Bio

BIO

Professor Winograd's focus is on human-computer interaction design and the design of technologies for development. He directs the teaching programs and HCI research in the Stanford Human-Computer Interaction Group, which recently celebrated its 20th anniversary. He is also a founding faculty member of the Hasso Plattner Institute of Design at Stanford (the "d.school") and on the faculty of the Center on Democracy, Development, and the Rule of Law (CDDRL).

Winograd was a founding member and past president of Computer Professionals for Social Responsibility. He is on a number of journal editorial boards, including Human Computer Interaction, ACM Transactions on Computer Human Interaction, and Informatica. He has advised a number of companies started by his students, including Google. In 2011 he received the ACM SIGCHI Lifetime Research Award.

ACADEMIC APPOINTMENTS

• Emeritus Faculty, Acad Council, Computer Science
• Member, Bio-X
• Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
• Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

• Founder, Hasso Plattner Institute of Design, (2006- present)
• Co-director, Liberation Technology Program, (2009- present)

HONORS AND AWARDS

• Founders Award, Computer Professionals for Social Responsibility (1996)
• Rigo Award, SIGDOC (1999)
• Member, ACM CHI Academy (2004)
• Fellow, ACM (2009)
• Lifetime Research Award, ACM SIGCHI (2011)

PROGRAM AFFILIATIONS

• Symbolic Systems Program

PROFESSIONAL EDUCATION

• PhD, MIT (1970)
LINKS

- Home page: http://hci.stanford.edu/winograd

Publications

PUBLICATIONS

- **SUPERPOWER GLASS** MOBILE COMPUTING AND COMMUNICATIONS REVIEW
  2019; 23 (2): 35–38

- **Effect of Wearable Digital Intervention for Improving Socialization in Children With Autism Spectrum Disorder A Randomized Clinical Trial** JAMA PEDIATRICS
  2019; 173 (5): 446–54

- **Effect of Wearable Digital Intervention for Improving Socialization in Children With Autism Spectrum Disorder: A Randomized Clinical Trial** JAMA pediatrics
  2019

- **Exploratory study examining the at-home feasibility of a wearable tool for social-affective learning in children with autism** NPJ DIGITAL MEDICINE
  2018; 1

- **Exploratory study examining the at-home feasibility of a wearable tool for social-affective learning in children with autism.** NPJ digital medicine
  2018; 1: 32

- **Feasibility Testing of a Wearable Behavioral Aid for Social Learning in Children with Autism** APPLIED CLINICAL INFORMATICS
  2018; 9 (1): 129–40

- **Backtracking Events as Indicators of Usability Problems in Creation-Oriented Applications** ACM TRANSACTIONS ON COMPUTER-HUMAN INTERACTION
  Akers, D., Jeffries, R., Simpson, M., Winograd, T.
  2012; 19 (2)

- **The distance geometry of music** 17th Canadian Conference on Computational Geometry
  ELSEVIER SCIENCE BV.2009: 429–54

- **Undo and Erase Events as Indicators of Usability Problems** 27th Annual CHI Conference on Human Factors in Computing Systems
  Akers, D., Simpson, M., Jeffries, R., Winograd, T.
  ASSOC COMPUTING MACHINERY.2009: 659–668

- **Improving the Accuracy of Gaze Input for Interaction** Eye Tracking Research and Applications Symposium
  Kumar, M., Klingner, J., Puranik, R., Winograd, T., Paepcke, A.
  ASSOC COMPUTING MACHINERY.2008: 65–68

- **Taskpose: Exploring Fluid Boundaries in an Associative Window Visualization** 21st Annual ACM Symposium on User Interface Software and Technology
  Bernstein, M., Shrag, J., Winograd, T.
  ASSOC COMPUTING MACHINERY.2008: 231–234

- **Visual analysis of network flow data with timelines and event plots** 4th International Workshop on Computer Security
  Phan, D., Gerth, J., Lee, M., Paepcke, A., Winograd, T.
  SPRINGER-VERLAG BERLIN.2008: 85–99
• The bodily incorporation of mechanical devices: Ethical and religious issues - (part 2) CAMBRIDGE QUARTERLY OF HEALTHCARE ETHICS
2007; 16 (3): 268-280

• The bodily incorporation of mechanical devices: Ethical and religious issues (part 1) CAMBRIDGE QUARTERLY OF HEALTHCARE ETHICS
2007; 16 (2): 229-239

