Monday Full Session Content
Monday (2019-05-06)

Monday - 09:00 - 10:30

**Keynote: Welcome and Opening Keynote**
- Monday - 09:00 - 10:30  
  Room: Clyde Auditorium
- Aleks Krotoski (Pillowfort Productions, London, UK)
- Miscellaneous: Speaker prep room  
  Monday - 09:00 - 10:30  
  Room: Etive

Monday - 10:30 - 11:00

Break: Morning coffee break  
- Monday - 10:30 - 11:00  
  Room: Hall 5a
- Miscellaneous: Speaker prep room  
  Monday - 10:30 - 11:00  
  Room: Etive

Monday - 11:00 - 12:20

**alt.chi session: CHI Hard?**
- Monday - 11:00 - 12:20  
  Room: Carron 2
  Chair: Conor Linehan
  The Continued Prevalence of Dichotomous Inferences at CHI
  - Lonni Besançon (Linköping University, Norrköping, Sweden)
  - Pierre Dragicevic (Inria, Saclay, France)
  How we Guide, Write, and Cite at CHI
  - Henning Pohl (University of Copenhagen, Copenhagen, Denmark)
  - Aske Mottelson (University of Copenhagen, Copenhagen, Denmark)
  We Did It Right, But It Was Still Wrong: Toward Assets-Based Design
  - Lucy Pei (University of California, Irvine, Irvine, CA, USA)
  - Bonnie Nardi (University of California, Irvine, Irvine, CA, USA)
  Bringing Shades of Feminism To Human-Centered Computing
  - Manasee Narvilkar (Georgia Institute of Technology, Atlanta, GA, USA)
  - Josiah Mangiameli (Georgia Institute of Technology, Atlanta, GA, USA)
  - Adriana Alvarado Garcia (Georgia Institute of Technology, Atlanta, GA, USA)
  - Azra Ismail (Georgia Institute of Technology, Atlanta, GA, USA)
  - Daniel Schiff (Georgia Institute of Technology, Atlanta, GA, USA)
  - Danielle Schechter (Georgia Institute of Technology, Atlanta, GA, USA)
  - Jordan Chen (Georgia Institute of Technology, Atlanta, GA, USA)
  - Karthik Bhat (Georgia Institute of Technology, Atlanta, GA, USA)
  - Marisol Wong-Villacres (Georgia Institute of Technology, Atlanta, GA, USA)
  - Anusha Vasudeva (Georgia Institute of Technology, Atlanta, GA, USA)
  - Aparna Ramesh (Georgia Institute of Technology, Atlanta, GA, USA)
  - Michaelanne Dye (University of Washington, Seattle, WA, USA)
  - Naveena Karusala (University of Washington, Seattle, WA, USA)
  - Pragati Singh (Georgia Institute of Technology, Atlanta, GA, USA)
  - Savanthi Murthy (Georgia Institute of Technology, Atlanta, GA, USA)
  - Shubhangi Gupta (Georgia Institute of Technology, Atlanta, GA, USA)
  - Udaya Lakshmi (Georgia Institute of Technology, Atlanta, GA, USA)
  - Neha Kumar (Georgia Institute of Technology, Atlanta, GA, USA)

Case study session: Metrics and Models
- Monday - 11:00 - 12:20  
  Room: Argyll 1 CROWNE
  Chair: Ilias Flaounas
  Towards Metrics of Meaningfulness for Tech Practitioners
  - Vanessa Julia Carpenter (IdemoLab, FORCE Technology & Aalborg University, Copenhagen, Denmark)
  - Elisa D. Meikler (University of Basel, Basel, Switzerland)
  Designing an Informal Learning Curriculum to Develop 3D Modeling Knowledge and Improve Spatial Thinking Skills
  - Srinjita Bhaduri (University of Colorado Boulder, Boulder, CO, USA)
  - Katie Van Horne (University of Colorado Boulder, Boulder, CO, USA)
  - Tamara Sumner (University of Colorado Boulder, Boulder, CO, USA)

Explorations on Single Usability Metrics
- Michael Van Waardhuizen (Microsoft, Redmond, WA, USA)
- Jennifer McLean-Oliver (Microsoft, Redmond, WA, USA)
- Nancy Perry (Microsoft, Redmond, WA, USA)
- Joe Munko (Microsoft, Redmond, WA, USA)

**Triptech A Method for Evaluating Early Design Concepts**
- Julie Anne Séguin (Google Inc., Mountain View, CA, USA)
- Alec Scharff (Google Inc., Mountain View, CA, USA)
- Kyle Pedersen (Google Inc., Mountain View, CA, USA)

