automating Repetitive and Cross-App Tasks", Brad Myers and Toby Jia-Jun Li. \$200,000. 2016-2017.
- Adobe Systems Incorporated, 2017: \$11,994 software; 2016: \$11,994 software; 2015: \$11,994 software; 2014: \$9,000 cash and \$960 software; 2013: \$18,000 cash; 2012: \$24,000 cash; 2011: \$8,500 cash and \$12,995 software; and 2007: \$70,000 cash, for "Making Programming Interactive Behaviors More Natural"
- NSF. CNS-1734138, "Research Experience for Undergraduates" (REU) for CNS-1423054, "TWC: Small: Empirical Evaluation of the Usability and Security Implications of Application Programming Interface Design", 2017, \$16,000.
- NSF. IIS-1734141, "Research Experience for Undergraduates" (REU) for IIS-1314356 "HCC: Large: Collaborative Research: Variations to Support Exploratory Programming", 2017, \$16,000.
- Canadian Institutes of Health Research: Foundation Scheme Second Live Pilot 2015-2016. "Design for Better Health: User-Centred Design and Evaluation of Interactive Media for Health Education, Communication and Decision Making." Holly Witteman (PI), Jessica Ancker (co-I), Patrick Archambault (co-I), Nicholas Bansback (co-I), Marie-Dominique Beaulieu (knowledge user co-I), Jacqueline Bender (co-I), Julie Bettinger (co-I), Christine Chambers (co-I), David Chan (knowledge user co-I), Heather Colquhoun (co-I), Sophie Desroches (co-I), Caroline Diorio (co-I), Maman Dogba (co-I), Eve Dubé (co-I), Angela Fagerlin (co-I), Marie-Pierre Gagnon (co-I), Teresa Gavaruzzi (co-I), Anik Giguère (co-I), Devon Greyson (co-I), Jeremy Grimshaw (co-I), Kelly Grindrod (co-I), Aubri Hoffman (co-I), Noah Ivers (co-I), Shalini Lal (co-I), Julie Leask (co-I), Annie LeBlanc (co-I), Jean Légaré (lead patient partner co-I), France Légaré (co-I), Shannon MacDonald (co-I), Matthew Menear (co-I), Arwen Pieterse (co-I), Mary Politi (co-I), Justin Presseau (co-I), Geneviève Roch (co-I), Margarida Romero (co-I), Beate Sander (co-I), Laura Scherer (co-I), Dawn Stacey (co-I), Sébastien Tremblay (co-I), Robert Volk (co-I), Bryna Warshawsky (co-I),

- Douglas White (co-I), Michael Wolf (co-I), Colleen Young (lead patient partner co-I), Brian Zikmund-Fisher (co-I), Glyn Elwyn (external mentor), Victor Montori (external mentor), **Brad Myers (external mentor)**, Ellen Peters (external mentor), Anne Stiggelbout (external mentor), Sharon Straus (external mentor). April 1, 2016 - March 31, 2022. CAD\$1,403,955.
- NSF. IIS-1644604, "Research Experience for Undergraduates" (REU) for IIS-1314356 "HCC: Large: Collaborative Research: Variations to Support Exploratory Programming", 2016, \$16,000
 - MITRE. "Partnership to Increase the Quality of Government Software: Identifying barriers to developing quality software and creating a solid base for future experimentation", Brad Myers, Jonathan Aldrich and Joshua Sunshine. June 27 - September 30, 2015. \$100,000.
 - NIH. 1R21AG050252. "Developing a Web and Tablet based Tool to Improve Communication and Shared Decision Making between Clinicians and Surrogates in ICUs," Douglas B. White, Holly Witteman, Robert Arnold, Francis Pike, and Brad Myers. 07/01/2015 – 02/28/2017. CMU Sub-award: \$39,862.
 - NIH. "KL2 career development award: Design and Pilot Testing of an Online Advance Care Planning Tool for Patients with Advanced Lung Disease," Wishwa Kapoor, Jared Chiarchiaro and Brad Myers.
 - NSF. CNS-1539150, "Research Experience for Undergraduates" (REU) for CNS-1423054, "TWC: Small: Empirical Evaluation of the Usability and Security Implications of Application Programming Interface Design", 2015, \$16,000
 - NSF. CNS-1423054, "TWC: Small: Empirical Evaluation of the Usability and Security Implications of Application Programming Interface Design," Brad A. Myers, Sam Weber, and Robert Seacord, 9/1/2014 - 8/31/2017, \$499,109.
 - Beckwith Foundation Clinical Transformation Program award, "Developing a Communication and Shared Decision Making Tool For Surrogates in ICUs", PI: Douglas B. White, MD, MAS, University of Pittsburgh, 2014-2015, CMU part: \$14,750 as Co-Investigator.
 - Software Engineering Institute (SEI), Sam Weber, Robert Seacord, Forrest Shull, Robert Schiela, and Brad Myers, "API Usability and Security", 2014-2015. \$500,000.
 - NSF. IIS-1434285, "Research Experience for Undergraduates" (REU) for IIS-1314356 "HCC: Large: Collaborative Research: Variations to Support Exploratory Programming", 2014, \$16,000
 - Contour Design, Inc., RollerMouse Red plus, "Interaction techniques study", 2014, \$265.
 - National Institutes of Health, Grant Number: 1R21HL121744-01, "Health Literacy-Sensitive Decision Aid About Transplantation for COPD Patients", Cynthia Gries, PI. \$421,478, Subaward to CMU for 1/1/14 - 12/1/15: \$14,198.
 - NSF. IIS-1314356 "HCC: Large: Collaborative Research: Variations to Support Exploratory Programming", Brad A. Myers, Margaret M. Burnett, Martin Erwig, Gregg Rothermel, Anita Sarma, and Andrew J. Ko. 8/1/2013-7/31/2017, \$2,999,991.
 - Microsoft Research, 2012, \$1,500 equipment, "Natural Programming for handhelds."
 - SAP, Inc., 2011: \$160,000 & 2010: \$160,000 & 2009: \$160,000 & 2007: \$160,000. API Usability.
 - Software Engineering Institute (SEI), "Edge-Enabled Tactical Systems: User Controlled System Adaptation." Ed Morris, Grace Lewis, Brad Myers, Soumya Simanta, Gene Cahill. 2011-2012.
 - Adobe Systems Incorporated, to the Human Computer Interaction Institute as part of the Adobe Academic Alliance and the Partners by Design program. 2014: \$11,994 equipment; 2013: \$11,994 equipment; 2012: \$26,250 equipment; 2011: \$56,000 equipment; 2010: \$41,000 equipment; 2009: \$24,520 equipment; 2008: \$53,800 equipment
 - NSF. IIS-1116724 "HCC: Small: Better Tools for Authoring Interactive Behaviors," 8/1/2011 - 7/31/2014, \$495,153.
 - DARPA ENGAGE Program, "Active Science Learning Through Games", Scott M. Stevens, Michael G. Christel, Christopher Klug, Jesse Schell, Brad Myers, Vincent A.W.M.M. Aleven, Sharon McCoy Carver, Award #N0001412C0071. 6/15/2011 - 2/14/2014. \$1,900,000.
 - Microsoft Research, Software Engineering Innovation Foundation (SEIF) Awards 2011, "Better Tools for Authoring Interactive Behaviors", \$35,000. ([Microsoft announcement](#))
 - National Instruments, LabVIEW Materials, 2011, \$2860 equipment.

