

Vitae

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Honors And Awards	2
Keynote Speeches	2
Research Interests	6
Professional Experience	6
Education	7
Professional Activities (currently)	7
<i>Member of Professional Organizations</i>	7
<i>Offices Held (currently)</i>	7
<i>Member of Advisory Boards</i>	8
Program Committees	8
<i>Chair</i>	8
<i>Member</i>	9
Invited Talks	11
PhD Graduates (CU Boulder)	18
Major Research Grants and Contracts	18
Publications	22
<i>Books</i>	22
<i>Papers</i>	22

Honors And Awards

- 2019 Invited Visiting Professor, University of Hiroshima, Japan (April)
- 2018 Invited Visiting Professor, Technical University Vienna, Austria (October)
- 2015 Honorable Doctorate, University of Gothenburg, Sweden
- 2014-2015 Invited Fellow, Hanse-Wissenschaftskolleg (HWK), Delmenhorst, Germany (April-June 2014 and April-June 2015)
- 2012-2013 Chair of Excellence, University Carlos III, Madrid, Spain (September – December 2012 and September – December 2013)
- 2012 Recipient of the RIGO Award, ACM Special Interest Group on the Design of Communication (SIGDOC)
- 2010 Elected as Fellow of the Association of Computing Machinery (ACM)
- 2009-2010 Faculty Fellowship, Council on Research and Creative Work, CU-Boulder
- 2007 Elected as Member of CHI Academy
- 2002-2003 Invited Visiting Professor, University of Christchurch, New Zealand (12 months)
- 2000 Erskine Fellowship, University of Canterbury, Christchurch, New Zealand (3 months)
- 1995 Exemplary Research Award for Best Technology Transfer Grant, Colorado Advanced Software Institute, October
- 1994-1995 SEL Stiftungsprofessur, Technical University, Darmstadt, Germany (12 months)
- 1994 Invited Fellow by the Japanese Government, Nara Institute of Science and Technology, October
- 1993 Boulder Faculty Assembly's Excellence Award, CU-Boulder
- 1989-1990 Faculty Fellowship, Council on Research and Creative Work, CU-Boulder
- 1982 "Habilitation"-Scholarship, Deutsche Forschungsgemeinschaft, Carnegie Mellon University, Pittsburgh, PA
- 1979 Prize of the "Friends of the University of Stuttgart" for an outstanding research paper
- 1977-1978 Postdoctoral Fellowship, German Academic Exchange Service, MIT, Cambridge, MA
- 1972-1973 Scholarship, German Academic Exchange Service, Univ. of California, Irvine, CA
- 1971-1972 Scholarship, German Academic Exchange Service, Univ. of British Columbia, Vancouver, Canada

Keynote Speeches

2019:

- *"The Future of Digitalization — Design Trade-offs between Artificial Intelligence (AI) and Human-Centered Design (HCD)"*, AiTech Symposium, TU Delft, September 26, 2019
- *"Making Learning a Part of Life"*, Symposium "Rethinking and Reinventing Learning, Education, and Collaboration in the Digital Age — From Creating Technologies to Transforming Cultures", Gävle, Sweden, September 19, 2019
- *"Grundlegende Innovationen für Lernen in der Digitalen Welt der Zukunft"*, Ideenlabor "Digitalisierung an Schulen", 25. Juni, 2019, Bochum

- *The Future of Digitalization — Design Trade-offs between Artificial Intelligence (AI) and Human-Centered Design (HCD)*", De Montfort University, Leicester, England, May 17, 2019
 - *"The Future of Digitalization — Design Trade-offs between Artificial Intelligence (AI) and Human-Centered Design (HCD)"*, Wirtschafts-Informatik Conference "Human Practice, Digital Ecologies, Our Future", Siegen, February 2019
- 2018:**
- *"Envisioning and Grounding Designs for 'Eye Glasses for the Mind' in Data Driven Approaches"*, International Symposium and Adaptive Aids for Active Adults at all Ages (LA9), Kyushu University, Fukuoka, Japan, March 2018
 - *"Beyond Hype and Underestimation: Identifying Challenges and Design Trade-Offs for the Future of Learning Analytics Research"*, International Symposium on Learning Analytics, Kyoto University, Kyoto, Japan, March 2018
 - *"Cultures of Participation"*, Student Creative Arts and Research Symposium, Texas Woman's University (TWU), Denton, TX, April 2018
- 2017:**
- *"Grand Challenges for Quality of Life-based Design Strategies"*, Symposium "Design Trade-Offs for Quality of Life", Schloss Herrenhausen, Hannover, German, October 2017
 - *"Envisioning and Grounding New Educational Designs in Data Driven Approaches"*, Conference "EC-TEL 2017: Twelfth European Conference on Technology Enhanced Learning", Tallinn, Estonia, September 2017
- 2015:**
- *"MOOCs and Learning in the Digital Age"*, Conference "MOOCs in Scandinavia", Stockholm, June 2015
 - *"Crowd Learning: Frameworks, Challenges, and Design Trade-Offs"*, Workshop "Designing Futures for Learning in the Crowd: New Challenges and Opportunities for CSCL", Gothenburg, June, 2015
- 2014:**
- *"Massive, Open, Online Courses (MOOCs) — a Perspective from the Learning Sciences"*, International Symposium "Designing Future Learning Environments, Kyusyu University, Fukuoka, Japan, March 2014
- 2013**
- *"From Renaissance Scholars to Renaissance Communities: Learning and Education in the 21st Century"*, International Conference on "Collaboration Technologies and Systems (CTS'2013)", San Diego May 2013
- 2012:**
- *"Meta-Design and Cultures of Participation: Transformative Frameworks for the Design of Communication"*, Conference of the Association for Computing Machinery Special Interest Group on the Design of Communication (ACM SIGDOC), Seattle, October
 - *"Co-Evolution of Learning, New Media, and New Learning Organizations"*, IADIS International Conference "e-Learning 2012", Lisbon, Portugal, July
 - *"Domain-Oriented Design and Meta-Design: Perspectives for User-Driven Software Development"*, Workshop: EUD4Services 2012, AVI Conference, Capri, Italy, May
- 2011:**
- *"Cultures of Participation and Meta-Design"*, OzCHI 2011 "Design, Culture and Interaction", Australian National University, Canberra, Australia, November,
 - *"Social Creativity: Exploiting the Power of Cultures of Participation"*, SKG2011: 7th International Conference on Semantics, Knowledge and Grids, Beijing, China, October
 - *"Cultures of Participation: Foundations for the Next Generation of Collaborative Systems"*, SBSC'2011: VIII Brazilian Conference on Collaborative Systems and Groupware, Paraty, Brazil, October
 - *"Meta-Design and Social Creativity: Foundations for Cultures of Participation"*, IML 2011: Interactive Media and Learning Symposium "Creative Learning Cultures – Educational Innovations in a Web 2.0 World, Umeå University, Sweden, September