Course: Modern Vision Science for Designers: Making Designs Clear at a Glance
- Monday - 11:00 - 12:20  
  Room: Argyll 2 CROWNE
  - Ruth Rosenholtz (Massachusetts Institute of Technology, Cambridge, MA, USA)
  - Dian Yu (Massachusetts Institute of Technology, Cambridge, MA, USA)

Course: Making with Fabric: Foundations of Soft Goods and E-Textiles Fabrication
- Monday - 11:00 - 12:20  
  Room: Castle 3 CROWNE
  - Lucy E. Dunne (University of Minnesota, St. Paul, MN, USA)
Course: Sketching in HCI: Hands-on Course of Sketching Techniques  
Monday - 11:00 - 12:20  Room: Castle 1 CROWNE  
- Makayla Lewis (Brunel University London, London, United Kingdom)  
- Miriam Sturdee (University of Calgary, Calgary, Canada)  
- Nicolai Marquardt (University College London, London, United Kingdom)

Course: How to Write CHI Papers (Third Edition)  
Monday - 11:00 - 12:20  Room: Castle 2 CROWNE  
- Lennart E. Nacke (University of Waterloo, Waterloo, Canada)

Course: Introduction to Human-Computer Interaction  
Monday - 11:00 - 12:20  Room: Argyll 3 CROWNE  
- Jonathan Lazar (University of Maryland, College Park, MD, USA)  
- Simone Diniz Junqueira Barbosa (PUC-Rio, Rio de Janeiro, Brazil)

Miscellaneous: Speaker prep room  
Monday - 11:00 - 12:20  Room: Etive

Paper session: Fabrication  
Monday - 11:00 - 12:20  Room: Alsh 2  
Chair: Daniel Ashbrook  

Shape Structuralizer: Design, Fabrication, and User-driven Iterative Refinement of 3D Mesh Models  
- Subramanian Chidambaram (Purdue University, West Lafayette, IN, USA)  
- Yunbo Zhang (Rochester Institute of Technology, Rochester, NY, USA)  
- Venkatraghavan Sundararajan (Purdue University, West Lafayette, IN, USA)  
- Niklas Elmqvist (University of Maryland, College Park, MD, USA)  
- Karthik Ramani (Purdue University, West Lafayette, IN, USA)

JigFab: Computational Fabrication of Constraints to Facilitate Woodworking with Power Tools  
- Danny Leen (Katholieke Universiteit Leuven, Leuven, Belgium)  
- Tom Veuskens (Hasselt University, Diepenbeek, Belgium)  
- Kris Luyten (Hasselt University - tUJL - Flanders Make, Diepenbeek, Belgium)  
- Raf Ramakers (Hasselt University, Hasselt, Belgium)

Digital Fabrication of Soft Actuated Objects by Machine Knitting  
- Lea Albaugh (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Scott Hudson (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Lining Yao (Carnegie Mellon University, Pittsburgh, PA, USA)

Understanding Metamaterial Mechanisms  
- Alexandra Ion (Hasso Plattner Institute, University of Potsdam, Potsdam, Germany)  
- David Lindlbauer (Technische Universität Berlin & ETH Zurich, Berlin, Germany)  
- Philipp Herholz (Technische Universität Berlin, Berlin, Germany)  
- Marc Alexa (Technische Universität Berlin, Berlin, Germany)  
- Patrick Baudisch (Hasso Plattner Institute, University of Potsdam, Potsdam, Germany)

Paper session: Interacting with Videos  
Monday - 11:00 - 12:20  Room: Boisdale 2  
Chair: Frank Bentley  

How to Design Voice Based Navigation for How-To Videos  
- Minsuk Chang (Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)  
- Anh Truong (Adobe Research, San Francisco, CA, USA)  
- Oliver Wang (Adobe Research, Seattle, WA, USA)  
- Maneeush Agrawala (Stanford University, Stanford, CA, USA)  
- Juho Kim (Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)

B-Script: Transcript-based B-roll Video Editing with Recommendations  
- Bernd Huber (Harvard University, Cambridge, MA, USA)  
- Hyung Valentina Shin (Adobe Research, Cambridge, MA, USA)  
- Bryan Russell (Adobe Research, San Francisco, CA, USA)  
- Oliver Wang (Adobe Research, Seattle, WA, USA)  
- Gautham J. Mysore (Adobe Research, San Francisco, CA, USA)

TutoriVR: A Video-Based Tutorial System for Design Applications in Virtual Reality  
- Balasaravan Thoravi Kumaravel (University of California, Berkeley, Berkeley, CA, USA)  
- Cuong Nguyen (Adobe Research, San Francisco, CA, USA)  
- Stephen DiVerdi (Adobe Research, San Francisco, CA, USA)  
- Björn Hartmann (University of California, Berkeley, Berkeley, CA, USA)