- Software Engineering Institute (SEI) Independent Research and Development (IRAD) project, "Edge-Enabled Tactical Systems." Ed Morris, Soumya Simanta, Dan Plakosh, Brad Myers, Dennis Smith, Scott Tilley. 2010-2011.
- Microsoft Corporation to the Human Computer Interaction Institute, Expression Suite and training, 2010, \$14,585 equipment.
- Google. AndroidEDU grant for Pebbles Project, March, 2010. \$1120 equipment.
- NSF. IGERT. 2009. "Carnegie Mellon Usable Privacy and Security Doctoral Training Program". (Supporting Faculty)
- NSF. IIS-0936440 "REU to CPA-SEL: Betters Tools for Software Understanding", 05/01/2009, \$16,000, Research Experiences for Undergraduates.
- NSF. IIS-0936407 "REU to CreativeIT: Pilot: Exploratory Programming for Interactive Behaviors: Unleashing Interaction Designers' Creativity", 05/01/2009, \$16,000, Research Experiences for Undergraduates.
- NIH/NINR. R01NR010711, "Phase III Trial of PocketPATH: A Computerized Intervention to Promote Self-Care," 07/01/2008-04/30/2013. \$2,076,909. (PI is [Prof. Annette DeVito Dabbs](#) at Univ. Pitt)
- NSF. CCF-0811610, "CPA-SEL: Betters Tools for Software Understanding", 7/1/08-6/30/11, \$300,000.
- NSF. IIS-0757511 "CreativeIT: Pilot: Exploratory Programming for Interactive Behaviors: Unleashing Interaction Designers' Creativity", 05/01/2008-04/30/2010, \$200,000.
- EEC-0540865, "[Quality of Life Technology Engineering Research Center](#)". 5/17/2006-5/31/2011. \$15,000,000.
- Microsoft Research, Support for the Pebbles Project. 2007: \$10,939 equipment; 2006: \$80,000 cash and \$2,500 equipment; 2004: \$4,000 equipment; 2003: \$8,500 equipment; 2002: \$80,000 cash; 2001: \$70,000 cash; 2000: \$70,000 cash; 1999: \$150,000 cash; 1998: \$100,000 cash + \$2,600 equipment.
- IBM. [2006 Eclipse Innovation Award](#). "Program Understanding and Debugging in Eclipse". \$27,000
- NSF. EEC-0540865, "[Quality of Life Technology Engineering Research Center](#)". 5/17/2006-5/31/2011. \$15,000,000.
- NSF. IIS-0534349. "Automatically Generating Consistent User Interfaces for Multiple Appliances." 12/1/05-11/30/08. \$412,000.
- NACME/Philip D. Reed Undergraduate Fellowship. ([The National Action Council for Minorities in Engineering](#)). \$2,000 for Ivan Gonzalez, Brad Myers. 2005-2006.
- General Motors. "Using Handheld Devices for Information and Control in Vehicles." 2006: \$87,365. 2005: \$83,678. 2004: \$83,678. 2003: \$83,678; Summer, 2002: \$5000.
- Synaptics, Inc. 2004. Equipment: \$600.
- Nokia Research Center, Finland. 2004. Equipment: \$2000.
- [AT Sciences, LLC](#). 2004. Equipment: \$1300.
- [SMART Technologies, Inc.](#). 2000: Equipment: \$2998. 2004: Equipment: \$50.
- Lutron, Inc. "Remote Control of UPnP Devices". 2003. \$2000.
- Lantronix, Inc. "Remote Control of UPnP Devices". 2003. \$1144.
- NSF. IIS-0329090. "Lowering the Barriers to Successful Programming." Brad Myers and Randy Pausch. 2003-2007. \$1,200,000
- NSF ITR CCR-0324770: "Collaborative Research: Dependable End-User Software". 2003-2007. Margaret M. Burnett, Gregg Rothermel, Brad Myers, Martin Erwig, Margaret L. Niess, Sebastian Elbaum, Mary Beth Rosson, Mary Shaw, Susan Wiedenbeck. \$2,640,000. CMU Portion: \$324,000.
- IBM Canada, Ltd. "Update Pebbles for new Palms." 2003. Equipment: USD \$1,792.09
- DARPA. "Evolutionary Development of Self-Aware Learning Agents." Dan Siewiorek, Jaime Carbonell, Tom Mitchell, Manuela Veloso, Brad Myers, Randy Pausch, Alex Waibel, Eric Nyberg, Bill Scherlis, Raj Reddy, Howard Wactlar. \$38,765,940. 2003 - 2007.
- NEC Foundation of America. "Handhelds as Assistive Technologies for People with Muscular Disabilities." 2003. \$50,000.
- NSF. UA-0308065. "Using Handhelds to Help People with Motor Impairments." 2003-2007. \$475,232.
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Professional Activities:

Chair:

- Chair 2014-2017, and Vice-Chair 2011-2014, [VL/HCC Conference Steering Committee](#)
- Chair, [SIGCHI Achievement Awards committee](#), 2010-2012.
- General Conference Chair, [IEEE VL/HCC 2011](#). IEEE Symposium on Visual Languages and Human-Centric Computing, September 18–22, 2011, Pittsburgh, PA.
- Corporate Sponsors Co-Chair, UIST'2008, UIST'2007.
- Co-Organizer, "[End-User Software Engineering](#)" Dagstuhl Conference, 18.02.07 - 23.02.07, Seminar 07081, Organizers: Margaret M. Burnett, Gregor Engels, Brad A. Myers, Gregg Rothermel
- Corporate Sponsors Chair, UIST'2006, UIST'2005, UIST'2004, UIST'2003, UIST'2002, UIST'2001, UIST'2000 and UIST'1999: the ACM Symposium on User Interface Software and Technology.
- Associate Chair, [Product Design and Usability \(PDU\) Consortium](#), at Carnegie Mellon University, Pittsburgh, PA.
- Co-organizer, NSF [Workshop on Creativity Support Tools](#), June 13-14, 2005. Radisson Barcelo Hotel in Washington, DC.
- Program Co-Chair (with Jamie Frankel, MERL), Human Computer Interaction Consortium (HCIC'04), Fraser, CO, 2004.
- Co-Chair, Human-Computer Interaction working group at the ACM & NSF Workshop on Strategic Directions in Computing Research, June 14-15, 1996.
- General Conference Chair for UIST'95: the ACM Symposium on User Interface Software and Technology.
- Video Chair, 1990 and 1992 ACM SIGCHI Conferences.
- Organizer, SIGCHI'91 two-day Workshop: Computer Languages for Programming User Interface Software, April 28-29, 1991.
- Displays Chair, 1988 IEEE Workshop on Visual Languages.
- Chair, ACM SIGCHI User Interface Magazine Committee, 1990-1991.

Editorial:

- Associate Editor, [Journal of Visual Languages and Sentient Systems](#), 2015 (Founding) - present.
- Editorial Board, [Springer Human-Computer Interaction Series](#) of books. 2013-present.
- Associate Editor, *Journal of Visual Languages and Computing*. 1989 (Founding) - present.
- Founding Editors and Advisors Board (previously: Computer Sciences Editorial Board), *Interacting with Computers*. 1996 - present.
- Editorial Board, *Human-Computer Interaction Journal*, 1990-2017.
- Guest co-editor, Special Issue of *IEEE Software* on [End-User Software Engineering](#), September/October 2009.
- Guest co-editor, Special Issue of *ACM Transactions on Computer-Human Interaction (TOCHI)* on Web Accessibility, 2006.
- Associate Editor, *ACM interactions* magazine. 1993 (Founding) - 2007
- Associate Editor, *ACM Transactions on Computer-Human Interaction*. 1993 (Founding) - 2006
- Guest co-editor, Special issue on Handheld Computing of *IEEE Computer*, September, 2003.
- Editorial Board, *inSight*, Academic Press Daily Science News Service on the Internet, 1998.

- Associate Editor, *ACM Transactions on Information Systems*, 1991-1993.
- Advisory Editor, Jones and Bartlett Publishers, Inc. 1991-1993.
- Guest editor, Special issue on User Interface Software of *ACM Transactions on Information Systems*, July, 1990.

Program Committees:

- Organizing Committee, [Dagstuhl Seminar 18061](#), "Evidence about Programmers for Programming Language Design", Stefan Hanenberg, Brad A. Myers, Bonita Sharif, Andreas Stefik. Schloss Dagstuhl International Conference And Research Center For Computer Science, Germany. February 4 - 9, 2018.
- Program Committee, Sixth Workshop on the Evaluation and Usability of Programming Languages and Tools (PLATEAU), [2016](#) and [2015](#).
- Program Committees, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), [2016](#), [2015](#), [2014](#), [2013](#), [2012](#), [2010](#), [2009](#).
- Program Committees, ACM Symposia on User Interface Software and Technology (UIST), 2014, 2005, 2000, 1990, and 1989.
- Program Committee, [LIVE 2013](#): Workshop on Live Programming, at ICSE'2013, San Francisco, CA, May 19, 2013.
- Program Committees, ACM SIGCHI Symposium on Engineering Interactive Computing Systems, [EICS'2010](#), [EICS'2009](#)
- Organizing Committee, Software Engineering Foundations for End User Programming ([SEEUP](#)) Workshop at ICSE'2009.
- Program Committee, Second International Symposium on End User Development ([IS-EUD'2009](#)), March 2-4, 2009. Siegen, Germany.
- Program Committee, The Fourth Workshop on End-User Software Engineering ([WEUSE IV](#)), Co-located with ICSE 2008, Leipzig, Germany. May 12, 2008.
- Organizing Committee, Dagstuhl Seminar 07081, "[End-User Software Engineering](#)", M. M. Burnett, G. Engels, B. A. Myers, G. Rothermel. Schloss Dagstuhl International Conference And Research Center For Computer Science, Germany. Feb 18, 2007 - Feb 23, 2007.
- Organizing Committee, 2nd Workshop on End-User Software Engineering ([WEUSE II](#)) at CHI'2006, Montreal, Canada, April 23, 2006.
- Program Committee, [Workshop on The Many Faces of Consistency in Cross-platform Design](#) at CHI'2006, April 23, 2006, Montreal.
- Program Committee, 1st Workshop on End-User Software Engineering ([WEUSE 2005](#)) at ICSE 05, Saint Louis, MO, May 21st 2005.
- Program Committee, [Third IEEE Symposium on End-User Programming and Domain Specific Programming](#), October 28-31, 2003, Auckland, New Zealand.
- Program Committee, [MobileHCT'03](#): Fifth International Symposium on Human Computer Interaction with Mobile Devices and Services, Udine (Italy), 23-26 September 2003
- Program Committee, [International Workshop on Visual Languages and Computing, VLC'03](#), Florida International University, Miami, Florida, September 24-26, 2003.
- Program Committee, CHI'2003 Workshop on [Perspectives in End User Development](#).
- Program Committee, ICMI'2002: International Conference on Multimodal Interfaces.
- Program Committee, IUI'2002: International Conference on Intelligent User Interfaces (IUI), 2002.
- Program Committee, Shared Environments to Support Face-to-Face Collaboration Workshop at CSCW'2000.
- Program Committee, ADL'2000: IEEE Advances in Digital Libraries Conference, May 22-24, 2000, Washington, D.C.
- Program Committee, 4th USENIX Windows Systems Symposium. August 3-4, 2000, Seattle, Washington.
- Program Committee, DSL'99: 2nd Usenix Conference on Domain Specific Languages. Oct 6-9, 1999 in Austin, Texas.
- Doctoral Consortium Committee, 1997 ACM SIGCHI Conference.