- *"Design Trade-Offs between Control and Support: Exploring and Supporting Multiple Learning Strategies with Innovative Technologies"*, Intermedia Symposium "Scaffolding Critical Reflection in Virtual Learning Environments for Problem Based Learning", University of Oslo, Norway, March
 - *"Grand Challenge Problems and Opportunities for Cognitive Informatics"*, Symposium "Defining Cognitive Informatics", University of Vienna, Austria, January
- 2010:**
- *"Challenges and Conceptual Frameworks for CSCL at Work"*, Workshop on "Computer Supported Collaborative Learning at Work: CSCL at Work", GROUP '10 Conference, Sanibel, Florida, November
- 2009:**
- *"Beyond Gift-Wrapping: Technology-Enhanced Learning in the 21st Century"*, STELLAR 2009 Alpine Rendez-Vous Symposium, Garmisch-Partenkirchen, Germany, December
 - *"Cultures of Participation and Social Computing: Rethinking and Reinventing Learning and Education"*, 9th IEEE International Conference on Advanced Learning Technologies, Riga, Latvia, July
 - *"Cultures of Participation: Opportunities and Challenges for the Future of Digital Libraries"*, JCDL'2009: Joint Conference on Digital Libraries, University of Texas, Austin, TX, June
 - *"End-User Development and Meta-Design: Foundations for Cultures of Participation"*, EUD'09: Second International Symposium on End User Development, Siegen, Germany, March
- 2008:**
- *"Cognition, Learning, and Creativity: Extending the Power of the Unaided, Individual Human Mind"*, EU-ICT Conference "Human Learning and Creativity: Creatively Learning and Learning to Be Creative", November, Lyon, France
 - *"Building Bridges and Fostering Communities in Cultures of Participations"*, NordiCHI2008 International Conference, Lund, Sweden, October
 - *"Challenges and Opportunities for Distributed Participatory Design"*, Workshop "Distributed Participatory Design", CHI 2008, April, Florence, Italy
- 2007:**
- Google, Boulder Engineering Open House, November
 - 19th International Engineering Management Conference Austin, Texas, July
 - Computer Supported Collaborative Learning Conference (CSCL 2007), Rutgers University, July
- 2006:**
- International Computer Symposium (ICS 2006): "HCI Themes for the Future — Distributed Intelligence, Meta-Design, and Social Creativity", Taipei, Taiwan, December 4, 2006
 - Interagency Committee on Disability Research / Subcommittee on Technology State of the Art Conference, Washington, DC, June 29-30, 2006
 - International Conference "Advanced Visual Interfaces (AVI)", Venice, Italy, May 23-26, 2006
- 2005:**
- International Workshop on Wireless and Mobile Technologies in Education (WMTE 2005), University of Tokushima, Japan, November 28-30, 2005
 - The First International Conference "Creativity: A Multifaceted View" Moscow, September 15-18, 2005
- 2004:**
- OZCHI 2004, University of Wollongong, Australia — "Distances in Design Communities: Sources of Social Creativity", November 2004
 - 5th International Symposium on Knowledge and Systems Sciences; Japan Advanced Institute of Science and Technology (JAIST) Forum, November 2004
 - International Workshop Series on RFID "Information Sharing and Privacy", Tokyo, Japan, November, 2004
 - 35 Anniversary Symposium of the University of Monterrey, México — "Meta-Design: A Framework for Software Design of the Future", October 21, 2004

- International Conference on Cognitive Styles of Communication Across Languages and Culture”, Crimea, September, 2004
- 2003:**
- International Workshop on Community-Driven Evolution of Knowledge Artifacts, University of California, Irvine, December
 - End-User Development Symposium, EU Center of Excellence Network, Bonn, Germany
 - ECSCW: European Conference on Computer Supported Cooperative Work, Helsinki, Finland, September
 - I-KNOW '03: 3rd International Conference on Knowledge Management, July, Graz, Austria
- 2002:**
- University of Canterbury, Christchurch, New Zealand, Science Prestige Lecture: “Distributed Cognition – Why Anatomy does not have to be Destiny”, October 23, 2002
 - Research Center for Advanced Science and Technology, University of Tokyo, Japan: “Knowledge Management – Problems, Promises, Realities and Challenges”, October 10, 2002
 - Institute for Software Research, University of California, Irvine: “Social Creativity and Meta-Design in Lifelong Learning Communities”, October 4, 2002
 - Information Sciences and Technology School, Penn State University: “Social Creativity and Meta-Design in Lifelong Learning Communities”, February 22, 2002
- 2001:**
- ISFST2001: International Symposium on Future Software Technology 2001, November, 5-7, 2001, ZhengZhou, Henan Province, China
 - IRIS (24th annual Information Systems Research Seminar In Scandinavia), Ulvik, Hardanger Fjord, Norway, August 11-14, 2001
- 2000:**
- OZCHI 2000: Conference on Human-Computer Interaction “Interfacing Reality in the New Millennium”, Sydney, Australia, 4-8 December 2000
 - COOP'2000: Fourth International Conference on the Design of Cooperative Systems, Sophia Antipolis, France, May 23-26, 2000
 - TEND'2000: International Conference on Technological Education and National Development, Abu Dhabi, United Arab Emirates
- 1999:**
- UM99 (User Modeling) Conference , “User Modeling: The Long and Winding Road”, Banff, Canada, June
 - ICCE 99, 7th International Conference on Computers in Education on “New Human Abilities for the Networked Society”, Lifelong Learning: Changing Mindsets”, Chiba, Japan, November
- 1998:**
- International ‘bauhaus der kommunikation’ Workshop 1998, Paderborn, Germany, June
 - 3rd Asia Pacific Computer Human Interaction Conference, IEEE Computer Society, Japan, July
 - ACM Japan Annual Meeting, “Lifelong Learning—New Challenges and Opportunities for Computer Science”, Japan, July
 - International Workshop “Shared Understanding and its Construction”, University of Nara, Japan, July
 - International Symposium Artificial Intelligence in Structural Engineering, July
- 1997:**
- International Conference “Informatik im Sport”, Cologne, Germany, June
 - International Conference on Computers in Education, University of Sarawak, Kuching, Malaysia, December
- 1996:**
- IFIP WG 8.1/13.2, Joint Working Conference on Domain Knowledge for Interactive System Design, Geneva, Switzerland, May

- European Symposium on Human and Machine Learning, October, Brussels, Belgium
 - 5th Urban Systemic Initiative, NSF, Washington DC, December
- 1995:**
- International AI Symposium 95, Nagoya, Japan, November
 - Brazilian Symposium on Artificial Intelligence (SBIA), Campinas, Brasil, October
 - 22nd Römerberggespräche, Frankfurt, Germany, June
 - Software-Ergonomie'95, Darmstadt, Germany, February
- 1994:**
- East-West International Conference (EW-ED'94), Computer Technologies in Education, Crimea, Ukraine, September
- 1993:**
- Human-Computer Interaction Conference (HCI'93), Loughborough, England, September
 - Creativity & Cognition Symposium, Loughborough, England, April
- 1992:**
- 7th Knowledge-Based Software Engineering (KBSE-92) Conference, Mclean, VA, September
- 1990:**
- 10th Symposium on Human-Computer Communication, Koenigswinter, Germany, November
 - Software Symposium'90, Kyoto, Japan, June

Research Interests

- **Human-Computer Interaction**
cultures of participation; social creativity; meta-design; human problem-domain communication; context-aware systems; useful and usable systems; convivial systems; table-top computing environments
- **Learning Sciences**
lifelong learning; self-directed learning; collaborative learning; organizational learning; technology-enhanced learning; massive, open, online courses (MOOCs); learning on demand; motivation;
- **Design**
domain-oriented design environments; universal design; design-for-all; distributed cognition; integration of problem framing and problem solving; reflection-in-action; breakdowns; design memories; organizational memories; socio-technical environments for the disabled
- **Cognitive Science**
learning environments; mental models; design principles for comprehensible systems; human-centered design
- **Artificial Intelligence**
knowledge-based systems; intelligent support systems (e.g. critics; advisors; coaches); AI and Education; personal intelligent information environments; user modeling; collaborative problem solving systems

Professional Experience

1994-present	Director, Center for LifeLong Learning & Design (L ³ D), CU-Boulder
2012-present	Professor Adjunct, Computer Science Department, CU-Boulder
2012-present	Professor Emeritus, Computer Science Department, CU-Boulder
2006-present	Fellow, Institute of Alliance for Technology, Learning and Society (ATLAS), CU-Boulder
1984- present	Fellow, Institute of Cognitive Science, CU-Boulder
1988-2012	Full Professor, Computer Science Department, CU-Boulder

1994-1995	SEL Stiftungsprofessur, Technical University, Darmstadt, Germany
1984-1988	Associate Professor (with tenure), Computer Science Department, CU-Boulder Member of the Institute of Cognitive Science, CU-Boulder
1982-1984	Associate Professor, Computer Science Department, University of Stuttgart, Germany
1982	Research Associate, Psychology and Computer Science Department, Carnegie Mellon University, Pittsburgh, PA (Feb – May)
1978-1982	Assistant Professor, Computer Science Department, University of Stuttgart, Germany
1978	Visiting Research Scientist, Xerox Palo Alto Research Center (Feb – April)
1977-1978	Research Associate, Artificial Intelligence Laboratory, MIT, Cambridge, MA
1974-1977	Research Associate, Center for Educational Technology, Darmstadt, Germany