Interactive Body-Driven Graphics for Augmented Video Performance  
- Nazmus Saquib (Massachusetts Institute of Technology, Cambridge, MA, USA)  
- Rubaiat Habib Kazi (Adobe Research, Toronto, Canada)  
- Li-Yi Wei (Adobe Research, San Jose, CA, USA)  
- Wilmot Li (Adobe, Seattle, WA, USA)

Paper session: Smart Homes and IoT  
Monday - 11:00 - 12:20  Room: Hall 1  
Chair: Karola Marky  

Exploring How Privacy and Security Factor into IoT Device Purchase Behavior  
- Pardis Emami-Naeini (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Henry Dixon (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Yuvraj Agarwal (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Lorrie Faith Cranor (Carnegie Mellon University, Pittsburgh, PA, USA)
Defending My Castle: A Co-Design Study of Privacy Mechanisms for Smart Homes
- Yaxing Yao (Syracuse University, Syracuse, NY, USA)
- Justin Reed Basdeo (Syracuse University, Syracuse, NY, USA)
- Smirthy Kaushik (Syracuse University, Syracuse, NY, USA)
- Yang Wang (Syracuse University, Syracuse, NY, USA)

I (Don't) See What You Typed There! Shoulder-surfing Resistant Password Entry on Gamepads
- Peter Mayer (Karlsruhe Institute of Technology, Karlsruhe, Germany)
- Nina Gerber (Karlsruhe Institute of Technology, Karlsruhe, Germany)
- Benjinn Reinheimer (Karlsruhe Institute of Technology, Karlsruhe, Germany)
- Philipp Rack (Technische Universität Darmstadt, Darmstadt, Germany)
- Kristoffer Braun (Technische Universität Darmstadt, Darmstadt, Germany)
- Melanie Volkamer (SECUSO, Karlsruhe Institute of Technology, Karlsruhe, Germany)

Voice Presentation Attack Detection through Text-Converted Voice Command Analysis
- Il-Youp Kwak (Samsung Research, Seoul, Republic of Korea)
- Jun Ho Huh (Samsung Research, Seoul, Republic of Korea)
- Seung Taek Han (Samsung Research, Seoul, Republic of Korea)
- Iljoo Kim (Samsung Research, Seoul, Republic of Korea)
- Jiwon Yoon (Korea University, Seoul, Republic of Korea)
- Iljoo Kim (Samsung Research, Seoul, Republic of Korea)

Paper session: On the Streets
Monday - 11:00 - 12:20 Room: Boisdale 1
Chair: Daniela Busse

NaviBike: Comparing Unimodal Navigation Cues for Child Cyclists
- Andrii Matviienko (OFFIS - Institute for Information Technology, Oldenburg, Germany)
- Swamy Ananthanarayan (University of Oldenburg, Oldenburg, Germany)
- Abdallah El Ali (Centrum Wiskunde & Informatica (CWI), Amsterdam, Netherlands)
- Wilko Heuten (OFFIS - Institute for Information Technology, Oldenburg, Germany)
- Susanne Boll (University of Oldenburg, Oldenburg, Germany)

At Your Service: Designing Voice Assistant Personalities to Improve Automotive User Interfaces
- Michael Braun (BMW Group Research, New Technologies, Innovations & Ludwig Maximilian University of Munich, Garching, Germany)
- Anja Mainz (Ludwig Maximilian University of Munich, Munich, Germany)
- Ronee Chadowitz (BMW Group Research, New Technologies, Innovations, Garching, Germany)
- Bastian Pfleging (Ludwig Maximilian University of Munich, Munich, Germany)
- Florian Alt (Bundeswehr University Munich & Ludwig Maximilian University of Munich, Munich, Germany)

In UX We Trust: Investigation of Aesthetics and Usability of Driver-Vehicle Interfaces and Their Impact on the Perception of Automated Driving
- Anna-Katharina Frison (Technische Hochschule Ingolstadt & Johannes Kepler University, Ingolstadt, Germany)
- Philipp Wintersberger (Technische Hochschule Ingolstadt & Johannes Kepler University, Ingolstadt, Germany)
- Andreas Riefer (Technische Hochschule Ingolstadt, Ingolstadt, Germany)
- Clemens Schartmüller (Technische Hochschule Ingolstadt & Johannes Kepler University, Ingolstadt, Germany)
- Linda Ng Boyle (University of Washington, Seattle, WA, USA)
- Erika Miller (Colorado State University, Fort Collins, CO, USA)
- Klemens Weigl (Katholische Hochschule Eichstätt-Ingolstadt & Technische Hochschule Ingolstadt, Eichstätt, Germany)