- Short Papers & Interactive Posters: CHI'95.
- Videos: ACM CHI'91, and INTERCHI'93 Conferences.
- Papers: ACM SIGCHI+GI'87, CHI'89, CHI'91, and CHI'99 Conferences.
- Program: 1988, 1989 and 1990 IEEE Workshops on Visual Languages.
- Program: First (1990) and Second (1991) EUROGRAPHICS Workshops on Object Oriented Graphics.

Other Committees:

- DARPA ISAT Augmented Developers: Tools for Hybrid Human-Machine Software Engineering Workshop, February 23-24, 2017, Arlington, VA
- VL/HCC Conference Steering Committee, 2009-2017
- ACM Doctoral Dissertation Award Committee, 2016-2019.
- IEEE Fellows Review Committee, 2016-2017.
- DARPA ISAT Fostering Adoption of Programming Languages Workshop, February 11-12, 2013, Philadelphia, PA
- Academic Program Review (APR) Committee for the Department of Computer Science at the University of Southern California (USC), February, 2014
- Member of the International Advisory Board of the [Master Program in Human Computer Interaction \(HCI\)](#) at the University of Siegen, Siegen, Germany, 2009-present.
- IEEE Senior Member Review Panel, 2009
- Microsoft Consumer Productivity Experiences Group Advisory Council. 2006-2008.
- Microsoft Research University Relations Faculty Advisory Board. 2003.
- DARPA HCI Workshop, October 28-29, 1992, Pittsburgh, PA.
- DARPA ISAT Study Group: Gentle Slope Systems. August, 1992, Woods Hole, MA.
- DARPA ISAT Study Group: Intelligent Interfaces. August, 1991, Woods Hole, MA.
- NSF Workshop: An Agenda for Human-Computer Interaction Research: Science and Engineering Serving Human Needs. Washington, D.C. March 4-5, 1991.
- SIGCHI Publications Committee, 1989-1994.
- SIGCHI Committee on Flagship Publications, 1989-1990.

Reviewer:

- External expert in tenure track evaluation at Aalto University, Finland, 2013
- NSF Panel Reviewer for grant proposals (various programs), 1997, 2000, 2004, 2005, 2007, 2008, 2014.
- Grant proposals for the National Science and Engineering Research Council (NSERC) of Canada, European Research Council of Brussels, Belgium (2014), etc.
- Government of Quebec, Ministere du Conseil executif, Fonds de developpement technologique.
- Book manuscripts for Academic Press, Morgan-Kaufmann, Addison-Wesley, Prentiss-Hall, Benjamin Cummings, etc.
- Papers for: SIGCHI, SIGGRAPH, UIST, TOCHI, HCI, IwC, IEEE CG&A, IEEE Computer, IEEE Software, IEEE Transactions on Software Engineering, ACM TOG, HICSS, IJCAI, TOPLAS, The Visual Computer, Software Practice & Experience, etc.

Societies:

SIGCHI, ACM (Fellow), IEEE Computer Society, IEEE (Fellow), Electronic Frontier Foundation (EFF), American Association of University Professors (AAUP).

CMU Activities:

- Institutional Review Board (IRB) Member, 2016-present.
- University Research Council (URC), 2016-present.

- University Research Council – IP Policy Subcommittee, 2017 - present
- SCS Council member, 2014-present.
- Lifetime Member, Order of the May, 2013 - present.
- HCII External Awards Coordinator, 2013 – present.
- Faculty Senator: representing HCII, 2012 - 2018; representing Computer Science, 1994 - 1996.
- Organizer for the HCI Seminar Series, 1992-1993, and 1999-present.
- SCS Space Committee, member, 2015.
- HCII Space Committee Chair, 2013 - 2015.
- Co-Chair, [HCII 20th Anniversary](#) Committee, 2014 (with Amy Ogan and Chris Harrison)
- Marshall of the SCS Masters Students, CMU Commencement, 2015, 2014, and 2007.
- HCII Internal Operations Committee Chair, 2013 - 2014.
- SCS Faculty Reappointment and Promotion Committee, ad hoc member, 2012-2014.
- ETC Teaching Professor Review Committee, 2014.
- Admissions Committee, HCI Institute's PhD Program, 1999-2003, 2009-2010, 2013.
- HCII Committee on Forming a Minor in HCI, 2012.
- Admissions Committee, HCI Institute's Master's Program, 1995-1996, 2009-2011.
- Participant, Interdisciplinary Research Training Opportunities in Assistive Technology at CMU and the University of Pittsburgh ([IGERT Program](#)). 2003-2007.
- Member, HCII Executive Committee, 2004-2009.
- Co-Leader, (with Michael Boninger) of the Human-System Interaction Thrust of the [Quality of Life Technology \(QoLT\) Engineering Research Center](#), 2005-2007
- Member, Quality of Life Technology Engineering Research Center, ([QoLT](#)), 2005-2007.
- Member, [HCII Twelfth Anniversary](#) Committee, 2005-2006.
- Member, [General Motors Collaborative Laboratory](#), 2003-2007.
- Member, Center for Wireless and Broadband Networking, 2001-2006.
- Member, MERITS of Pittsburgh: Medical Robotics and Information Technology for Medicine and Surgery, 2001-2005.
- Faculty Judge, CMU first round of the [Microsoft Imagine Cup Contest](#). April, 2004.
- Facilities Advisory Committee for the School of Computer Science, 2002-2003.
- Faculty sponsor for CMU's participation in the "ACM Quest for Windows CE Applications" contest, 1999, which won first place in the "Personal Productivity" team category.
- PhD for HCI Students Committee, 1998-1999.
- Steering Committee of the Human-Computer Interaction Institute, 1994-1997.
- Developed the *Guide for New Faculty in the School of Computer Science*, August, 1993 and May, 1994.
- CS Committee on Non-Tenured Reappointments and Promotions, 1993.
- CS Faculty Hiring Committee, 1992-1994.
- CS HCI Faculty Recruitment Coordinator, 1992-1994.
- Member, School of Computer Science Policy Committee, 1992-1996.
- Member, Computing Advisory Committee of the Faculty Senate, 1990-1992.
- Organizer for the 1989-90 Programming Systems Seminar Series.
- Faculty sponsor for CMU's participation in Apple Computer's 1987 "PC of the Year 2000" contest.

Teaching:

Courses

- 05-863/45-888: Introduction to Human Computer Interaction for Technology Executives, Fall, Mini-2, 2017. 75 students.
- 95-763 Z5: Introduction to Human Computer Interaction for Technology Executives, Summer, Mini-5, 2017. (For the Heinz Executive Ed program). 12 students.
- 05-830: Advanced User Interface Software. Spring, 2017. 7 students.
- 05-773A3: Computer Science Perspectives in HCI, (CS Mini), Spring, 2017, Mini 3. 31 students.

- 05-863/08-763/45-888: Introduction to Human Computer Interaction for Technology Executives, Fall, Mini-2, 2016. 73 students.
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2016. 56 students.
- 95-763 Z5: Introduction to Human Computer Interaction for Technology Executives, Summer, Mini-5, 2016. (For the Heinz Executive Ed program). 12 students.
- 05-440/05-640. Interaction Techniques, Spring, 2016. 30 students.
- 05-863/08-763/45-888: Introduction to Human Computer Interaction for Technology Executives, Fall, Mini-2, 2015. 70 students.
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2015. 76 students.
- 95-763 Z5: Introduction to Human Computer Interaction for Technology Executives, Summer, Mini-5, 2015. (For the Heinz Executive Ed program). 11 students
- 05-773A3: Computer Science Perspectives in HCI, (CS Mini), Spring, 2015, Mini 3. 12 students.
- 05-863/08-763/45-888: Introduction to Human Computer Interaction for Technology Executives, Fall, Mini-2, 2014. 72 students
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2014. 78 students
- 95-763 Z5: Introduction to Human Computer Interaction for Technology Executives, Summer, Mini-5, 2014. (For the Heinz Executive Ed program). 17 students.
- 05-899A/05-499A: Interaction Techniques, Spring, 2014. *New Course!* 26 students.
- 05-863/08-763/46-863: Introduction to Human Computer Interaction for Technology Executives, Fall, Mini-2, 2013. 70 students.
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2013. 65 students.
- 95-763 Z5: Introduction to Human Computer Interaction for Technology Executives, Summer, Mini-5, 2013. (For the Heinz Executive Ed program). 14 students.
- 05-773A4: Computer Science Perspectives in HCI. Spring, mini 4, 2013. 14 students.
- 05-830: Advanced User Interface Software. Spring, 2013. 15 students.
- 05-863/08-763/46-863: Introduction to Human Computer Interaction for Technology Executives, Fall, Mini-2, 2012. 60 students.
- 95-763 Z5: Introduction to Human Computer Interaction for Technology Executives, Summer, Mini-5, 2012. (For the Heinz Executive Ed program). 12 students.
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2012. 47 students.
- 05-671: Masters HCI Project, Spring, 2012. 51 students
- 05-863/08-763/46-863: Introduction to Human Computer Interaction for Technology Executives, Fall, Mini-2, 2011. 58 students.
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2011. 48 students.
- 05-899D: Human Aspects of Software Development (HASD), Spring, 2011. 7 students for credit, plus 5 audit.
- 05-863/08-763/46-863: Introduction to Human Computer Interaction for Technology Executives. Fall, Mini 2, 2010. 65 students.
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2010. 47 students.
- 05-671/672: Masters HCI Project. Spring/Summer, 2010. 12/48 units. 50 students.
- 05-863/08-763/46-863: Introduction to Human Computer Interaction for Technology Executives. Fall, Mini 2, 2009. 32 students.
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2009. 24 students.
- 05-830: Advanced User Interface Software. Spring, 2009. 6 students.