Education

1971	Masters in Mathematics	Dept. of Mathematics, University of Heidelberg, Germany
1977	Ph.D. in Computer Science	Dept. of Computer Science, University of Hamburg, Germany

Ph.D. Thesis:

“Das Lösen komplexer Problemaufgaben durch naive Benutzer mit Hilfe des interaktiven Programmierens”, Research Group CUU, Project PROKOP, Darmstadt

primary advisor: Klaus Brunnstein, University of Hamburg, Germany

1982	Habilitation in Computer Science	Dept. of Computer Science, University of Stuttgart, Germany
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Habilitation Thesis:

“Mensch-Maschine Kommunikation: Theorien und Systeme”, Department of Computer Science, University of Stuttgart. (Remark: The “Habilitation” is a special German university degree, which is required of full professors in the German university system.)

primary advisor: Herbert Simon, Carnegie Mellon University, Pittsburgh

Professional Activities (currently)

Member of Professional Organizations

- ACM (Association for Computing Machinery)
- CPSR (Computer Professionals for Social Responsibility)
- Learning Science Society

Offices Held (currently)

- Editorial Board, International Journal of “Interactive Technology and Smart Education”, Troubador Publishing, England
- Editorial Board, Journal of “Universal Computer Science (J.UCS)”, University of Graz, Austria
- Editorial Board, International Journal “Universal Access in the Information Society”, Springer Verlag, Heidelberg, Germany
- Editorial Board, Book Series “Computer-Supported Collaborative Learning”, Kluwer Academic Publishers, Dordrecht, Netherlands

- Editorial Board, International Journal “Knowledge-Based Systems”, Butterworth-Heinemann, Oxford, UK
- Editorial Board, International Journal “Automated Software Engineering”, Kluwer Academic Publishers, Dordrecht, Netherlands
- Editorial Board, International Journal of “Design Computing” (fully electronic multimedia journal), Key Centre of Design Computing, University of Sydney, Australia

Member of Advisory Boards

Current:

- University of Siegen, Germany
- Bonn-Aachen International Center for Information Technology (B-IT), Bonn, Germany
- Munich Center of the Learning Sciences (MCLS), LMU University, Munich Germany
- International Journal "User Modeling and User-Adapted Interaction", Kluwer Academic Publishers, Dordrecht, Netherlands

Previously:

- Fraunhofer Institute FIT Institute for Applied Information Technology, Sankt Augustin/ Bonn, Germany
- Wissenschaftscampus “Bildung in Informationsumwelten”, University of Tübingen, Germany
- Science of Learning Center “The Center for LIFE: Learning in Informal and Formal Environments”, University of Washington, Stanford University, and SRI International
- EU Network of Excellence: “STELLAR: Technology Enhanced Learning”
- EU Project “APOSLE: Advanced Process-Oriented Self-Directed Learning Environment”
- Viewpoints Research Institute, Glendale, California (president: Alan Kay)
- Alliance for Technology, Learning, and Society (ATLAS), University of Colorado, Boulder
- School of Art and Communication, University of Malmö, Sweden
- Research Initiative “Multi-Lifespan Information System Design”, University of Washington, Seattle
- NSF CDI Project “Preparing the Next Generation of Computational Thinkers: Transforming Learning and Education Through Cooperation in Decentralized Networks”, MIT Media Lab
- International Conference Series “AI in Design”

Program Committees

Chair

- 2019:** Symposium “Rethinking and Reinventing Learning, Education, and Collaboration in the Digital Age — From Creating Technologies to Transforming Cultures”, September 17-20, Gävle, Sweden
- 2017:** Symposium “Design Trade-Offs for Quality of Life — Exploring Grand Challenges for the Digital Age”, October 18-20, 2017, Schloss Herrenhausen, Hannover, Germany (supported by the VW Foundation)
- 2011:** IS-EUD 2011: Third International Symposium on End-User Development, June 2011, Bari, Italy, Conference Co-Chair
- 2007:** C&C’2007: Creativity and Cognition, 6th Creativity & Cognition Conference, Washington, DC, June 2007, Co-Chair of Technical Program
- 2002:** CSCL’2002: Computer-Supported Collaborative Learning, Boulder, CO, January
- 1991:** AAAI-91: User Interface Research Area, Anaheim, CA, July
- 1990:** AAAI-90: Spring Symposium on Knowledge-Based Human-Computer Communication, Stanford, CA, March

Member

2012:

- Workshop CDCH2012: “Creative Design for Interdisciplinary Projects in Cultural Heritage”, VL/HCC September 30, 2012, Innsbruck, Austria
- CollabTech 2012: International Advisory Board, Sixth International Conference on Collaboration Technologies, Sapporo, Hokkaido, Japan, August 27-29, 2012
- Workshop “Designing Collaborative Interactive Spaces for e-Creativity, e-Science and e-Learning”, , AVI Conference, Capri, Italy, May

2011:

- OzCHI 2011 “Design, Culture and Interaction”, November 28 to December 2, Australian National University, Canberra, Australia
- 9th International Conference on Computer Supported Collaborative Learning, CSCL2011: Connecting computer supported collaborative learning to policy and practice, July 4-8, 2011, The University of Hong Kong, Hong Kong, China

2010:

- DCC'10 - Fourth International Conference on Design Computing and Cognition, Stuttgart, Germany

2009:

- C&T 2009: 4th International Conference on Communities and Technologies, The Pennsylvania State University, June 25-27, 2009
- GROUP 2009: Sanibel Island, Florida, USA, May 10 - 13, 2009
- Second International Symposium on End User Development, Siegen, Germany, March 2 - 4, 2009
- International Workshop on Open Design Spaces supporting User Innovation (ODS '09) Siegen, Germany, March 2, 2009

2008:

- COOP'08: 8th International Conference on the Design of Cooperative Systems, Carry-le-Rouet, Provence, France May 20-23, 2008
- Vice-Chair, Third International Conference on Design Computing and Cognition (DCC'08): “Bringing artificial intelligence, cognitive science and computational theories to design research”, Georgia Institute of Technology, Atlanta GA 23–25 June 2008
- NordiCHI2008: Using Bridges, Lund, Sweden, 20-22 October

2007:

- ACM Group 2007 Conference, Sanibel Island, Florida, November 4 - 7th, 2007
- Universal Access in Human-Computer Interaction Program Board of HCI International, July 2007
- Third International Conference on Communities and Technologies, Michigan State University, June 28-30, 2007
- International Joint Conference on Knowledge Science (8th International Symposium on Knowledge and Systems Sciences (KSS2007) jointly with the 2nd International Conference on Knowledge, Information and Creativity Support Systems (KICSS2007), Ishikawa prefecture, Japan

2006:

- NordiChi 2006, Oct 14-18, Oslo, Norway
- COOP'2006: International conference on the design of cooperative systems, France, Provence, May 9-12, 2006
- DIS'2006: Design of Interactive Systems, Penn State, June 20-28, 2006

- Second International Conference on Design Computing and Cognition (DCC'06) July 2006, Eindhoven, Netherlands

2005:

- International Conference on Computational and Cognitive Models of Creative Design (HI'05) 10-14 December 2005, Heron Island, Great Barrier Reef, Australia
- International Workshop on Wireless and Mobile Technologies in Education (WMTE 2005), University of Tokushima, Japan, November 28-30, 2005
- "Critical Computing - between Sense and Sensibility" The Fourth Decennial Aarhus Conference, Aarhus, Denmark, 21-25 August 2005
- 12th International Conference on Artificial Intelligence in Education, Amsterdam, Netherlands, July 18-22, 2005.
- UM 2005: User Modeling Conference, Edinburgh, UK, 24 -30 July, 2005
- 3rd Universal Access in Human-Computer Interaction Conference (UAHCI 2005) in cooperation with HCI International 2005, 11th International Conference on Human-Computer Interaction, Las Vegas, 22-27 July 2005
- 4th International Conference for Interaction Design and Children, Boulder, CO, June 8-10, 2005
- 5th Creativity & Cognition Conference, Goldsmiths College, London 12-15 April 2005

2004:

- 6th International Roundtable Conference on Computational and Cognitive Models of Creative Design (HI'04) 1-5 December 2004, Heron Island, Great Barrier Reef, Australia
- ICCE'2004: International Conference on Computers in Education 2004, November 30th to December 3rd, 2004, Melbourne
- ICALT'2004: 4th IEEE Conference on Advanced Learning Systems, Aug 30-Sept 1, 2004, Joensuu, Finland
- PDC'2004: 8th Participatory Design Conference, July 27-31, Toronto, Canada
- 6th International Conference on the Design of Cooperative Systems (COOP'2004), 11-14 May 2004, Nice, France,

2003:

- International Conference on Computers In Education (ICCE'2003), Hongkong, December
- International Symposium "Communities and Technologies", Amsterdam, September
- IKnow'03: International Conference on Knowledge Management, Graz, Austria, June
- HCI International 2003, 10th International Conference on Human-Computer Interaction, Crete, Greece, June 22-27, 2003

2002:

- International Conference on Computers In Education (ICCE'2002), Auckland, New Zealand, 3-6 December
- 4th International Conference on Creativity and Cognition (C&C'2002), Loughborough, England, 14-16 October
- WMTE 2002, IEEE International Workshop on Wireless and Mobile Technologies in Education, Växjö, Sweden, August 2002
- International Conference on Designing Interactive Systems (DIS'2002), London, England, 26 -29 June
- 5th International Conference on the Design of Cooperative Systems (COOP'2002), Saint Raphaël, France, 4- 6 June

2001:

- ESCL'2001: European Computer-Supported Collaborative Learning Conference, March 2001 Maastricht, Netherlands
- Fifth International Conference on Computational and Cognitive Models of Creative Design (HI'01), 9-13 December 2001, Heron Island, Queensland, Australia
- IEEE International Conference on Advanced Learning Technologies (ICALT 2001), 6-8 August 2001, Madison, USA
- 8th International Conference on User Modeling (UM01), July 13 to July 17, 2001, Sonthofen, Bavaria. Germany

Invited Talks

2019

- Fischer, G.: "The Future of Digitalization — Design Trade-offs between Artificial Intelligence (AI) and Human-Centered Design", University of Sydney, Australia, December 20
- Fischer, G.: "Exploring Design Trade-Offs for Envisioning Different Futures of the Digital Age", Uber Research Labs, Louisville, CO, June 10
- Fischer, G.: "The Future of Digitalization — Design Trade-offs between Artificial Intelligence (AI) and Human-Centered Design (HCD)", University of York (England), May 15
- Fischer, G.: "Cultures of Participation and Meta-Design", University of York (England), May 14
- Fischer, G.: "The Future of Digitalization — Design Trade-offs between Artificial Intelligence (AI) and Human-Centered Design (HCD)", Information Science Department, CU Boulder, May 1, 2019
- Fischer, G.: "The Future of Digitalization — Design Trade-offs between Artificial Intelligence and Human-Centered Design", University of Hiroshima (Japan), April 13
- Fischer, G.: "Cultures of Participation and Meta-Design", University of Hiroshima (Japan), April 12
- Fischer, G.: "Envisioning and Grounding New Educational Designs in Data Driven Approaches", University of Hiroshima (Japan), April 11
- Fischer, G.: "Exploring Design Trade-Offs for Quality of Life in Human-Centered Design", University of Hiroshima (Japan), April 10
- Fischer, G.: "Identifying Challenges and Design Trade-Offs for the Future of Learning Analytics Research", CURFA, CU Boulder, March 19, 2019
- Fischer, G.: "The Future of Digitalization — Design Trade-offs between Artificial Intelligence (AI) and Human-Centered Design (HCD)", Autonomous Intelligent Driving (AID) GmbH, Munich (Germany), February 21, 2019

2018:

- Fischer, G.: "Human-Centered Design — From Creating Technologies to Transforming Cultures", Workshop „WCT meets HCI“, University of Tübingen (Germany), November 15
- Fischer, G.: "Exploring Design Trade-Offs for Quality of Life in Human-Centered Design", University of Gothenburg (Sweden), November 7
- Fischer, G.: "Fundamental Conceptualizations and Challenges for Learning and IT", Course "Foundations of Research of Information Technology in Education", University of Gothenburg (Sweden), November 6
- Fischer, G.: "Exploring Design Trade-Offs for Quality of Life in Human-Centered Design", Centre for Informatics and Society, Technical University Vienna (Austria), October 22
- Fischer, G.: "Exploring Design Trade-Offs for Quality of Life in Human-Centered Design", LMU Doctoral Consortium, Venice International University (Italy), September 24
- Fischer, G.: "Exploring Design Trade-Offs for Quality of Life in Human-Centered Design", Université Paris Sud (France), June 26
- Fischer, G.: "Design Trade-Offs for Quality of Life (QoL): Personalization vs. Serendipity and Prescriptiveness vs. Permissiveness in Human Centered Design", Center for Faculty Excellence, Texas Woman's University (TWU), Denton, TX, April 16

- Fischer, G.: "Beyond Hype and Underestimation: Identifying Challenges and Design Trade-Offs for the Future of Learning Analytics Research", Symposium "Learning Analytics", Kyoto University (Japan), March 22
- Fischer, G.: "Envisioning and Grounding Designs for 'Eye Glasses for the Mind' in Data Driven Approaches", International Workshop on "Learning Analytics and Adaptive Aids for Active Adults for All Ages (LA³)", Kyushu University, Fukuoka (Japan) , March 15
- Fischer, G.: "Design Trade-offs for Quality of Life: A Transformative Framework for Human-Centered Design", BMW Research, Munich, February, 23
- Fischer, G.: "Envisioning and grounding new educational designs in data driven approaches", Ludwig-Maximilians-Universität (LMU) Munich, February 21

2017:

- Fischer, G.: "Exploring Design Trade-Offs for Quality of Life in Human-Centered Design", University of Oulu, Finland, October 30, 2017
- Fischer, G.: "Exploring Design Trade-Offs for Quality of Life in Human-Centered Design", Center for Research on Activity, Development and Learning (CRADLE), University of Helsinki, Finland, October 26, 2017
- Fischer, G.: MOOCs and Learning in the Digital Age, Association of Finnish eLearning Centre, Helsinki, Finland, October 25, 2017
- Fischer, G.: "Envisioning and Grounding New Educational Designs in Data Driven Approaches" MIT Media Lab, May 19, 2017
- Fischer, G.: "Needs and Opportunities for Richer Ecologies of Learning", Seminar "Foundations of Research on Learning and IT", University of Gothenburg, Gothenburg, Sweden, April 5, 2017
- Fischer, G.: "Understanding, Fostering, and Supporting Cultures of Participation", University West, Trollhättan, Sweden, April 4, 2017

2016:

- Fischer, G.: "Quality of Life: A Transformative Framework for Human-Centered Design", iSchool, University of Missouri, Columbia, MO, December 1, 2016
- Fischer, G.: "Quality of Life: A Transformative Framework for Human-Centered Design", University of California, Irvine, November 18, 2016
- Fischer, G.: "Interdisciplinary Collaboration", Ludwig-Maximilians-Universität (LMU) Munich, November 10, 2016
- Fischer, G.: "Quality of Life: A Transformative Framework for Human-Centered Design", University of Stuttgart, November 3, 2016
- Fischer, G.: "From Renaissance Scholars to Renaissance Communities: Learning and Education in the 21st Century", Technical University Munich, June 23, 2016
- Fischer, G.: "Components of a Conceptual Framework for Digitalization of Learning in Work", University of Gothenburg, June 17, 2016

2015:

- Fischer, G.: "Human-Centered Design and Lifelong Learning", Department of Applied IT, University of Gothenburg, October 15, 2015
- Fischer, G.: "Exploring Design Trade-Offs for Quality of Life in the Digital Age", Highland City Club, Boulder, October 6, 2015
- Fischer, G.: "MOOCs and Learning in the Digital Age", University of Bochum, June 25, 2015
- Fischer, G.: "Rich Learning Landscapes – Rethinking and Reinventing Learning, Teaching, and Educational Institutions in the 21st Century", University Bremen, ZMML (Zentrum für Multimedia in der Lehre), June 5, 2015
- Fischer, G.: "Cultures of Participation", Presentation, Promotionsprogramm „Kulturen der Partizipation", University of Oldenburg, June 4, 2015
- Fischer, G.: "Information, Participation, and Collaboration Overload — A Design Trade-Off