PicMe: Interactive Visual Guidance for Taking Requested Photo Composition

Best Paper Award

Paper session: Designing for Vulnerable Populations
Monday - 11:00 - 12:20 Room: Gala
Chair: Maryam Mustafa

Understanding Life Transitions: A Case Study of Support Needs of Low-Income Mothers
- Annu Sible Prabhakar (University of Cincinnati & Indiana University, Bloomington, IN, USA)
- Erik Stolterman (Indiana University Bloomington, Bloomington, IN, USA)
- Selma Šabanović (Indiana University, Bloomington, IN, USA)

Accessing a New Land: Designing for a Social Conceptualisation of Access
- Lizzie Coles-Kemp (Royal Holloway University of London, London, United Kingdom)
- Rikke Bjerg Jensen (Royal Holloway University of London, London, United Kingdom)

"I Bought This for Me to Look More Ordinary": A Study of Blind People Doing Online Shopping
- Guanhong Liu (Tsinghua University & Ministry of Education, Beijing, China)
- Chun Yu (Tsinghua University & Ministry of Education, Beijing, China)
- Lan Gao (Beihang University, Beijing, China)
- Xingyu Chi (Kensington Park School, London, United Kingdom)
- Yuanchun Shi (Tsinghua University & Ministry of Education, Beijing, China)
"I was really, really nervous posting it": Communicating about Invisible Chronic Illnesses across Social Media Platforms
- Shruti Sannon (Cornell University, Ithaca, NY, USA)
- Elizabeth I. Murnane (Stanford University, Stanford, CA, USA)
- Natalya N. Bazarova (Cornell University, Ithaca, NY, USA)
- Geraldine Gay (Cornell University, Ithaca, NY, USA)

Paper session: AR/VR 1: Accessibility
Monday - 11:00 - 12:20  Room: Alsh 1
Chair: Vinoba Vinayagamoorthy
SeeingVR: A Set of Tools to Make Virtual Reality More Accessible to People with Low Vision
- Yuhang Zhao (Cornell Tech & Microsoft Research, New York, NY, USA)
- Edward Cutrell (Microsoft Research, Redmond, WA, USA)
- Christian Holz (Microsoft Research, Redmond, WA, USA)
- Meredith Ringel Morris (Microsoft Research, Redmond, WA, USA)
- Eyal Ofek (Microsoft Research, Redmond, WA, USA)
- Andrew D. Wilson (Microsoft Research, Redmond, WA, USA)

Virtual Showdown: An Accessible Virtual Reality Game with Scaffolds for Youth with Visual Impairments
- Ryan Wodoff (Microsoft, Redmond, WA, USA)
- Lindsay Ball (The College at Brockport, State University of New York, Brockport, NY, USA)
- Amelia Wang (University of Washington, Seattle, WA, USA)
- Yi Xuan Kho (University of Iowa, Iowa City, IA, USA)
- Lauren Lieberman (The College at Brockport, State University of New York, Brockport, NY, USA)
- Kyle Rector (University of Iowa, Iowa City, IA, USA)

Examining Augmented Virtuality Impairment Simulation for Mobile App Accessibility Design
- Kenny Tsu Wei Choo (Singapore Management University, Singapore, Singapore)
- Rajesh Krishna Balan (Singapore Management University, Singapore, Singapore)
- Youngki Lee (Seoul National University, Seoul, Republic of Korea)

The Effect of Field-of-View Restriction on Sex Bias in VR Sickness and Spatial Navigation Performance
- Majed Al Zayer (University of Nevada, Reno, NV, USA)
- Isayas B. Adhanom (University of Nevada, Reno, NV, USA)
- Paul MacNeillage (University of Nevada, Reno, NV, USA)
- Eelke Folmer (University of Nevada, Reno, NV, USA)

Paper session: Social Justice 1
Monday - 11:00 - 12:20  Room: Hall 2
Chair: Michael Muller
Mapping the Margins: Navigating the Ecologies of Domestic Violence Service Provision Honourable Mention
- Rosanna Bellini (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Angelika Strohmayer (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Patrick Olivier (Monash University, Melbourne, Australia)
- Clara Crivellaro (Newcastle University, Newcastle upon Tyne, United Kingdom)

Technologies for Social Justice: Lessons from Sex Workers on the Front Lines Honourable Mention
- Angelika Strohmayer (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Jenn Clamen (Stella, l'amie de Maimie, Montreal, Canada)
- Mary Laing (Northumbria University, Newcastle upon Tyne, United Kingdom)

Street-Level Algorithms: A Theory at the Gaps Between Policy and Decisions Best Paper Award
- Ali Alkhathit (Stanford University, Stanford, CA, USA)
- Michael Bernstein (Stanford University, Stanford, CA, USA)