- 05-863/08-763/46-863: Introduction to Human Computer Interaction for Technology Executives. Fall, Mini 2, 2008. 59 students.
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2008. 38 students.
- 05-863/08-763/46-863: Introduction to Human Computer Interaction for Technology Executives. Fall, Mini 2, 2007. 39 students.
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2007. 27 students.
- 05-671/672: Masters HCI Project. Spring/Summer, 2007.
- 08-702, 08-703: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2006. 32 students.
- 17-770 / 46-863: Introduction to Human Computer Interaction for Technology Executives. Fall, Mini 1, 2006. 12 students.
- 05-671/672: Masters HCI Project. Spring/Summer, 2006. 29 students.
- 96-766, 96-768: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2005. 28 students.
- 96-766, 96-768, 96-771: Contextual Design, User Interface Design and Testing. For MSIT eBusiness program, Fall, 2004. 40 students.
- 05-830: Advanced User Interface Software, Fall, 2004. 7 students.
- 20-790: Human-Computer Interaction for eCommerce. Summer Session Two, 2004. (Taught for the UTC Flex-Mode distance-ed program) 19 students.
- 20-790: Human-Computer Interaction for eCommerce. Mini-6, Summer Session Two, 2004. 31 students.
- 05-630 / 05-430: Programming Usable Interfaces, Spring, 2004. 18 grad, 18 undergrad students.
- 05-830: Advanced User Interface Software, Spring, 2003. 5 students.
- 96-766: CMU West Campus - Information Technology Masters of eBusiness Technology, Contextual Design, User Interface Design and Testing, Fall, 2002 and Spring 2003. 6 students.
- 20-790: Human-Computer Interaction for eCommerce. Spring, first mini, 2003. 12 students. (Taught for the UTC Flex-Mode distance-ed program)
- 20-790: Human-Computer Interaction for eCommerce. Fall, second mini, 2002. 25 students.
- Human-Computer Interaction in eCommerce. June 26 - August 9, 2002. 34 students.
- 20-790: Human-Computer Interaction for eCommerce. Fall, second mini, 2001. 32 students.
- 05-631 Software Architecture for User Interfaces, Fall, 2001. 13 students.
- Human-Computer Interaction in eCommerce. June 25 - August 10, 2001. 45 students.
- 05-830, Advanced User Interface Software, Spring, 2001. Enrollment: 15 (8 PhD, 4 MS, 3 undergrad)
- 05-830, User Interface Software, Spring, 2000. Enrollment: 8 (5 MS, 1 PhD, 2 undergrad)
- 05-689, Evaluating Usability of Pebbles (Independent Study), Summer, 1999. Enrollment: 4 MS HCII.
- 05-830, User Interface Software, Spring, 1999. Enrollment: 12 (3 MS, 2 PhD, 6 undergrad, 1 staff)
- 05-830, User Interface Software, Spring, 1998. Enrollment: 9 (4 MS, 1 PhD, 3 undergrad, 1 staff)
- 05-830, User Interface Software, Spring, 1997. Enrollment: 14 (5 MS, 5 PhD, 1 undergrad, 1 special)
- 15-621 and 15-499(A), Intro to User Interface Programming, taught with Dan Olsen, Fall, 1996. Enrollment: 20 (10 HCII MS, 10 undergrad).
- HCI2: HCI Software Tools, A one day short course in the Carnegie Mellon Summer School of Computer Science, June, 1996.
- 15-820 (B) Advanced Topics in HCI: User Interface Software, Spring, 1996. Enrollment: 12 (1 undergrad, 4 PhD, 4 MSE, and 3 INI MS).
- 17-698B and 15-499A, Introduction to User Interface Programming, taught with Jim Morris, Fall, 1995. Enrollment: about 15 undergrad, 3 HCII MS.
- 15-820(C) and 15-499(B), Advanced Topics in HCI: User Interface Software. Spring, 1994. Enrollment: about 18 undergrad and 2 MS.
- 15-810A: Topics in User Interface Software, Spring, 1989. Enrollment: about 20, none for credit.

Independent Study

- *Variations in PhotoShop*, Ashley Lai and Tam Minh Le, Summer & Fall, 2014; Ashley Lai, Spring, 2015 through Summer, 2016.
- *Creating an Interactive Tool for InterState*, Sukhada Kulkarni, Spring, 2014
- *Natural Programming with InterState*, Su Baykal, Fall, 2013 and Spring, 2014
- *MSIT Capstone Project*, Shawn Granda, Fall, 2013
- *Slideshow Commander on Blackberry*, Haijie Gu, Fall, 2009.
- *Slideshow Commander on iPhone*, Steven Chou, Fall, 2009.
- *Apatite*, Dan Eisenberg, Fall, 2008, Spring, 2009, Fall, 2009. *Winner, First place in the "Yahoo! Undergraduate Research Awards" competition at Carnegie Mellon University, May 6, 2009, and Honorable Mention for the CRA Outstanding Undergraduate Research Awards 2010.*
- *SAP API Studies*, Yingyu Xie (Clare), Sae Young (Sophie) Jeong, Spring, 2008.
- *Study of Designer's Expressions*, Sunyoung Park, Fall, 2007.
- *US version of Korean Cyworld*, Myung-Joo Ko, Fall, 2004.
- *Pebbles on Nokia Phones*, Ivan Gonzalez, Spring, 2004.
- *TA for 20-790*, Sue Young Chung, Summer, 2004.
- *Creating a Simulator for a General Motors Navigation System*, Pegeen Shen, Fall, 2003.
- *New Features for Pebbles PocketPC*, Yuhua Li, Fall, 2003.
- *Implementing USB in Pebbles*, Dave Kong, Spring, 2002.
- *Evaluating HANDS*, Luis J. Cota, Fall, 2001.
- *Evaluating the Silver Video Editor*, Rishi Bhatnagar, Summer, 2001.
- *Evaluating the use of handhelds for the handicapped*, Sunny Ya-Ting Yang and Brian Yeung, Spring, 2001.
- *Evaluating the Usability of the Hands Language*, Leah Miller, Spring, 2001.
- *Using Laser Pointers in Meetings*, Choon Hong Peck, Fall, 2000 and Spring, 2001.
- *Personal Universal Controller*, Marc Khadpe, Summer, 2000.
- *Design for the Hands Language for Children*, Ruben Carbonell and Joonhwan Lee, Spring, 2000.
- *Evaluating Floor Control for Small Groups with Palms*, Yu Shan Chuang and Marsha Tjandra, Spring, 2000.
- *Evaluation Natural Expression of Algorithms*, Aristiwiwida B. Hardjanto ("IKA"), Spring, 1999.
- *Using the PalmPilot in Meetings*. Herbert Stiel, Fall, 1997, Undergrad CS.
- *Networking in Amulet*. John Huebner, Summer and Fall, 1997, MSE.
- *Interactive Specification of Constraints*. Ilhwan Kwon, Spring and Summer, 1997. Undergrad ECE.
- *The Design of the Atacama Desert Trek Interface*. Jennifer Gutwacks and Clark Slater, Spring, 1997. MS HCI.
- *Natural Programming*. John Chang, Spring, 1997. Undergrad CS.
- *Interface Builder for Amulet*. William Moher, Spring, 1996. Undergrad CS.
- *Interpreting Football Plays Sketched by Demonstration*, Patrick Rogan, Spring, 1996. Undergrad Psychology.
- *Creating Macintosh Games by Example*, Andrew Tepper, Spring, 1989, Undergrad CS.

Students:

PhD Students at CMU

- Xieyang (Michael) Liu
- Jia-Jun (Toby) Li
- Mary Beth Kery
- Michael Coblenz
- Kerry Shih-Ping Chang, PhD HCII, May, 2016. *A Spreadsheet Model for Using Web Services and Creating Data-Driven Applications*. [pdf](#). Currently, IBM.
- [YoungSeok Yoon](#). PhD ISR, May, 2015. *Backtracking Support in Code Editing*. [pdf](#). Currently, Software Engineer at Google.