Analysis“, CoPDA Workshop “Cultures of Participation in the Digital Age: Coping with Information, Participation, and Collaboration Overload“, IS-EUD’2105, May 26, Madrid

- Fischer, G: “Massively Open Online Courses (MOOCs) as Components of Rich Landscapes of Learning“, Academia Europaea & The Wenner-Gren Foundations Conference: “Emerging Models of Learning and Teaching in Higher Education: From Books to MOOCs?“, May 22, Stockholm
- Fischer, G: “Faustian Bargains and Design Trade-Offs: Frames of Reference for Quality of Life in the Digital Age“, Hanse-Wissenschaftskolleg (HWK), Delmenhorst, Germany, April 22, 2015
- Fischer, G: “Massive, Open, Online Courses (MOOCs) as Components of Rich Landscapes of Learning“, NAPLes Webinar, March 16, 2015

2014:

- Fischer, G: “From Renaissance Scholars to Renaissance Communities — Learning and Education in the 21st Century“, Department of Education, University of Oslo, Norway, November 26
- Fischer, G: “Alternatives to Formal Learning: Lifelong Learning, Self-Directed Learning, Communities of Interest, Cultures of Participation“, PhD Seminar “Open Online Education: Research approaches to investigating organizational and learning aspects of the MOOC phenomenon“, University of Oslo, Norway, November 25
- Fischer, G: “Learning and Education in the 21st Century“, PhD Seminar “Open Online Education: Research approaches to investigating organizational and learning aspects of the MOOC phenomenon“, University of Oslo, Norway, November 24
- Fischer, G: “Rich Landscapes of Learning — Exploring Core Competencies for MOOCs and Residential, Research-Based Universities“, University of Gothenburg, Sweden, November 20
- Fischer, G: “From Renaissance Scholars to Renaissance Communities — Learning and Education in the 21st Century“, Chalmers University, Gothenburg, Sweden, November 20
- Fischer, G: “Rich Landscapes of Learning — Exploring Core Competencies for MOOCs and Residential, Research-Based Universities“, University of Stockholm, November 18
- Fischer, G: “Conceptual Frameworks and Innovative Media for Designing, Learning, Argumentation, and Reasoning“, Ludwig-Maximilians-Universität (LMU) Munich, September 30
- Fischer, G: “The Contribution of MOOCs to Rich Landscapes of Learning“, Conference on “Teaching is Touching the Future“, University Bremen, September 25
- Fischer, G: “Cultures of Participation and Meta-Design“, Jacobs University, Bremen, June 3
- Fischer, G: “Exploring, Understanding, and Designing Innovative Socio-Technical Environments for Fostering and Supporting Mass Collaboration“, International Workshop “Mass Collaboration and Education“, Knowledge Media Research Center, University of Tübingen, May 21-23
- Fischer, G: “Rich Landscapes of Learning — Beyond Hype and Underestimation of MOOCs“, University of Paderborn, May 16
- Fischer, G: “Cultures of Participation and Meta-Design — Transformative Frameworks for Learning and Human-Centered Design“, Hanse-Wissenschaftskolleg, Delmenhorst, Germany, April 23
- Fischer, G: “Quality of Life: A Design Vision for Socio-Technical Environments of the Future“, International Symposium “Design Visions“, Kyoto University, Kyoto, Japan, March 2014

2013:

- Fischer, G: “Meta-Design“, Computer Science Department, University of British Columbia, Vancouver, Canada, February 27
- Fischer, G: “Cultures of Participation“, Technology for Decision Makers Workshop Series, Katholieke Universiteit (KU), Leuven, Belgium, January 24
- Fischer, G: “Context-Aware Systems“, Computer Science Department, Katholieke Universiteit (KU), Leuven, Belgium, January 23
- Fischer, G: “Beyond Interaction: Meta-Design and Cultures of Participation“, Delft University of Technology, Netherlands, January 22

2012:

- Fischer, G: “Meta-Design: Empowering Users To Become Designers“, University of the Basque Country, San Sebastián, Spain, November 12

- Fischer, G: "Human-Centered Computing Themes for the Future", University of Trento, Trento, Italy, October
- Fischer, G: "Education for Everyone: Hype or Reality", Ludwig-Maximilians-Universität (LMU) Munich, July 23
- Fischer, G: "Cultures of Participation", University of Siegen", Germany, June 27
- Fischer, G: "Human-Centered Computing Themes for the Future", University of Milan, February

2011:

- Fischer, G: "'A Conceptual Framework for Computer-Supported Collaborative Learning at Work", University of Konstanz, Germany, November 17, 2011
- Fischer, G: "Understanding, Fostering, and Supporting Cultures of Participation", University of Vienna, Austria, May 27
- Fischer, G: "The Long Tail Framework: Understanding, Fostering, and Supporting Interest-Driven and Passion-Based Learning", University of Oslo, Norway, March 4

2010:

- Fischer, G: "Cultures of Participation", Centrelink, Canberra, Australia, June 2
- Fischer, G: "Meta-Design and Social Creativity— Frameworks for Understanding and Fostering Cultures of Participation", Commonwealth Scientific and Industrial Research Organisation (CSIRO), Sydney, Australia, June 1
- Fischer, G: "Meta-Design: Expanding Boundaries and Redistributing Control in Design", University of Western Sydney, Australia, May 31
- Fischer, G: "'Cultures of Participation'", Ludwig-Maximilians-Universität (LMU) Munich, July 12
- Fischer, G.: "Social Creativity", University of Bari, Italy, May 14
- Fischer, G.: "Meta-Design", University of Bari, Italy, May 12
- Fischer, G.: "Cultures of Participation", University of Bari, Italy, May 11
- Fischer, G: "Transdisciplinary Graduate Education", Ludwig-Maximilians-Universität (LMU) Munich, May 3
- Fischer, G: "Distributed Cognition", Ludwig-Maximilians-Universität (LMU) Munich, April 28
- Fischer, G: "Meta-Design and Social Creativity— Frameworks for Understanding and Fostering Cultures of Participation", University of California, Irvine, February 11

2009:

- Fischer G: "*Meta-Design and Social Creativity: Frameworks for Understanding and Fostering Cultures of Participation*", National Central University, Taipei, Taiwan
- Fischer G: "*Transcending the Unaided, Individual Human Mind: Understanding, Fostering, and Supporting Cultures of Participation*", ACM special interest group in human-computer interaction, Portland, OR, June 3
- Fischer G: "*Meta-Design and Social Creativity — Frameworks for Understanding and Fostering Cultures of Participation*", MIT Media Lab, Cambridge MA, April 10
- Fischer G: "*Meta-Design and Social Creativity: Frameworks for Understanding and Fostering Cultures of Participation*", School of Information, University of Texas, Austin, February 17, 2009
- Fischer G: "*Meta-Design and Social Creativity: Frameworks for Understanding and Fostering Cultures of Participation*", Distinguished Lecture, University of California, San Diego, February 2, 2009

2008:

- Fischer G — June 23: "Social Creativity and Meta-Design: Exploiting the Long-Tail for Design, Learning, and Collaboration", University of Paderborn, Germany
- Fischer G — April 16: "Meta-Design: Putting Owners of Problems in Charge", Carnegie Mellon University Campus Qatar, Doha, Qatar
- Fischer G — April 17: "Individual and Social Creativity", Carnegie Mellon University Campus Qatar, Doha, Qatar

2007:

- Fischer G — Nov 5: Cognitive Lunch, CU Boulder, Psychology: "Designing Socio-Technical Environments in Support of Meta-Design and Social Creativity"
- Fischer G - Sept 28: Catholic University, Santiago, Chile: "Designing Socio-Technical Environments in Support of Meta-Design and Social Creativity"
- Fischer G — June 4: Case Western University, NSF Workshop on Design Requirements: "Meta-Design — Putting Owners of Problems in Charge"
- Fischer G — May 21, University of Bath, UK: "Individual and Social Creativity"
- Fischer G — AERA Conference, Symposium on Science and Design in Design-Based Science Curricula: "Balancing the Tensions between Science and Design in Design-Based Science Curricula"
- Fischer G — March 21, Carnegie Mellon University, Pittsburgh: "Meta-Design: Putting Owners of Problems in Charge"
- Fischer G. — February 20, Dagstuhl Symposium on End-User Software Engineering, Dagstuhl, Germany: "End-User Development (EUD) and End-User Software Engineering (EUSE) — A 'Science of Design' Perspective"