• Eyepatch: Prototyping Camera-based Interaction through Examples 20th Annual ACM Symposium on User Interface Software and Technology
Maynes-Aminzade, D., Winograd, T., Igarashi, T.
ASSOC COMPUTING MACHINERY.2007: 33–42

• Gaze-enhanced Scrolling Techniques 20th Annual ACM Symposium on User Interface Software and Technology
Kumar, M., Winograd, T.
ASSOC COMPUTING MACHINERY.2007: 213–216

• EyePoint: Practical Pointing and Selection Using Gaze and Keyboard Conference on Human Factors in Computing Systems
Kumar, M., Paepcke, A., Winograd, T.
ASSOC COMPUTING MACHINERY.2007: 421–430

• Shifting viewpoints: Artificial intelligence and human-computer interaction ARTIFICIAL INTELLIGENCE
Winograd, T.
2006; 170 (18): 1256-1258

• Mediating group dynamics through tabletop interface design IEEE COMPUTER GRAPHICS AND APPLICATIONS
2006; 26 (5): 65-73

• Designing a new foundation for design COMMUNICATIONS OF THE ACM
Winograd, T.
2006; 49 (5): 71-73

• TeamSearch: Comparing techniques for co-present collaborative search of digital media 1st IEEE International Workshop on Horizontal Interactive Human-Computer Systems
Morris, M. R., Paepcke, A., Winograd, T.
IEEE COMPUTER SOC.2006: 97–104

• Alternative input devices for efficient navigation of large CT angiography data sets RADIOLOGY
2005; 234 (2): 391-398

• Flow map layout IEEE Symposium on Information Visualization (InfoVis 05)
Phan, D., Xiao, L., Yeh, R., Hanrahan, P., Winograd, T.
IEEE COMPUTER SOC.2005: 219–224

• Interactive workspaces COMPUTER
Johanson, B., Winograd, T., Fox, A.
2003; 36 (4): 99-101

• Efficient web browsing on handheld devices using page and form summarization ACM TRANSACTIONS ON INFORMATION SYSTEMS
Buyukkokten, O., Kaljuvee, O., Garcia-Molina, H., Paepcke, A., Winograd, T.
2002; 20 (1): 82-115

• Extreme temporal photo browsing 2nd International Workshop on Visual Interfaces to Digital Libraries held at the Joint Conference on Digital Libraries (JCDL)
SPRINGER-VERLAG BERLIN.2002: 81–97

• Architectures for context HUMAN-COMPUTER INTERACTION
Winograd, T.
• Integrating information appliances into an interactive workspace IEEE COMPUTER GRAPHICS AND APPLICATIONS
Fox, A., Johanson, B., Hamrahan, P., Winograd, T.
2000; 20 (3): 54-65

• Designing the user interface for multimodal speech and pen-based gesture applications: State-of-the-art systems and future research directions HUMAN-COMPUTER INTERACTION

• Interoperability for digital libraries worldwide COMMUNICATIONS OF THE ACM
Paepcke, A., Chang, C. C., Garcia-Molina, H., Winograd, T.
1998; 41 (4): 33-43

• The digital library integrated task environment (DLITE) 2nd ACM International Conference on Digital Libraries (DL 97)
Cousins, S. B., Paepcke, A., Winograd, T., BIER, E. A., Pier, K.
ASSOC COMPUTING MACHINERY.1997: 142–151

• Interspace and an every-citizen interface to the national information infrastructure More Than Screen Deep Workshop - Toward Every-Citizen Interfaces to the Nations Information Infrastructure
Winograd, T.
NATL ACADEMY PRESS.1997: 260–264

• Using distributed objects for digital library interoperability COMPUTER
Paepcke, A., Cousins, S. B., GARCIAMOLINA, H., Hassan, S. W., Ketchpel, S. P., ROSCHEISEN, M., Winograd, T.
1996; 29 (5): 61-?