- [Stephen Oney](#). PhD HCII, May, 2015, *Expressing Interactivity with States and Constraints*. [pdf](#). Currently, Assistant Professor at the School of Information, University of Michigan.
- [Thomas LaToza](#). PhD ISR, May, 2012, *Answering Reachability Questions*. [pdf](#). Currently, Assistant Professor, Department of Computer Science, Volgenau School of Engineering, George Mason University.
- Jeffrey Stylos. PhD CSD, May, 2009, *Making APIs More Usable with Improved API Designs, Documentation and Tools*. [pdf](#). Currently, Software Engineer at IBM.
- [Andrew J. Ko](#). PhD HCII, May, 2008, *Asking and Answering Questions about the Causes of Software Behavior*. [pdf](#). Currently, Associate Professor in the Information School and an Adjunct Assistant Professor, Computer Science & Engineering at University of Washington; and CTO of Qazzow.
- [Jeffrey Nichols](#). PhD HCII, December, 2006, *Automatically Generating High-Quality User Interfaces for Appliances*. [pdf](#). Currently, Research Scientist at Google.
- [Jacob O. Wobbrock](#). PhD HCII, August, 2006, *EdgeWrite: A Versatile Design for Text Entry and Control*. [abstract and pdf](#). Winner, 2007 SCS Dissertation Award. Currently, Associate Professor in the Information School and an Adjunct Associate Professor in Computer Science & Engineering at the University of Washington.
- [Rob Miller](#). PhD CSD, May, 2002, *Lightweight Structure in Text*. [pdf](#). Thesis won SCS Doctoral Dissertation Award for 2002 and ACM Doctoral Dissertation Award Honorable Mention. Currently, Professor of Computer Science at MIT.
- John Pane. PhD CSD, May, 2002. [A Programming System for Children that is Designed for Usability](#). Currently at Rand Corporation.
- Rich McDaniel. PhD CSD, May, 1999, *Building Whole Applications Using Only Demonstration*. Currently at Siemens Corporate Research, Princeton, NJ. [pdf](#)
- [James Landay](#). PhD CSD, Dec. 1996, *Interactive Sketching for the Early Stages of User Interface Design*. Currently, Professor of Computer Science at Stanford University
- [Francesmary Modugno](#). PhD CSD, May, 1995, *Extending End-User Programming in a Visual Shell With Programming by Demonstration and Graphical Language Techniques*. Currently, Associate Professor, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh

Masters Students at CMU

- Michael Coblenz, MS in CS, August, 2006, *JASPER: Facilitating Software Maintenance Activities With Explicit Task Representations*. [Abstract](#), [pdf](#).
- Andrew Faulring, MS in CS, December, 2005.
- Rajesh Seenichamy, MS in INI, August, 2003, *Communicating With X-10 And Vehicle Functions To Enable Two-Way Remote Control*.
- Juan Casares, MS in HCI, May 2002.
- Nobuhisa Yoda, MS in CMU's Information Networking Institute, Dec, 1994: *An Architectural Design of A Toolkit for Synchronous Groupware Applications*.
- David Kosbie. MS CSD.
- Andrew Werth, MS in INI, Oct. 1992, *Tourmaline: Formatting Document Headings by Example*.

BS Thesis Students at CMU

- Sam Gruber, Bachelor of Computer Science and Arts (BCSA) Capstone, 2013-2014. *Construct: Programming with Geometry*.
- Ivan Gonzalez, CSD BS, May, 2006. *Thumb Based Interaction Techniques for Input on a Steering Wheel*
- Michael Coblenz, CSD BS, May, 2005. *Using Objects of Measurement to Detect Spreadsheet Errors*. CMU-CS-05-150, CMU-HCII-05-102. [Abstract](#), [pdf](#).
- Andrew Faulring, CSD BS, May, 1999. *Gold: Charting by Demonstration*
- Chotirat ("Ann") Ratanamahatana, CSD BS, May, 1998. *A Textual Programming Language and Environment for Beginners*
- Rajan Parthasarathy, CSD BS, May, 1994, *Garnette: An Interactive User Interface Tool*.

CMU SCS PhD Thesis committee

- Kelly Rivers (HCII, PhD in progress)
- Joshua Sunshine (ISR PhD, 2014), "Protocol Programmability". [pdf](#)
- Leong Hwee Teo (HCII PhD, 2011), "Modeling Goal-Directed User Exploration in Human-Computer Interaction". [pdf](#)
- Marwan Abi-Antoun (ISR PhD, 2009)
- Uri Dekel (ISR PhD, 2009)
- Chris Scaffidi (ISR PhD, 2009)
- Michael Gleicher (PhD CSD, 1994)
- Dean Rubine (PhD CSD, 1991)
- Tom Lane (PhD CSD, 1990)

External member, Thesis committee

- Dimitar Asenov (PhD in progress, Department of Computer Science, ETH Zurich)
- Varvara Toulkeridou (PhD in progress, Computational Design, School of Architecture, CMU)
- Pedro Miguel Silva Carlos Sousa Ângelo, (PhD in progress, Faculty of Engineering of the University of Porto, Portugal)
- Doug Wightman, (PhD, 2013, School of Computing, Queen's University, Canada)
- Xiang Cao (PhD, 2008, Computer Science, University of Toronto)
- Peter Tandler, (PhD, 2004, Computer Science, Darmstadt University of Technology, Germany)
- Jan Reinhardt, (PhD, 2003, Civil and Environmental Engineering, Carnegie Mellon University)
- Sailesh Panchang, (MS, 2002, Dept. of Rehabilitation Science and Technology, University of Pittsburgh)
- Linda McIver, (PhD, 2001, Computer Science, School of Computer Science and Software Engineering, Monash University, Australia)
- Bernhard Suhm (PhD, 1998, University of Karlsruhe, Germany)
- T. Paul McCartney (PhD, 1996, Washington University in St. Louis, Computer Science Department)
- Martin R. Frank (PhD, 1995, Georgia Institute of Technology, College of Computing).
- David Maulsby (PhD, 1994, University of Calgary, Department of Computer Science)
- David Kurlander (PhD, 1993, Columbia University, Computer Science Department)

Mentoring:

- [Holly Wittman](#), Assistant Professor, Laval University Faculty of Medicine and CHU de Québec, Co-Mentor, 12/15/2014-ongoing (Career Development Award Research Scholar Junior 1 funded by the Fonds de recherche du Québec - Santé)
- [Marcie Lee Nilsen](#), University of Pittsburgh School of Nursing, Claire M. Fagin Postdoctoral Fellow Award and Mayday Fund, Co-Mentor, 7/1/2014-6/30/2016 (Funded by National Hartford Centers of Gerontological Nursing Excellence)
- [Jared Chiarchiaro](#), MD MS, Assistant Professor of Medicine, University of Pittsburgh School of Medicine, KL2 career development scholar, 2014-2016.

Postdocs & Visitors Supervised:

- Florian Kistner, visiting Master's student, TU München in Information Systems, Fall, 2016 - Spring, 2017. Thesis: "Improving Usability of Error Handling with Integrated Support of the Fault Barrier Pattern"
- [André Santos](#), visiting faculty, ISCTE - University Institute of Lisbon, visiting faculty, Spring, 2014
- Christian Doerner, Postdoc ([Humboldt Scholar](#)), 2010-2011.
- A. Chris Long, Postdoc, 2001-2002.
- Prof. Yoshihiro Tsujino, visiting faculty, Department of Information and Computer Sciences, Osaka University, May, 1996 to March, 1997.

- Alex Klimovitski, November, 1994 to April, 1995.
 - Keiji Kojima, Hitachi, October, 1990 to June, 1991.
 - Osamu Hashimoto, NEC Corporation, July, 1990 to August, 1991.
 - [Brad Vander Zanden](#), Postdoc, August, 1988 to July, 1990.
 - Philippe Marchal, 1987 to 1988
-

Invited Presentations:

Keynote Talks:

1. Keynote address, WAPI: 1st International Workshop on API Usage and Evolution (<https://w-api.github.io/>), co-located with the 39th International Conference on Software Engineering (ICSE'2017), Buenos Aires, Argentina, Tuesday, May 23, 2017. "Human-Centered Methods for Improving API Usability". [local pdf](#) and [slides](#) and [Sven Amann's summary of the talk](#).
2. Keynote address, 3rd International Workshop on Programming for Mobile and Touch ([PROMOTO 2015](#)), 27 October 2015, Pittsburgh, PA, Co-located with SPLASH 2015. "Towards More Natural Programming for Mobile and Touch". See [pdf of talk slides](#).
3. Opening Keynote Speaker, KAIST (Korea Advanced Institute of Science and Technology) [Post-CHI 2015 Workshop](#), Daejeon, South Korea, April 24, 2015. "Improving Software Development through Human-Centered Approaches"
4. Opening Keynote Speaker, [British HCI 2013 Conference](#), London, England, Sept 11, 2013. "Improving Software Development through Human-Centered Approaches"
5. Keynote speaker, 21st IEEE International Conference on Program Comprehension ([ICPC'2013](#)), San Francisco, CA, May 20-21, 2013. "Improving Program Comprehension by Answering Questions". See [pdf of talk slides](#).
6. Opening Keynote, [SEIF 2012 Day](#), (annual Software Engineering Innovation Foundation (SEIF) Workshop of Microsoft Research), July 18, 2012, Redmond, Washington. "Improving Software Development through Human-Centered Approaches." See [pdf of talk slides](#).
7. Keynote speaker, Workshop on the Evaluation and Usability of Programming Languages and Tools ([PLATEAU](#)) 2011, with the Onward!2011 and Splash 2011 conferences in Portland, Oregon, October 24, 2011. "Inherent vs. Accidental vs. Intentional Difficulties in Programming". [pdf of slides](#).
8. Keynote speaker, the ACM SIGCHI Symposium on Engineering Interactive Computing Systems ([EICS'2009](#)), Pittsburgh, PA, July 14-17, 2009. "Engineering More Natural Interactive Programming Systems". [pdf of talk slides with references](#)
9. Opening Invited Speaker, IBM Almaden's "New Paradigms for Using Computers" Workshop on The Future of Design and Software Development ([NPUC'2009](#)), July 9, 2009, San Jose, CA, "End-User Design and Development". [video of the talk](#), or [another video of the talk](#)
10. Dinner keynote speaker, [Accel 2008](#), Vocollect's Global Conference on Voice in the Supply Chain. Pittsburgh, PA, April 14-16, 2008. "User Interfaces of the Future"
11. Keynote speaker, AAAI 2007 Spring Symposium on [Interaction Challenges for Intelligent Assistants](#), 26-28 March 2007, Stanford University, CA. "A User Acceptance Equation for Intelligent Assistants". [Abstract](#) and [pdf of PowerPoint slides](#).
12. Invited Research Overview, "End-User Programming". CHI 2006, April 22-27, 2006, Montreal, Canada.
13. Keynote speaker, [Third International Conference On Mobile And Ubiquitous Multimedia](#), MUM2004. October 27 - 29, 2004, College Park, Maryland. "Mobile Devices for Control of Ubiquitous Multimedia".
14. Keynote speaker, [The Seventh ACM SIGPLAN International Conference on Functional Programming](#), ICFP 2002. October 4-6, 2002, in Pittsburgh, PA. "Towards More Natural Functional Programming Languages."
15. Keynote speaker, [The Fourth Symposium on Human-Computer Interaction for Mobile Devices](#), Mobile HCI'02. September (18-20) in Pisa, Italy. "Mobile Devices for Control."