2006:

- Fischer G. — December 8, Nanyang Technological University, Singapore: "Distributed Intelligence: From Reflective Practitioners to Reflective Communities"
- Fischer G. — December 7, National Institute of Education, Singapore: "Beyond Binary Choices: Understanding and Exploiting Trade-Offs to Enhance Creativity"
- Fischer G. — November 8, Fraunhofer Institute FIT, Bonn: "Distributed Intelligence: Extending the Power of the Unaided, Individual Human Mind"
- Fischer G. — September 11, University of Alberta, Edmonton: "Meta-Design: Putting Owners of Problems in Charge"
- Fischer G. — September 8, University of Saskatchewan, Saskatoon: "Distributed Intelligence: Extending the Power of the Unaided, Individual Human Mind"
- Fischer G. — September 7, University of Regina: "Individual and Social Creativity"
- Fischer G. — September 7, University of Regina: "Meta-Design: Putting Owners of Problems in Charge"
- Fischer G. — July 19, Education & Outreach Colloquium Series, NASA's Goddard Space Flight Center, Greenbelt, MD: "Meta-Design: Putting Owners of Problems in Charge"
- Fischer G. — June 26, Fraunhofer Institute, IPSI, Darmstadt: "Distributed Intelligence: Extending the Power of the Unaided, Individual Human Mind"
- Fischer G. — February 10, 2006; ATR Workshop on Knowledge Sharing for Everyday Life, Nara, Japan: "Innovative Media and Technologies in Support of Distributed Intelligence, Knowledge Sharing, and Lifelong Learning"

2005:

- Fischer G., — December 16, 2005: University of Christchurch, New Zealand: "Beyond Binary Choices: Understanding and Exploiting Trade-Offs to Enhance Creativity"
- Fischer G., — December 1, 2005: Presentation at Workshop "Knowledge, Community, and Creativity", RCAST, University of Tokyo: "Beyond Binary Choices: Understanding and Exploiting Trade-Offs to Enhance Creativity"
- Fischer G., — November 30, 2005: Presentation at FujiXerox, Tokyo: "Distance Collaboration and Corporate Memories — Sources for Social Creativity"
- Fischer G., — November 18, 2005: University of Gothenburg, Sweden: "Meta-Design: A Framework for Software Design of the Future"
- Fischer G., — November 9, 2005: "Distances and Diversity: Sources for Social Creativity" School of Interactive Arts and Technology Simon Fraser University, Vancouver, Canada

- Fischer G., — September 12, 2005, University of Siegen, Germany: “Distributed Intelligence: From Reflective Practitioners to Reflective Communities”
- Fischer G., — September 13, 2005, Fraunhofer Research Institute, Bonn, Germany: “Distances and Diversity: Sources for Social Creativity”
- Fischer G., — June 17, 2005, German Federal Ministry for Education and Research, Bonn, Germany, “Innovations for Work: Future of Work and Work of the Future”
- Fischer G., — May 31, 2005: Ted and Janice Smith Distinguished Lecture Speaker, University of California, Irvine: “Distributed Intelligence: From Reflective Practitioners to Reflective Communities”
- Fischer G., “Conceptual Frameworks and Socio-Technical Environments Supporting Learning Organizations”, International Symposium on Work Practice Design, FujiXerox, Tokyo, Japan March 4, 2005
- Fischer G., “Distributed Intelligence: Reflections on Tools for Living and Tools for Learning”, University of Wisconsin, Madison, January 28, 2005

2004:

- Fischer G., “Meta-Design: A Framework for the Future of End-User Development”, Institut für Arbeitswissenschaften, Ruhr-Universität Bochum, Dec 2004
- Fischer G.: “Smart Care: the Importance of Creating Life Histories for People with Cognitive Disabilities” University of Oregon, December 2004
- Fischer G., “Meta-Design: A Framework for the Future of End-User Development”, CISRO, Sydney, Australia, November 26, 2004
- Fischer G., “Social Creativity: Making All Voices Heard”, University of Sydney, November 25, 2004
- Fischer G., “From ‘Anywhere, Anytime, Anyone’ to ‘the Right Information at the Right Time, in the Right Place, in the Right Way to the Right Person’”, International Workshop Series on RFID “Information Sharing and Privacy”, Tokyo, Japan, November 10, 2004
- Fischer G., “Social Creativity: Making All Voices Heard”, International Symposium “Dynamic Communities”, Tokyo, Japan, November 9, 2004
- Fischer G. “Social creativity and meta-design in lifelong learning communities”, National Institute of Standards & Technology, Gaithersburg, MD; June 22, 2004.
- Fischer G. “Supporting Collaboration and Distributed Cognition in Context-Aware Pervasive Computing Environments” University of Maryland, May 7 2004.
- Fischer, G., Arias, E., Carmien, S., Eden, H., Gorman, A., Konomi, S., & Sullivan, J.: “Supporting Collaboration and Distributed Cognition in Context-Aware Pervasive Computing Environments”, 2004 Meeting of the Human Computer Interaction Consortium, Winter Park, Colorado
- Fischer G.: “Social creativity and meta-design in lifelong learning communities”, University of Madison, Wisconsin, January 30

2003:

- “Reinventing Learning and Teaching from a Social Creativity Perspective”, PKAL Workshop, Boulder, 21 November 2003
- “Meta-Design — Empowering Users to Act as Informed Participants”, SAP, 15 July 2003, Walldorf, Germany
- “Design, Design Communities, and Knowledge Management: Why Learning from the Past is not Enough!” 7 July 2003, University of Klagenfurt, Austria
- “Computer Science and the University of the 21st Century — New Media, Mindsets, Cultures, and Learning Organizations”, University of Canterbury, 18 June 2003, New Zealand
- “Meta-Design”, CSIRO, Melbourne, 9 June 2003, Australia
- “Doing Basic Research on Real Problems — Designing the Intelligent Personal and Shared Information Environments of the Future”, Murdoch University, Perth, 4 June 2003,
- “Knowledge Management (KM) — Why Learning from the Past is not Enough!”, CSIRO, Alice Springs, 3 June 2003, Australia

- “Learning Paradigms of the 21st Century — New Mindsets, New Cultures, and New Media for Learning”, University of Waikato, 22 May 2003, Hamilton, New Zealand
- “Communities of Interest: Bringing Different Communities of Practice Together”, Symposium Collaborative Working — Integrating Creative and Technical Expertise, Waikato University, April 2003, Hamilton, New Zealand
- “Collaborative Design — Theory, Systems, Practice, and Assessment”, Interdisciplinary College IK 2003, Günne, Germany, March 7, 2003
- “Human-Computer Interaction and New Media — Research Challenges for the Future”, Technical University (RWTH) Aachen, March 6, 2003
- “Communities of Practice and Communities of Interest”, CSIRO Mathematical and Information Sciences, Sydney, February 12, Australia
- “Knowledge Management — Why Learning from the Past is not Enough!”, International Symposium “Knowledge Management and the Global Firm: Organizational and Technological Dimensions”, University of Sydney, February 7, Australia

2002:

- Learning Paradigms of the 21st Century — New Mindsets, New Cultures, and New Media for Learning, Centre for Lifelong Learning and Development, Adelaide, November 15, 2002
- “Knowledge Management (KM) — Problems, Promises, Realities, and Challenges”, Department of Computer Science, University of Sydney, November 13, 2002
- Social Creativity and Meta-Design in Lifelong Learning Communities, Hail Seminar, Intelligent Interactive Technologies (IIT) Research Group, CSIRO Mathematical and Information Sciences, Sydney, November 12
- “Knowledge Management (KM) — Problems, Promises, Realities, and Challenges”, University of Technology, Sydney, November 11, 2002
- “Knowledge Management and Learning Organizations”, Research Center for Advanced Science and Technology (RCAT), University of Tokyo, October 10, 2002
- Social Creativity and Meta-Design in Lifelong Learning Communities, NTT Computer Science Laboratories, Japan, October 8, 2002
- “Social Creativity and Meta-Design in Lifelong Learning Communities”, Canterbury University, Christchurch, NZ, August 28
- “Why Anatomy does not have to be Destiny”, MIT Media Lab, Cambridge MA, July 12
- “Social Creativity and Meta-Design in Lifelong Learning Communities”, Cornell University, Ithaca, July 8
- “Social Creativity and Meta-Design in Lifelong Learning Communities”, University of Munique, Germany, June 20
- “Distributed Cognition - Why Anatomy does not have to be Destiny”, University of Tübingen, Germany, June 19
- “Beyond Gift-Wrapping and Technology Enthusiasm — The Co-Evolution of Learning, New Media and New Learning Organizations”, University of Freiburg, Germany, June 17
- “Shared Knowledge in Communities of Interest”, International Workshop Barriers and biases in computer-mediated knowledge communication - and how they may be overcome”, University of Münster, Germany, June 13
- “Social Creativity, Meta-Design, Open Systems and Social Capital”, Workshop “The Role of IT in Social Capital”, University of Amsterdam, May 27
- “Making Learning a Part of Life — Beyond the ‘Gift Wrapping’ Approach of Technology”, Symposium über Kooperatives Lernen und Spielen, Fraunhofer Institut Angewandte Informationstechnik, Bonn, Germany, May 24
- “Transcending the Individual Human Mind: Social Creativity and Meta-Design”, University of Oregon, Eugene, Oregon, May 3
- “Social Creativity and Meta-Design in Lifelong Learning Communities”, Seminar on People, Computers, and Design, Stanford University, April 19
- “Social Creativity and Meta-Design in Lifelong Learning Communities”, University of Utah, March

- Distinguished Lecture Series, Information Sciences and Technology School, Penn State “Social Creativity and Meta-Design in Lifelong Learning Communities”, Friday, February 22

PhD Graduates (CU Boulder)

In Academic Tenure-Track Faculty Position:

- Stefanie Lindstaedt, Professor and Head of Knowledge Technologies Institute (KnowLab), Graz University of Technology, Austria
- Kumiyo Nakakoji, Professor, Center for the Promotion of Interdisciplinary Education and Research, Kyoto University Design School, Kyoto, Japan
- David Redmiles (NSF Career Award), Full Professor, University of California, Irvine
- Frank Shipman (NSF Career Award), Full Professor, Texas A&M University
- Gerry Stahl, Research Full Professor, Drexel University, Philadelphia, PA
- Brent Reeves, Associate Professor, Abilene Christian University, Abilene, Texas
- Tamara Sumner, Associate Professor, University of Colorado, Boulder, CO

In Academic and Federal Agency Research Positions:

- Jonathan Ostwald, Research Associate, University Corporation for Atmospheric Research (UCAR), Boulder
- Jim Sullivan, Senior Research Associate, CU-Boulder, CO

In Industrial Research Positions:

- Stefan Carmien, Senior Researcher, Fatronik-Tecnia, San Sebastian, Spain
- Melissa Dawe, Senior User Research Manager, Autodesk, San Francisco CA
- Holger Dick, Research Scientist, Google, Mountain View, California
- Rogerio dePaula, Research Scientist, IBM Research Center, Brazil
- Andreas Girgensohn, Principal Scientist, FXPAL, Palo Alto CA
- Scott Henninger (NSF Career Award), Product and Training Engineer, TopQuadrant, Inc., Lincoln NE
- Andreas Lemke, Senior Researcher, SEL-Alcatel, Stuttgart, Germany
- Thomas Mastaglio, Chief Executive Officer, MYMIC LLC, Portsmouth, VA
- Eric Scharff, Research Associate, Google, Boulder, CO
- Curt Stevens, Director of Software Engineering, Disney Interactive Media Group/Playdom
- Yunwen Ye, Principal Software Engineer, Rebit Inc., Longmont CO

Major Research Grants and Contracts

Remark: Unless otherwise noted, I served as PI or as Co-PI with the other persons listed on these grants.

- 2018: “Identifying Challenges and Design Trade-Offs for the Future of Learning Analytics Research”, \$ 1,000, CU Retired Faculty Research Grants Program,
- 2017: “Design Trade-Offs for Quality of Life — Exploring Grand Challenges for the Digital Age”, (with Thomas Herrmann and Volker Wulf), Support for a Symposium, October 2017, Schloss Herrenhausen, Hannover, Germany; Euro 58,000, VW Foundation
- 2011-2014: “SoCS: Theoretical Frameworks and Socio-Technical Systems for Fostering Smart Communities in Smart Grid Environments”, \$ 749,708, NSF-CISE-IIS
- 2010-2013: “CDI-Type I: Transformative Models of Learning and Discovery in Cultures of Participation”, \$ 660,000, NSF-CISE-IIS

- 2011-2012: “SoCS: Energy Sustainability and Smart Grids: Fostering and Supporting Cultures of Participation in the Energy Landscape of the Future”, \$ 16,000, REU Supplemental Award, NSF-CISE-IIS
- 2011-2012: “CDI-Type I: Transformative Models of Learning and Discovery in Cultures of Participation”, \$ 16,000, REU Supplemental Award, NSF-CISE-IIS
- 2010-2011: “SoCS: Energy Sustainability and Smart Grids: Fostering and Supporting Cultures of Participation in the Energy Landscape of the Future”, \$ 249,525, NSF-CISE-IIS
- 2009-2010: “SoD-Team: A Meta-Design Framework for Participative Software Systems”, REU Grant, \$ 16,000, NSF-CISE-IIS
- 2008-2009: “SGER: Increasing Participation and Sustaining a Research Community in Creativity and IT”, \$100,000, NSF-CISE-IIS
- 2007-2008: “Giving All Stakeholders a Voice”, \$150K, SAP Labs, Palo Alto
- 2007-2008: “Motivating and Empowering Users to Become Active Contributors”, \$60K, Google Research Award
- 2007-2008: “SGER: A New Generation Wiki for Supporting a Research Community in Creativity and IT”, \$199,974, NSF-CISE-IIS
- 2006-2009: “A Meta-Design Framework for Participative Software Systems”, \$745,448; Sponsor: National Science Foundation, CISE, Science of Design Program
- 2005-2006: “CLever: Building Cognitive Levers to help people help themselves”, \$ 160,000; Sponsor: Coleman Institute
- 2005: “Creativity Support Tools” (with Ben Shneiderman; grant awarded to the University of Maryland), \$45,000, Sponsor: NSF CISE — Support for a Workshop, Washington, DC
- 2004-2005: “SGER: Designing and developing mobile computing infrastructures and architectures to support people with cognitive disabilities and caregivers in authentic everyday tasks”, \$ 107,000; Sponsor: NSF CISE
- 2004-2005: “Smart Care — Socio-Technical Environments for People with Cognitive Disabilities”, \$ 30,000K, Sponsor: Imagine!, Boulder, CO
- 2000 – 2005: “CLever: Building Cognitive Levers to help people help themselves”, \$ 2,400,000; Sponsor: Coleman Family Foundation
- 2002-2005: “A Social-Technical Approach to the Evolutionary Construction of Reusable Software Component Repositories” (with Yunwen Ye), \$202,875, Sponsor: National Science Foundation, Division of Computer-Communications Research (Software Engineering)
- 2001-2005: “Social Creativity and Meta-Design in Lifelong Learning Communities” (with Ernesto Arias, Hal Eden, and Michael Eisenberg), \$1,282,353; Sponsor: National Science Foundation, Directorate of Education and Human Resources
- 2002: “Enhancing Collaborative Learning Among Researchers, Practitioners, and Students at CSCL 2002” (with Hal Eden, and Gerry Stahl), \$49,860, Sponsor: National Science Foundation, Directorate of Education and Human Resources (support for the CSCL conference in January, Boulder)
- 2000: “Informed Participation — A Foundation for Creating Shared Understanding in Collaborative Design and Decision Making”, \$ 60,000; Sponsor: ONR
- 1997-2001: “Allowing Learners to be Articulate: Incorporating Automated Text Evaluation into Collaborative Software Environments” (with W. Kintsch and T.K. Landauer), \$678,239; Sponsor: James S. McDonnell Foundation
- 1997-2000: “Explorations in the Design of Future Computational Systems for Every-Day Life”, \$450,00, Sponsor: PFU, Ltd., Tokyo, Japan