Designing User Interface Elements to Improve the Quality and Civility of Discourse in Online Commenting Behaviors
- Joseph Seering (Carnegie Mellon University, Pittsburgh, PA, USA)
- Tianmi Fang (Carnegie Mellon University, Pittsburgh, PA, USA)
- Luca Damasco (Carnegie Mellon University, Pittsburgh, PA, USA)
- Mianhong 'Cherie' Chen (Carnegie Mellon University, Pittsburgh, PA, USA)
- Likang Sun (Carnegie Mellon University, Pittsburgh, PA, USA)
- Geoff Kaufman (Carnegie Mellon University, Pittsburgh, PA, USA)

Paper session: Designing Decision Support
Monday - 11:00 - 12:20  Room: Dochart 1
Chair: Mike Schaekermann
Development of a Checklist for the Prevention of Intradialytic Hypotension in Hemodialysis Care: Design Considerations Based on Activity Theory
- Pei-Yi Kuo (University of Michigan & National Tsing Hua University, Hsinchu City, Taiwan ROC)
- Rajiv Saran (University of Michigan, Ann Arbor, MI, USA)
- Marissa Argentina (National Kidney Foundation, New York, NY, USA)
- Michael Heung (University of Michigan, Ann Arbor, MI, USA)
- Jennifer L. Bragg-Gresham (University of Michigan, Ann Arbor, MI, USA)
- Dinesh Chatoth (Fresenius Medical Care North America, Waltham, MA, USA)
- Brenda Gillespie (University of Michigan, Ann Arbor, MI, USA)
- Sarah Krein (University of Michigan Medical School & Veteran's Health Administration, Ann Arbor, MI, USA)
- Rebecca Wingard (Fresenius Medical Care North America, Waltham, MA, USA)
- Kai Zheng (University of California, Irvine, Irvine, CA, USA)
- Tiffany C. Veinot (University of Michigan, Ann Arbor, MI, USA)
Comparing the Effects of Paper and Digital Checklists on Team Performance in Time-Critical Work
  - Leah Kulp (Drexel University, Philadelphia, PA, USA)
  - Aleksandra Sarcevic (Drexel University, Philadelphia, PA, USA)
  - Megan Cheng (Children's National Medical Center, Washington, DC, USA)
  - Yinan Zheng (Children's National Medical Center, Washington, DC, USA)
  - Randall S. Burd (Children's National Medical Center, Washington, DC, USA)

Cognitive Aids in Acute Care: Investigating How Cognitive Aids Affect and Support In-hospital Emergency

Communication Breakdowns Between Families and Alexa


Teams Honourable Mention
  - Tobias Grundgeiger (Julius-Maximilians-University, Würzburg, Germany)
  - Stephan Huber (Julius-Maximilians-University, Würzburg, Germany)
  - Daniel Reinhardt (Julius-Maximilians-University, Würzburg, Germany)
  - Andreas Steinisch (University Hospital of Würzburg, Würzburg, Germany)
  - Oliver Happel (University Hospital of Würzburg, Würzburg, Germany)
  - Thomas Wurmb (University Hospital of Würzburg, Würzburg, Germany)

Human-Centered Tools for Coping with Imperfect Algorithms During Medical Decision-Making Honourable Mention
  - Carrie J. Cai (Google Brain, Mountain View, CA, USA)
  - Emily Reif (Google Brain, Mountain View, CA, USA)
  - Narayan Hegde (Google Brain, Mountain View, CA, USA)
  - Jason Hipp (Google Brain, Mountain View, CA, USA)
  - Been Kim (Google Brain, Mountain View, CA, USA)
  - Daniel Smilkov (Google Brain, Mountain View, CA, USA)
  - Martin Wattenberg (Google Brain, Mountain View, CA, USA)
  - Fernanda Viegas (Google Brain, Mountain View, CA, USA)
  - Greg S. Corrado (Google Brain, Mountain View, CA, USA)
  - Martin C. Stumpe (Google Brain, Mountain View, CA, USA)
  - Michael Terry (Google Brain, Mountain View, CA, USA)

Patient Perspectives on Self-Management Technologies for Chronic Fatigue Syndrome
  - Tabby Davies (University of Bath, Bath, United Kingdom)
  - Simon L. Jones (University of Bath, Bath, United Kingdom)
  - Ryan M. Kelly (The University of Melbourne, Melbourne, Australia)

"Tricky to get your head around": Information Work of People Managing Chronic Kidney Disease in the UK
  - Eleanor R. Burgess (Northwestern University, Chicago, IL, USA)
  - Madhu C. Reddy (Northwestern University, Evanston, IL, USA)
  - Andrew Davenport (Royal Free Hospital, London, United Kingdom)
  - Paul Laboi (York Teaching Hospital NHS Foundation Trust, York, United Kingdom)
  - Ann Blandford (University College London, London, United Kingdom)