16. Keynote speaker, [IEEE Symposium on Visual Languages](#), VL'2000, Seattle, Washington, September 10-14, 2000. "Creating More Natural Programming Languages."
17. Keynote speaker, 14th Triennial Congress of the International Ergonomics Association, in conjunction with the 44th Annual Meeting of the Human Factors and Ergonomics Society. July 30 - August 4, 2000, San Diego, CA. "Past, Present and Future of User Interface Software Tools"
18. Keynote speaker, DSL'99: 2nd Usenix Conference on Domain Specific Languages, Austin, TX, October 3-6, 1999. "Towards More Natural Domain-Specific Languages."
19. Keynote speaker, ACM Multimedia 97 conference. Nov 11-13, 1997 in Seattle, WA. "Authoring Interactive Behaviors."
20. Keynote speaker, HCI '91: The British Computer Society Specialist Group in HCI Annual Conference, Aug 21, 1991, Edinburgh, UK.
21. Keynote speaker, "Invisible Programming," 1990 IEEE Conference on Visual Languages, Chicago, Ill, October 6, 1990.
22. Keynote speaker, "The State of the Art in Visual Programming and Program Visualization," The British Computer Society Computer Graphics and Displays Group, International State of the Art Symposium on *Graphics Tools for Software Engineering: Visual Programming & Program Visualization*. London, England. March 16, 1988.

Other Talks and Colloquia:

1. HCI Panel. 7th Carnegie Mellon University China-US Summit on Innovation and Entrepreneurship ([CMU Summit](#)), Pittsburgh, PA, April 14, 2018
2. Brad A. Myers, Michael Coblenz, Jonathan Aldrich, Joshua Sunshine. "Types of Studies", [Dagstuhl Seminar 18061](#), Schloss Dagstuhl International Conference And Research Center For Computer Science, Germany. February 4 - 9, 2018. [pdf of slides](#).
3. [CS547](#): Stanford University Human-Computer Interaction Seminar on People, Computers, and Design, 27 October, 2017, Palo Alto, CA. "Human-Centered Methods for Improving API Usability." [Talk announcement](#) and [YouTube video of talk](#).
4. Invited talk, Google, "Update on Research on Improving API Usability", October 26, 2017, Sunnyvale, CA.
5. Invited talk, Yahoo!, "SUGILITE: Creating Multimodal Smartphone Automation by Demonstration", October 25, 2017, Sunnyvale, CA.
6. Invited talk, Amazon, "Human-Centered Methods for Improving API Usability", October 24, 2017, Seattle, WA.
7. Invited talk, Facebook, "Human-Centered Methods for Improving API Usability", October 24, 2017, Seattle, WA.
8. Invited talk, Amazon, "Human-Centered Methods for Improving API Usability", October 24, 2017, Seattle, WA.
9. Speaker, CMU SSSG summer talk, "Programmers are Users Too: Human Centered Methods for Improving Tools for Programming", July 31, 2017. [pdf of slides](#).
10. Invited Workshops, "Studying Best Practices for Improving API Usability," Google API Summit 2017, Los Angeles, CA, June 14, 2017. (Given twice)
11. Invited talk, "Human-Centered Methods for Improving API Usability," Google API Summit 2017, Los Angeles, CA, June 14, 2017.
12. Invited talk, "HCI Aspects Of Development", DARPA ISAT Augmented Developers: Tools for Hybrid Human-Machine Software Engineering Workshop, February 23-24, 2017, Arlington, VA
13. Invited speaker, Department of Computer Science, ETH Zurich, Switzerland, January 30, 2017, "Programmers are Users Too: Human Centered Methods for Improving Tools for Programming"
14. Invited speaker, Pittsburgh Agile Executive Forum, May 2, 2016, Pittsburgh, PA (at Eaton's headquarters), "What is Design Thinking?"
15. Invited speaker, [Midwest UX](#), Pittsburgh, PA, October 3, 2015, "More Easily Programming Interactive Behaviors"

16. Invited attendee, "[Human-Centric Development of Software Tools](#)," Dagstuhl Conference, May 25 – 28, 2015, Dagstuhl Seminar 15222
17. Distinguished Lecture Series, Computer Science Department, University of Toronto, "Improving Software Development through Human-Centered Approaches", Tuesday, Sept 30, 2014, Toronto, Canada. [Talk announcement](#).
18. Invited seminar, University of Waterloo, "Improving Software Development through Human-Centered Approaches", October 1, 2014, Waterloo, Canada.
19. The Technology T32 "Brown Bag" Speakers Series, "General Introduction to HCI and Why It Is Important For Effective Design", September 9, 2013, University of Pittsburgh School of Nursing, Pittsburgh, PA
20. Invited speaker, "Human Centered Approaches Can Improve Programming Languages and Tools", ISAT/DARPA Fostering Adoption of Programming Languages Workshop, February 11-12, 2013, Philadelphia, PA
21. NSERC CREATE ULSS Distinguished Seminar, "Improving Software Development through Human-Centered Approaches", School of Computing, Queen's University, Kingston, Ontario, Canada, January 25, 2013. [pdf of slides](#).
22. CSE Colloquium Speaker, "Improving Software Development through Human-Centered Approaches", Computer Science & Engineering, University of Nebraska–Lincoln, Lincoln, NE, January 10, 2013. [Talk announcement](#) and [pdf of slides](#).
23. Invited speaker, SAP Labs seminar, Palo Alto, CA, July 25, 2012, "Improving SAP's Development Tools and APIs through Human-Centered Approaches"
24. Invited "Lightening Talk" speaker, [SEIF 2012 Day](#), (annual Software Engineering Innovation Foundation (SEIF) Workshop of Microsoft Research), July 18, 2012, Redmond, Washington. "Better Tools for Authoring Interactive Behaviors for the Web"
25. Invited Speaker, [China Symposium on Human Computer Interaction](#), sponsored by ACM SIGCHI China Chapter and Microsoft Research Asia, Beijing, China, June 18-19, 2012, "Programmers are People Too: Applying HCI to Software Developers"
26. Invited speaker, Software Engineering Horizons track of [ICSE 2012](#), the 34th International Conference on Software Engineering, (one of five invited speakers in 2012). Zurich, Switzerland, June 2-9, 2012. "Software Engineers are People Too: Applying Human Centered Approaches to Improve Software Development." See [pdf of slides](#).
27. Google Tech Talk, Pittsburgh, PA, 3/6/2012, "Improving APIs using HCI Techniques".
28. HCII Seminar Series, Carnegie Mellon University, 2/01/12, "HCI and Intellectual Property"
29. Invited speaker, ETH Zurich [Computer Science Colloquium](#), "[Improving the Usability of Programming Languages and Environments](#)," Informatik (Computer Science), Swiss Federal Institute of Technology, Zurich, Switzerland, October 3, 2011.
30. Discussion Group Speaker, "Unraveling the Mystery of Today's Computer Terminology - Terms Like Facebook, Twitter, Texting, WiFi, YouTube, etc.", Rodef Shalom Levy Hall, Pittsburgh, PA, February 11, 2010.
31. Invited speaker, (Given by Jeff Stylos) [3rd Annual SAP Sponsored Academic Research Conference](#), Mountain View, CA, "API Usability for Web Services", August 21, 2009.
32. Special USER Seminar, IBM Almaden Research Labs, "More Natural Programming Through User Studies", San Jose, CA, July 10, 2009.
33. Invited speaker, SAP Labs seminar, Palo Alto, CA, "More Natural Programming Through User Studies", July 8, 2009.
34. Invited speaker, CreativeIT Principal Investigators Meeting and Exhibition, January 15-16, 2009, NSF, Arlington, VA
35. Invited speaker, [DGPis40: Scientific Workshop & 40th Anniversary Reunion](#), University of Toronto, May 28-30, 2008. [video of talk](#) (1hr, 10min)
36. Invited speaker, Fourth Workshop on End-User Software Engineering (WEUSE IV) In conjunction with ICSE 2008, "End-User Tools for Creating Dependable Software", May 12, 2008, Leipzig, Germany