- 1997-2000: “Conceptual Frameworks and Computational Support for Organizational Memories and Organizational Learning” (with J. Ostwald and G. Stahl), \$725,000; Sponsor: National Science Foundation
- 1996-1999: “Lifelong Learning - Bringing Learning Activities to Life” (with M. Eisenberg, H. Eden, and A. Repenning), \$1,935,996; Sponsor: National Science Foundation
- 1996-1997: “Shared Interaction in Support of Design, Learning and Planning” (with E. Arias and H. Eden), \$61,300; Sponsor: National Science Foundation
- 1996-1997: “Making Learning a Part of Life: Theories, Technologies, Practices, and Assessment in Support of Lifelong Learning”, Collaborative Research on Learning Technology (CRLT) Center Planning Grant (with 12 Co-PIs), \$50,000; Sponsor: National Science Foundation
- 1995-1996: “Learning by Design: Environments to Support Reinventing and Reengineering Education as a Lifelong Process” (with H. Eden, M. Eisenberg and A. Repenning), \$398,482; Sponsor: National Science Foundation
- 1994-1996: “Next Generation Authoring Tools & Instructional Applications”, \$414,235; Sponsor: Technology Reinvestment Program (TRP)
- 1994-1997: “Designing Useful *and* Usable Computational Environments” (with M. Eisenberg); \$900,000; Sponsor: Advanced Research Projects Agency (ARPA)
- 1994-1997: “Human-Centered, Intelligent Agents Supporting Communication and Collaboration in Domain-Oriented Design Environments”; \$210,000; Sponsor: National Science Foundation
- 1994-1995: “Learning on Demand - Using Networks for the Integration of School and Workplace Learning” (with H. Eden and M. Eisenberg), \$436,141; Sponsor: National Science Foundation
- 1992-1995: “Mastering High-Functionality Systems by Supporting Learning on Demand” (with M. Eisenberg); \$1,068,097; Sponsor: National Science Foundation
- 1992-1994: “Beyond Object Oriented Programming: A Knowledge-Based Architecture for Contextualized Software Design”; \$64,700; Sponsor: Colorado Advanced Software Institute, Denver, CO
- 1992-1993: “Effective Use of Parallel and Distributed Computing”; \$49,193; Sponsor: National Science Foundation
- 1990-1993: “Supporting Collaborative Design with Integrated Knowledge-Based Design Environments” (with A. Lemke and R. McCall); \$700,000; Sponsor: National Science Foundation
- 1990-1993: CU-USWest Partnership Program (with C. Lewis, R. King, A. Lemke, G. Nutt, N. Pennington and P. Polson), \$746,969; Sponsor: USWest Advanced Technologies, Boulder, CO
- 1990-1995: “Effective Use of Parallel and Distributed Computing” (contributing investigator), \$1,999,687; Sponsor: National Science Foundation, CISE Institutional Infrastructure Grant
- 1988-1991: “Design Principles for Comprehensible Systems” (with W. Kintsch, C. Lewis, and P. Polson); \$1,171,246; Sponsor: National Science Foundation (group grant)
- 1986-1991: “Theories, Methods and Tools for the Design of User-Centered Computer Systems” (with W. Kintsch); \$986,867; Sponsor: Army Research Institute (ARI)
- 1987-1989: “Software Development Environment Research” (with R. King, G. Nutt, and L. Osterweil); \$440,700; Sponsor: USWest Advanced Technologies, Englewood, CO
- 1986-1988: “The Application of Knowledge Engineering Techniques to Automatic Compiler Construction” (with V. Heuring and W. Waite); \$337,204; Sponsor: Army Research Office
- 1985-1989: “A Facility for Research in Distributed Numerical Computation, Software Environments and Artificial Intelligence” (contributing investigator); \$4,900,000; Sponsor: National Science Foundation and CU-Boulder
- 1987-1992: “Optoelectronic Computing Systems” (COCS) (contributing investigator); \$14,500,000; Sponsor: National Science Foundation and CU-Boulder

- 1986: “Artificial Intelligence Research to support Human-Computer Communication, Intelligent Tutoring Systems and Software Engineering”; \$2,500,000; Equipment Grant from Hewlett Packard, (with C. Lewis)
- 1985-1986: “Enhancing Incremental Learning Processes with Knowledge-based Systems”; \$243,000; Sponsor: Office of Naval Research
- 1985: NSF Equipment Grant (with V. Heuring, W. Waite, M. Lightner, C. Lewis, and L. Osterweil); \$150,000; Sponsor: NSF Engineering Program
- 1984-1988: “WISDOM: Knowledge-Based Systems for Office Communication, Document Processing and Human-Computer Communication” (with Triumph-Adler and GMD); \$11,500,000; Sponsor: German Federal Ministry of Research and Technology
- 1983-1984: “Knowledge acquisition”; \$100,000; Sponsor: Triumph-Adler, Nürnberg, Germany
- 1983-1985: “Knowledge-based systems and human-computer communication” (with R. Gunzenhäuser); \$1,300,000; Sponsor: German Federal Ministry of Research and Technology
- 1981-1982: “Integrated, interactive, personal information manipulation systems” (with R. Gunzenhäuser); \$600,000; Sponsor: German Federal Ministry of Research and Technology
- 1980-1981: “Evaluation study of natural language question/answering systems” (with J. Laubsch); \$150,000; Sponsor: German Federal Ministry of Research and Technology
- 1975-1977: “Problem Solving with Interactive Computer System: Project LOGO” (contributing investigator); \$675,000; Sponsor: German Federal Ministry of Science and Education

Financial Support from Companies

- 1993-1998: PFU, Ltd., Tokyo, Japan for the Center for LifeLong Learning & Design (L³D)
- 1993-1998: NYNEX Science and Technology for the Center for LifeLong Learning & Design (L³D)
- 1997-1998: DaimlerBenz Forschung und Technik, Ulm, Germany for the Center for LifeLong Learning & Design (L³D)
- 1993-1994: Siemens Corporation, Munich, Germany for the Human-Computer Communications Group
- 1993-1994: USWest Foundation for the Research Program “Learning on Demand”
- 1992-1994: Equipment grants from Apple Computer, Inc., Cupertino, CA for the Human-Computer Communication Group and the Center for LifeLong Learning & Design (L³D)
- 1989-1998: NYNEX Science and Technology for the NYNEX/CU Graduate Fellowship
- 1989-present: Software Research Associates (SRA), Tokyo, Japan and Boulder, CO for the Human-Computer Communication Group and the Center for LifeLong Learning & Design (L³D)

Publications

Books

1. Arias, E. G., Eden, H., & Fischer, G. (2016): "The Envisionment and Discovery Collaboratory (EDC) — Explorations in Human-Centered Informatics with Tabletop Computing Environments", Morgan & Claypool Publishers
2. Costabile, M. F., Dittrich, Y., Fischer, G., & Piccinno, A. (Eds.) (2011) *End-User Development (Third International Symposium, Torre Canne, Italy, June), Volume LNCS 6654*, Springer, Heidelberg
3. "More Than Screen Deep—Toward Every-Citizen Interfaces to the Nation's Information Infrastructure" (with A. Biermann et. al.), Computer Science and Telecommunications Board, National Research Council, National Academy Press, Washington DC, 1997
4. "Interactive Problem Solving with LOGO" (with H.-D. Böcker and H. Eden); Lawrence Erlbaum Associates, Inc., Hillsdale, NJ, 1991
5. "Interaktives Problemlösen mit LOGO; Band 2: Praktische Projekte; Teil 3: Künstliche Intelligenz und Sprache" (with H.-D. Böcker and U. Schollwöck), IWT-Verlag, Vaterstetten, Germany, 1987
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