Supporting Communication About Values Between People with Multiple Chronic Conditions and their Providers
  - Andrew B. L. Berry (University of Washington, Seattle, WA, USA)
  - Catherine Y. Lim (Kaiser Permanente Washington Health Research Institute, Seattle, WA, USA)
  - Tad Hirsch (Northeastern University, Boston, MA, USA)
  - Andrea L. Hartzler (University of Washington, Seattle, WA, USA)
  - Linda M. Kiei (Kaiser Permanente Washington Health Research Institute, Seattle, WA, USA)
  - Zoë A. Bermet (Kaiser Permanente Washington Health Research Institute, Seattle, WA, USA)
  - James D. Ralston (Kaiser Permanente Washington Health Research Institute, Seattle, WA, USA)

Facilitating Self-reflection about Values and Self-care Among Individuals with Chronic Conditions
  - Andrew B. L. Berry (University of Washington, Seattle, WA, USA)
  - Andrea L. Hartzler (University of Washington, Seattle, WA, USA)
  - Tad Hirsch (Northeastern University, Boston, MA, USA)
  - David S. Carrell (Kaiser Permanente Washington Health Research Institute, Seattle, WA, USA)
  - Zoë A. Bermet (Kaiser Permanente Washington Health Research Institute, Seattle, WA, USA)
  - James D. Ralston (Kaiser Permanente Washington Health Research Institute, Seattle, WA, USA)

Career Mentoring in Online Communities: Seeking and Receiving Advice from an Online Community
  - Maria Tomprou (Carnegie Mellon University, USA, PA, USA)
  - Laura Dabbish (Carnegie Mellon University, Pittsburgh, PA, USA)
  - Robert E. Kraut (Carnegie Mellon University, Pittsburgh, PA, USA)
  - Fannie Liu (Carnegie Mellon University, Pittsburgh, PA, USA)

What Happens After Disclosing Stigmatized Experiences on Identified Social Media: Individual, Dyadic, and Social/Network Outcomes Honourable Mention
  - Nazanin Andalibi (University of Michigan, Ann Arbor, MI, USA)

Communication Breakdowns Between Families and Alexa
  - Erin Beneteau (University of Washington, Seattle, WA, USA)
  - Olivia K. Richards (Pennsylvania State University, University Park, PA, USA)
Nurturing Constructive Disagreement - Agonistic Design with Neurodiverse Children
- Christopher Frauenberger (TU Wien, Vienna, Austria)
- Katta Spiel (TU Wien, Vienna, Austria)
- Laura Scheepmaker (TU Wien, Vienna, Austria)
- Irene Posch (TU Wien, Vienna, Austria)

Crowdworker Economics in the Gig Economy
- Jason T. Jacques (University of Cambridge, Cambridge, United Kingdom)
- Per Ola Kristensson (University of Cambridge, Cambridge, United Kingdom)

Crowdsourcing Multi-label Audio Annotation Tasks with Citizen Scientists
- Mark Cartwright (New York University, New York, NY, USA)
- Graham Dove (New York University, New York, NY, USA)
- Ana Elisa Mendez Mendez (New York University, New York, NY, USA)
- Juan P. Bello (New York University, New York, NY, USA)
- Oded Nov (New York University, New York, NY, USA)

Navigating Ride-Sharing Regulations: How Regulations Changed the 'Gig' of Ride-Sharing for Drivers in Taiwan
- Anita Chen (Pennsylvania State University, State College, PA, USA)
- Chien-Wen Yuan (Fu Jen University, New Taipei City, Taiwan ROC)
- Ning F. Ma (Pennsylvania State University, State College, PA, USA)
- Chi-Yang Hsu (Pennsylvania State University, State College, PA, USA)
- Benjamin V. Hanrahan (Pennsylvania State University, State College, PA, USA)

Why Do You Need This? Selective Disclosure of Data Among Citizen Scientists
- Anna Rudnicka (University College London, London, United Kingdom)
- Anna L. Cox (University College London, London, United Kingdom)
- Sandy J. J. Gould (University of Birmingham, Birmingham, United Kingdom)

An Exploration of Bitcoin Mining Practices: Miners' Trust Challenges and Motivations
- Irini Eliana Khairuddin (Universiti Teknologi MARA, Shah Alam, Malaysia)
- Corina Sas (Lancaster University, Lancaster, United Kingdom)

Analyzing Value Discovery in Design Decisions Through Ethicography Honourable Mention
- Shrutu Sai Chivukula (Purdue University, West Lafayette, IN, USA)
- Colin M. Gray (Purdue University, West Lafayette, IN, USA)
- Jason A. Brier (Purdue University, West Lafayette, IN, USA)