37. CS547: Stanford University Human-Computer Interaction Seminar on People, Computers, and Design, September 28, 2007, Palo Alto, CA. "More Natural Programming Through User Studies". [Talk announcement](#) and [streaming video of the full talk](#) (1hr24min).
38. Google Technical Seminar, "Update on the Natural Programming Project", September 26, 2007, Mountain View, CA. [Google Video \(1 hr\)](#)
39. Invited speaker, with Larry Masinter, at the Adobe Principal Scientist Council Briefing: "Survey: Past and Current Art of Making Programming Easier." San Francisco, CA. June 26, 2007.
40. Invited speaker, [SAP Academic Symposium](#), June 7, 2007, Mountain View, CA, "API Usability"
41. Distinguished Lecture Series, Department of Computer Science, University of Illinois at Urbana-Champaign, "More Natural Programming Through User Studies", April 9, 2007.
42. Invited speaker, SAP Labs seminar, Palo Alto, CA, "More Natural Programming Through User Studies", March 28, 2007.
43. Celebrity Judge, at "[Usability Game Show - Pittsburgh](#)" as part of [World Usability Day](#), November 14, 2006.
44. Colloquium, Brown University Department of Computer Science, "More Natural Programming Through User Studies", November 2, 2006.
45. EUSES Consortium Workshop: End Users Shaping Effective Software, "Report of the CMU Natural Programming Group". Lincoln, Nebraska, October 25-27, 2006 and October 5-7, 2005.
46. Accenture. "More Natural Programming Through User Studies", September 8, 2006. Chicago, IL.
47. Google Technical Seminar, "More Natural Programming Through User Studies", October 27, 2005, Mountain View, CA.
48. Carnegie Mellon West, "Great Product Innovations" Speaker Series, "How the Human Interface Can Make or Break Great Product Innovations," October 27, 2005, Moffet Field, CA.
49. Microsoft Research Faculty Summit 2005, "Visions of Mobile Devices Beyond Their Current Role" in the session on "Enhanced Computing with Mobile Devices". July 19, 2005.
50. "Overview of Computer Science Support for Creativity" (with Randy Pausch) at [NSF Workshop on Creativity Support Tools](#), June 13-14, 2005. Radisson Barcelo Hotel in Washington, DC.
51. Microsoft Research Seminar, June 2, 2005. Redmond, WA. "More Natural Programming Through User Studies".
52. "End Users in End-User Software Engineering: Where HCI Cross Cuts SE", at the 1st Workshop on End-User Software Engineering ([WEUSE 2005](#)) at ICSE 05, Saint Louis, MO, May 21, 2005.
53. "University Relations--Mobile Computing and User Interface Research," at the Microsoft Research Tech Fair, April 27, 2005, Library of Congress, Washington, D.C. ([some pictures with Congressmen](#))
54. EUSES Consortium Workshop: End Users Shaping Effective Software, "Project Marlalade". Pittsburgh, PA September 8-10, 2004.
55. Microsoft Research Seminar, August 4, 2004. Redmond, WA. "Review of Recent Research: Citrine Smart Clipboard, WhyLine Interrogative Debugging, EdgeWrite Text Entry, and Pebbles PocketPC Software".
56. [HCIL Seminar Series](#), University of Maryland, College Park, MD. October 21, 2003. "Mobile Devices for Control."
57. University of New Orleans, LA, September 12, 2003. "Mobile Devices for Control."
58. Microsoft Research Seminar, July 30, 2003. Redmond, WA. "An Update on the Pebbles Project: PocketPCs, Smartphones and TabletPCs for Universal Remote Control and A New Input Method for Small Devices".
59. Microsoft Research Faculty Summit 2003, Innovation Excellence Plenary Session, July 28, 2003, and DemoFest session, July 29, 2003, "Mobility: Handhelds for Universal Remote Control".
60. MIT AI Lab, [HCI Seminar Series](#), May 9, 2003, "[Mobile Devices for Control](#)"
61. Mitsubishi Electric Research Laboratory, May 8, 2003, Cambridge, MA. "Mobile Devices for Control."
62. CS547: Stanford University Human-Computer Interaction Seminar on People, Computers, and Design, November 22, 2002, Palo Alto, CA. "Mobile Devices for Control". [Talk announcement](#) and [streaming video of the full talk](#) (1hr26min). (*Warning: video link crashes Netscape 4.7*)
63. [CMU Tech Bytes](#) Seminar, Sheraton Palo Alto, Palo Alto, CA. Nov. 21, 2002. "Mobile Devices for Control".

64. Invited Speaker, Workshop on [End-User Development](#) of the European Community Network of Excellence. Sept. 23, 2002. Pisa, Italy. "Making Programming Easier by Making it More Natural."
65. Microsoft Research Seminar, July 31, 2002. Redmond, WA. "PocketPCs as Controllers for Computers and Appliances; Update on The Pebbles Project"
66. Invited speaker, InterNational Committee for Information Technology Standards (INCITS) Technical Committee [V2 Meeting](#), June 27, 2002, Minneapolis, MN. "Pebbles PUC Automatic UI Generation Project."
67. Invited speaker, [State University of New York Technical Conference 2002](#). Educational Technology Officers Association. June 17 - 19, 2002. Hudson Valley Resort Convention Center in Kerhonkson, NY. "The Pebbles Project General Overview: Using Hand-Held Computers and PCs Together" and "Using Handhelds to Enhance Classrooms and to Help the Handicapped"
68. Computer Science Colloquium Series, Kent State University, Kent, OH. February 20, 2002. "The Pebbles Project: Using Hand-Held Computers and PCs Together"
69. Guest speaker, [Pittsburgh Pocket PC User Group](#), February 6, 2002. Pittsburgh, PA. "The Pebbles Project: Using Hand-Held Computers and PCs Together"
70. Guest speaker, Ohio State University Dept. of Computer and Info. Science, Columbus, Ohio, August, 7, 2001, "The Pebbles Project: Using Hand-Held Computers and PCs Together."
71. Invited speaker, [Grid on the Go](#), May 20-22, 2001, NCSA, University of Illinois at Urbana-Champaign. "Using Wireless Handheld Devices in the Classroom, Office and Home."
72. Microsoft Research Seminar, April 6, 2000. Redmond, WA. "Update on The Pebbles Project: Using a Handheld as a Personal Universal Controller and to Augment a Laser Pointer in Meetings"
73. HCI Seminar Series, Carnegie Mellon University, 2/07/01, "Using Hand-Held Computers and PCs Together: The Pebbles Project"
74. Symbol Technologies, Inc. lunchtime presentation, August 25, 2000. Pittsburgh, PA. "The Pebbles Project: Using Hand-Held Computers and PCs Together"
75. Microsoft Research Seminar, August 2, 2000. Redmond, WA. "Using Windows CE Computers in Classrooms; and Public-Private Data Sharing Using a PC and PocketPCs; Update on The Pebbles Project"
76. Microsoft Research Seminar, December 7, 1999. Redmond, WA. "Towards More Natural Programming Languages".
77. HCI Seminar Series, Carnegie Mellon University, 11-17-99, "Using Handheld Computers and PCs Together". [YouTube](#) or [download a video \(.asf format\)](#).
78. Computer Science Colloquium, Brown University, Nov. 4, 1999. "Using Hand-Held Computers and PCs Together."
79. Invited speaker, IFIP Working Group 2.7/13.4 (User Interface Engineering), May 13, 1999, Pittsburgh, PA. "The Architectural Issues in Amulet."
80. Invited speaker, Human Computer Interaction Consortium (HCIC'99), Fraser, CO, Feb 3-9, 1999, "Prospects and Visions for User Interface Software Tools."
81. Invited speaker, The Ninth Annual NEC Research Symposium: Human Centric Multimedia Community, Nara, Japan, Aug. 30-Sept. 1, 1998.
82. Boeing Shared Services, Seattle, WA. June 17, 1998, "Amulet: Comprehensive Support for Graphical, Highly-Interactive User Interfaces"
83. Microsoft Research, Redmond, WA. June 15, 1998, "Collaboration Using Multiple PDAs Connected to a PC"
84. Invited speaker, CHI-Squared, The Chicago CHI Local Group, Chicago, IL, June 9, 1998.
85. Colloquium speaker, Lucent Labs, Naperville, IL, June 9, 1998. "Using PalmPilots Synchronously in Meetings."
86. Invited speaker, Human Computer Interaction Consortium (HCIC'98), Fraser, CO, March 4-8, 1998. "Natural Programming for Knowledge Management."
87. Colloquium speaker, IBM Thomas J. Watson Research Center, Hawthorne, NY, February 13, 1998. "Using PalmPilots Synchronously in Meetings."
88. Distinguished Lecture Series, University of Tennessee, Knoxville, TN, Nov. 3, 1997.
89. Colloquium speaker, Electric Boat Division of General Dynamics, Groton, Conn, May 1, 1997.