• Grassroots: A system providing a uniform framework for communicating, structuring, sharing information, and organizing people 5th International World Wide Web Conference (WWW5)
Kamiya, K., ROSCHEISEN, M., Winograd, T.
ELSEVIER SCIENCE BV.1996: 1157–74

• A communication agreement framework for access/action control 1996 IEEE Symposium on Security and Privacy
ROSHEISEN, M., Winograd, T.
IEEE, COMPUTER SOC PRESS.1996: 154–163

• FROM PROGRAMMING ENVIRONMENTS TO ENVIRONMENTS FOR DESIGNING COMMUNICATIONS OF THE ACM
Winograd, T.
1995; 38 (6): 65-74

• BEYOND BROWSING - SHARED COMMENTS, SOAPS, TRAILS, AND ONLINE COMMUNITIES 3rd International World-Wide Web Conference
ROSHEISEN, M., Mogensen, C., Winograd, T.
ELSEVIER SCIENCE BV.1995: 739–49

• THE NORBERT-WIENER-AWARD FOR SOCIAL AND PROFESSIONAL-RESPONSIBILITY CYBERNETICA
Winograd, T.
1994; 37 (3-4): 387-392

• DESIGNING THE DESIGNER HUMAN-COMPUTER INTERACTION
Winograd, T.
1994; 9 (1): 128-132

• GROUPWARE - SYSTEMS-DESIGN FROM PERSPECTIVE OF GETTING THINGS DONE IEEE SOFTWARE
Winograd, T.
1991; 8 (6): 81-82

• ARE THINKING MACHINES POSSIBLE - ARE WE THEY REVISTA DE OCCIDENTE
Winograd, T.
1991: 113-150
• **CAN RESEARCH REINVENT THE CORPORATION** *HARVARD BUSINESS REVIEW*
  ZUBOFF, S., SUTHERLAND, W. R., WLADAWSKYBERGER, I., SENGE, P. M., ARGYRIS, C., Schon, D. A., Ciborra, C. U., Winograd, T., GUILE, B. R.,
  1991; 69 (2): 164-?

• **ON THE CRUELTY OF REALLY TEACHING COMPUTING SCIENCE** *COMMUNICATIONS OF THE ACM*
  Winograd, T.
  1989; 32 (12): 1412-1413

• **EXPERT SYSTEMS - HOW FAR CAN THEY GO.1.** *AI MAGAZINE*
  Davis, R., Winograd, T., DREYFUSS, S. E.
  1989; 10 (1): 61-67

• **WHERE THE ACTION IS** *BYTE*
  Winograd, T.
  1988; 13 (13): A256-?

• **COMPUTER-SYSTEMS AND THE DESIGN OF ORGANIZATIONAL INTERACTION** *ACM TRANSACTIONS ON OFFICE INFORMATION SYSTEMS*
  Flores, F., Graves, M., HARTFIELD, B., Winograd, T.
  1988; 6 (2): 153-172

• **SPECIAL ISSUE ON THE LANGUAGE ACTION PERSPECTIVE - INTRODUCTION** *ACM TRANSACTIONS ON OFFICE INFORMATION SYSTEMS*
  Winograd, T.
  1988; 6 (2): 83-86

• **ARTIFICIAL-INTELLIGENCE - WHERE ARE WE.2.** *ABACUS-NEW YORK*
  Boden, M., Winograd, et al
  1987; 4 (4): 33-48

• **ARTIFICIAL-INTELLIGENCE - WHERE ARE WE - EXPERTS WHO EXCHANGE VIEWS ON THE FUTURE OF AI FIND THAT CONSENSUS IS DIFFICULT.1.** *ABACUS-NEW YORK*
  McCarthy, J., McCorduck, P., Meltzer, et al
  1987; 4 (3): 8-?

• **MOVING THE SEMANTIC FULCRUM** *LINGUISTICS AND PHILOSOPHY*
  Winograd, T.
  1985; 8 (1): 91-104

• **COMPUTER SOFTWARE FOR WORKING WITH LANGUAGE** *SCIENTIFIC AMERICAN*
  Winograd, T.
  1984; 251 (3): 130-?

• **WHAT DOES IT MEAN TO UNDERSTAND LANGUAGE** *COGNITIVE SCIENCE*
  Winograd, T.
  1980; 4 (3): 209-241

• **EXTENDED INFERENCE MODES IN REASONING BY COMPUTER-SYSTEMS** *ARTIFICIAL INTELLIGENCE*
  Winograd, T.
  1980; 13 (1-2): 5-26

• **BEYOND PROGRAMMING LANGUAGES** *COMMUNICATIONS OF THE ACM*
  Winograd, T.
  1979; 22 (7): 391-401

• **TOWARDS A PROCEDURAL UNDERSTANDING OF SEMANTICS** *REVUE INTERNATIONALE DE PHILOSOPHIE*
  Winograd, T.
  1976; 30 (117-): 260-303