Autonomous Distributed Energy Systems: Problematising the Invisible through Design, Drama and Deliberation Honourable Mention
- Larissa Pschetz (University of Edinburgh, Edinburgh, United Kingdom)
- Kruakae Pothong (University College London, London, United Kingdom)
- Chris Speed (University of Edinburgh, Edinburgh, United Kingdom)

"Notjustgirls": Exploring Male-related Eating Disordered Content across Social Media Platforms
- Jessica A. Pater (Parkview Research Center & Georgia Institute of Technology, Atlanta, GA, USA)
- Lauren E. Reining (Parkview Research Center, Fort Wayne, IN, USA)
- Andrew D. Miller (Indiana University Purdue University Indianapolis (IUPUI), Indianapolis, IN, USA)
- Tammy Toscos (Parkview Research Center, Fort Wayne, IN, USA)
- Elizabeth D. Mynatt (Georgia Institute of Technology, Atlanta, GA, USA)

Psychologically Inclusive Design: Cues Impact Women's Participation in STEM Education
- Rene F. Kizilcec (Cornell University, Ithaca, NY, USA)
- Andrew J. Saltarelli (Stanford University, Stanford, CA, USA)
Special Interest Group (SIG): Learning, Education and HCI

Monday - 11:00 - 12:20  Room: Island A CROWNE

**Learning, Education, and HCI**
- Benjamin Xie (University of Washington, Seattle, WA, USA)
- Erik Harpstead (Carnegie Mellon University, Pittsburgh, PA, USA)
- Betsy DiSalvo (Georgia Institute of Technology, Atlanta, GA, USA)
- Petr Slovak (King's College London, London, United Kingdom)
- Ahmed Kharrufa (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Michael J. Lee (New Jersey Institute of Technology, Newark, NJ, USA)
- Viktoria Pammer-Schindler (Graz University of Technology, Graz, Austria)
- Amy Ogan (Carnegie Mellon University, Pittsburgh, PA, USA)
- Joseph Jay Williams (University of Toronto, Toronto, Canada)

Monday - 12:20 - 14:00  Room: Hall 5a

Course: Preparing for the Future of HCI by Understanding the Past and Present
- Jonathan Grudin (Microsoft, Redmond, WA, USA)

Monday - 12:20 - 14:00  Room: Forth

Anticipating the Future of HCI by Understanding Its Past and Present
- Jonathan Grudin (Microsoft, Redmond, WA, USA)

Miscellaneous: Speaker prep room

Monday - 14:00 - 15:20  Room: Etive

**SIGCHI Award: Awards - Lifetime Research / Lifetime Practice**
- Monday - 14:00 - 15:20  Room: Forth
- Chair: Gloria Mark

**SIGCHI Lifetime Practice Award Talk The Business of UX**
- Monday - 14:00 - 15:20  Room: Forth
- Daniel J. Rosenberg (San Jose State University, San Jose, CA, USA)

**SIGCHI Lifetime Research Award Talk: Making Digital Tangible**
- Monday - 14:00 - 15:20  Room: Forth
- Hiroshi Ishii (Massachusetts Institute of Technology, Cambridge, MA, USA)

**Case study session: New Perspectives**
- Monday - 14:00 - 15:20  Room: Argyll 1 CROWNE
- Chair: Shannon Holloway

- **Participatory Design of a Virtual Reality-Based Reentry Training with a Women’s Prison**
  - Melissa Qingqing Teng (Emerson College, Boston, MA, USA)
  - James Hodge (Newcastle University, Newcastle upon Tyne, United Kingdom)
  - Eric Gordon (Emerson College, Boston, MA, USA)

- **A Change of Perspective: Designing the Automated Vehicle as a New Social Actor in a Public Space**
  - Lenja Sorokin (BMW Group, Munich, Germany)
  - Ronee Chadowitz (BMW Group, Garching, Germany)
  - Nina Kauffmann (BMW Group, Munich, Germany)

- **Understanding Abusive Behaviour Between Online and Offline Group Discussions**
  - Abdulwhab Alkharashi (University of Glasgow, Glasgow, United Kingdom)
  - Joemon Jose (University of Glasgow, Glasgow, United Kingdom)
  - Andrew Hoskins (University of Glasgow, Glasgow, United Kingdom)
  - Catherine Happer (University of Glasgow, Glasgow, United Kingdom)

- **Lab Hackathons to Overcome Laboratory Equipment Shortages in Africa: Opportunities and Challenges**
  - Helena Webb (University of Oxford, Oxford, United Kingdom)
  - Jason R.C. Nurse (University of Kent, Canterbury, United Kingdom)
  - Louise Bezuidenhout (University of Oxford, Oxford, United Kingdom)
  - Marina Jirotk (University of Oxford, Oxford, United Kingdom)