90. Invited speaker at the AAAI Spring Symposium on "Acquisition, Learning and Demonstration: Automating Tasks for Users", presented overview of "Demonstrational Interfaces." Stanford, CA, March 25-27, 1996.
91. Computer Science Colloquium, Washington University in St. Louis, MO, January 19, 1996.
92. Distinguished Lecture Series, University of Maryland, College Park, MD, February 28, 1995.
93. Invited Speaker, Software Engineering Tools and Techniques Conference, Los Angeles, CA, February 24 1995.
94. Distinguished Lecture Series, University of Toronto, Toronto, Canada, December 6, 1994.
95. Colloquium speaker, Toronto Computer Human Interaction (TORCHI) society, Toronto, Canada, December 5, 1994.
96. Distinguished Lecture Series, University of York, Toronto, Canada, February 11, 1994.
97. ARPA Workshop on HCI Architecture and Toolkits, 11-14 January, 1994, San Diego, CA.
98. Colloquium speaker, Georgia Tech, Atlanta, GA. July 28, 1993.
99. Colloquium speaker, University of Virginia, Charlottesville, VA. February 24, 1992.
100. Invited Speaker, "Workshop on Programming by Example," sponsored by Apple Computer Inc., March 11-12, 1992. Cupertino, CA.
101. Lecturer, "Extending Direct Manipulation: Demonstrational Interfaces and User Interface Development Environments," User Interfaces Strategies'92, A live Satellite TV Broadcast, from the University of Maryland, December 12, 1991.
102. Colloquium speaker, Xerox Palo Alto Research Center, Palo Alto, CA. June 20, 1991.
103. Colloquium speaker, Adobe Systems, Inc., Mountain View, CA. June 20, 1991.
104. Colloquium speaker, Hewlett Packard Software Engineering Systems. Sunnyvale, CA. January 29, 1991.
105. Colloquium speaker, Apple Computer, Inc. Cupertino, CA. January 28, 1991.
106. Colloquium speaker, Waterloo University, Waterloo, Ontario, Canada, November 14, 1990.
107. Colloquium speaker, Lotus Corporation, Cambridge, MA, November 7, 1990.
108. Colloquium speaker, Siemens Corporate Research, Princeton, New Jersey, May 14, 1990.
109. Visiting Distinguished Engineer under the IBM Visiting Scholar Program, Northeastern University, Department of Industrial Engineering and Information Systems, April 19, 1990.
110. Colloquium speaker, University of Toronto, Toronto, Ontario, Canada, August 8, 1989.
111. Colloquium speaker, Boeing Corporation, Seattle, WA, July 17-18, 1989.
112. Colloquium speaker, Microsoft Corporation, Seattle, WA, Dec. 5-6, 1988.
113. Invited speaker, The Toronto Exxperience; A Conference Celebrating Twenty Years of Computer Science Research at the University of Toronto. Toronto, Canada. May 9-13, 1988.
114. Invited speaker, AAAI Workshop on Architectures for Intelligent Interfaces. March 29-April 1, 1988. Monterey, CA.
115. Colloquium speaker, Department of Computer Science, York University, York, England. March 18, 1988.
116. Colloquium speaker, Department of Computer Science, University of Glasgow, Glasgow, Scotland, Great Britain. March 17, 1988.
117. Colloquium speaker, Department of Computer Science, Queen Mary College, London, England. March 17, 1988.
118. Colloquium speaker, Department of Computer Science, Rensselaer Polytechnic Institute, Albany, New York. January 28, 1988.
119. Colloquium speaker, Department of Electrical Engineering and Computer Science, The George Washington University, Washington, D.C. October 14, 1987.
120. Invited speaker, *ACM SIGGRAPH Workshop on Software Tools for User Interface Development*. Seattle, Washington. November 17-19, 1986.
121. Invited speaker, *Alvey MMI Workshop on Window Management*. Abingdon, Oxfordshire, England. April 29-May 1, 1985.

Tutorials:

- "User Interface Tools," tutorial #36 presented at *CHI'94*. Boston, MA. April 24-28, 1994.

- "User Interface Tools," tutorial #27 presented at *INTERCHI'93*. Amsterdam, The Netherlands. April 24-29, 1993.
- "The State of the Art in User Interface Development Environments," tutorial presented at HCI '91: The British Computer Society Specialist Group in HCI Annual Conference, Aug 20, 1991, Edinburgh, UK.
- "Visual Computing Environments," tutorial #23 presented at *SIGCHI '90*. Seattle, WA, April 1-5, 1990.
- "User Interface Design and Implementation," March 26, 1990 at Carnegie Group, Inc., Pittsburgh, PA.
- "Visual Computing Environments," tutorial #17 presented at *SIGGRAPH '89*. Boston, MA, July 31-August 4, 1989.
- "Visual Computing Environments," tutorial #14 presented at *SIGCHI '89*. Austin, Texas, April 30-May 4, 1989.
- "Human-Computer Interaction Technologies and Techniques," tutorial #11 presented at *SIGCHI '88*. Washington, D.C. May 15-19, 1988.
- "Workshop on Visual Programming" at Xerox EuroPARC, supported by Rank Xerox and Apple Computer in association with the British Computer Society Displays and HCI Specialist Groups. Cambridge, England. March 15, 1987.
- "Human-Computer Interaction: Selected Theories, Technologies and Techniques," tutorial #21 at *SIGGRAPH '87*. Anaheim, CA. July 27-31, 1987.

Panels:

- Panelist, "If you had only an hour to teach Software Engineers all the HCI they would ever meet what would it be?", [British HCI 2013 Conference](#), London, England, Sept 12, 2013.
- Panelist, "Studying API Usability for Enterprise Service-Oriented Architectures (eSOA)" in the panel on "Support for the Uptake of User-Developed-Services - Business Versus Community Models", *VL/HCC'2010*, 24 September, 2010, Leganes-Madrid, Spain.
- Invited panelist, "The Role of Interactive Systems in Universal Access," NSF Interactive Systems Grantees Workshop: ISGW '97, August 17-19, 1997, Stevenson, Washington.
- Panelist, "Model-based User Interfaces: What is it and why should I care?" *ACM Symposium on User Interface Software and Technology, UIST'94*, November, 1994. Los Angeles, CA.
- Panelist, "From Research Prototypes to Usable, Useful Systems: Lessons Learned in the Trenches," *ACM Symposium on User Interface Software and Technology, UIST'93*, November 3-5, 1993. Atlanta, GA.
- Organizer and Panelist, "Heuristics in Real User Interfaces," *INTERCHI'93*, Amsterdam, The Netherlands. April 24-29, 1993.
- Organizer and Panelist, "User Interface Design Tools," *1991 Lisp Users and Vendors Conference*, Gaithersburg, MD, Oct 28-Nov 1, 1991.
- Panelist, "HCI: Past and Future," *HCI '91: The British Computer Society Specialist Group in HCI Annual Conference*, Aug 23, 1991, Edinburgh, UK.
- Moderator and Panelist, "Demonstrational Interfaces, Coming Soon?" *SIGCHI'91*, New Orleans, LA. April 28-May 2, 1991.
- Panelist, "Direct Manipulation or Programming: How Should We Design Interfaces?" *ACM Symposium on User Interface Software and Technology, UIST'89*, Williamsburg, VA, Nov. 13-15, 1989.
- Moderator and Panelist, "User Interface Toolkits: Present and Future," *SIGGRAPH '88*, Atlanta, GA, August 1-5, 1988.
- Panelist, "Software Tools for User Interface Management," *SIGGRAPH '87*. Anaheim, CA. July 27-31, 1987.
- Panelist, "The Future of Window Systems," *SIGGRAPH '86*. Dallas, Texas. August 18-22, 1986.
- Panelist, "User Interface Management Systems," *Graphics Interface '84*. Ottawa, Ontario. May 28-June 1, 1984.

Invited Participation in Workshops:

(when not a speaker or organizer)

- Dagstuhl Seminar 17102, "[Rethinking Productivity in Software Engineering](#)", March 5 - 8 , 2017.
- Computing Research Association's Computing Community Consortium (CCC) Workshop on "[Promoting Strategic Research on Inclusive Access to Rich Online Content and Services](#)", September 24-25, 2015, Washington D.C.
- [Microsoft Research Faculty Summit](#), July 8-9, 2015, Redmond, WA
- [Google Faculty Summit](#), July 25-27, 2012, Mountain View, CA
- [Microsoft Research Faculty Summit](#), July 16–17, 2012, Redmond, WA
- [Microsoft Research Faculty Summit](#), July 18-20, 2011, Redmond, WA
- [CCC/CRA Interactive System Architecture Workshop](#), August 11-13, 2010, Jackson Hole, Wyoming
- Second North American [SAP Academic Research Conference](#): Academic Innovation and Enterprise Applications, August 25, 2008, Mountain View, California
- [CHASE 2008](#): Cooperative and Human Aspects of Software Engineering, Workshop at ICSE'2008. Tuesday, 13 May 2008. Leipzig, Germany
- "[Adobe Education Designer and Developer Conference](#)", March 2-4, 2008. San Francisco, CA
- "[2007 Summer Institute on the Human Side of Software Development](#)," co-sponsored by the University of Washington and Microsoft Research. August 12-17, 2007, Skamania Lodge, Stevenson, WA.
- [Microsoft Research Faculty Summit](#), July 16-17, 2007, Redmond, WA
- "NSF Human-Centered Computing (HCC) Workshop", Arlington, Virginia, September 18-19, 2006
- [Microsoft Research Faculty Summit](#), July 16–18, 2006, Redmond, WA
- [Microsoft Research Faculty Summit](#), August 2–3, 2004, Redmond, WA
- "User Interfaces that Span Hand-Held and Fixed Devices," CHI'2001 Workshop on [Distributed and Disappearing User Interfaces in Ubiquitous Computing](#), Seattle, WA, March 31-April 1, 2000.
- "[Future Mobile Device User Interfaces](#)" at CHI'2000, April 1, 2000. The Hague, The Netherlands. Matthias Schneider-Hufschmidt, organizer.
- "Handheld CSCW Workshop at CSCW'98," Seattle, November 14. Hans Gellersen and Albrecht Schmidt, organizers. <http://www.teco.edu/hcscw/>
- "CHI 98 Workshop On Learner-Centered Design," April 20, 1998. Sherry Hsi and Elliot Soloway, organizers.

Discussant:

- "Automated Selection of Remote Control User Interfaces in Pervasive Smart Spaces," by Nirali Desai, Khomkrit Kaowthumrong, John Lebsack, Nishant Shah, Richard Han. Human Computer Interaction Consortium (HCIC'02), Fraser, CO, Jan 30-Feb 3, 2002.
- "The Next Generation of Ubiquitous Computing," by Gregory Abowd and Elizabeth Mynatt. Human Computer Interaction Consortium (HCIC'99), Fraser, CO, Feb 3-9, 1999.
- "Tools and Environments for U.I. Design," SIGCHI'89. Austin, Texas. May 4, 1989.
- "Input," SIGCHI+GI'87. Toronto, Ontario, Canada. April 8, 1987.