**Competition: Student Design Competition**
- Monday - 14:00 - 15:20  Room: Island B CROWNE
- SDC01: NeighBoard: Facilitating Community Policing with Embodied Tech Design
  - Crystal Compton (University of Minnesota, Saint Paul, MN, USA)
  - Ellen Dupler (University of Minnesota, Minneapolis, MN, USA)
  - J. Walter Lee (University of Minnesota, Saint Paul, MN, USA)

- SDC02: Co ed: A Classroom Setup for Enhancing Cooperative Learning and Digital Literacy
  - Anand Kishore (National Institute of Design, Gandhinagar, India)
  - Oletus V. Joseph (National Institute of Design, Gandhinagar, India)
  - Lamha Bijili (National Institute of Design, Gandhinagar, India)
  - Md. Aasif Anwar (National Institute of Design, Gandhinagar, India)
  - Urvi (National Institute of Design, Gandhinagar, India)

- SDC03: Drawxi: An Accessible Drawing Tool for Collaboration
  - Suraj Chiplunkar (Indiana University, Bloomington, IN, USA)
  - Anany Maini (Indiana University, Bloomington, IN, USA)
  - Dinesh Ram (Indiana University, Bloomington, IN, USA)
  - Zixuan Zheng (Indiana University, Bloomington, IN, USA)
  - Yaxin Zheng (Indiana University Bloomington, Bloomington, IN, USA)

- SDC04: Shadoji: View Body Shapes from a Different Angle
  - Xuan Jin (University of Michigan, Ann Arbor, MI, USA)
  - Peipei Nie (University of Michigan, Ann Arbor, MI, USA)
Xizi Wang (University of Michigan, Ann Arbor, MI, USA)
Zhuo Wang (University of Michigan, Ann Arbor, MI, USA)
Chunying Zhang (University of Michigan, Ann Arbor, MI, USA)

SDC05: Give Me a Break: Design for Communication Among Family Caregivers and Respite Caregivers
- Flannery Currin (Earlham College, Richmond, IN, USA)
- Gustavo Razo (University of California, Merced, CA, USA)
- Aehong Min (Indiana University Bloomington, Bloomington, IN, USA)

SDC06: Amor: Supporting Emerging Adult Couples to Manage Finances for a Common Goal
- Mintra Ruensuk (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Jayeong Yoon (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Cho eun Park (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)

SDC07: SENTI?? Reconnect with Yourself to Better Connect with Others
- Audrey Drolet (Université Laval, Québec, Canada)
- Thomas Lemonde-Marzell (Université Laval, Québec, Canada)
- Pablo Matos Da Silva (Université Laval, Québec, Canada)
- Kim Lamontagne (Université Laval, Québec, Canada)
- Marjorie Bédard (Université Laval, Québec, Canada)

SDC08: Haptic Remembrance Book Series
- Elaine Czech (Keio University, Yokohama, Japan)
- Mina Shibasaki (Keio University, Yokohama, Japan)
- Keitaro Tsuchiya (Keio University, Yokohama, Japan)

SDC09: HelloBox: Creating Safer and Kid-friendly Communities
- Tab Zhang (University of Minnesota, Minneapolis, MN, USA)
- Yongle Zhang (University of Minnesota, Minneapolis, MN, USA)
- Leyi Sun (University of Minnesota, Minneapolis, MN, USA)
- Lily Dunk (University of Minnesota, Minneapolis, MN, USA)

SDC10: HearU: An Integrated System to Raise Awareness of Hearing Loss
- Beijia Wang (University of Washington, Seattle, WA, USA)
- Mengxiao Song (University of Washington, Seattle, WA, USA)
- Yuting Han (University of Washington, Seattle, WA, USA)
- Duo Wang (University of Washington, Seattle, WA, USA)

SDC11: PALS: Patching ALS through Crowdsourced Advice, Social Links & Public Awareness
- Richard Cave (University College London, London, United Kingdom)
- Karina Kocemba (University College London, London, United Kingdom)
- Svjetlana Dajic (University College London, London, United Kingdom)
- Hollie Bostock (University College London, London, United Kingdom)
- Alastair Cook (University College London, London, United Kingdom)

SDC12: TechBuddies: Engaging Students to Teach Retirees about Technology
- Jim Philippe Neussl (University College London, London, United Kingdom)
- Rebecca Zheng (University College London, London, United Kingdom)
- George Hanson (University College London, London, United Kingdom)
- Boyin Yang (University College London, London, United Kingdom)

Course: Sketching in HCI: Hands-on Course of Sketching Techniques
- Monday - 14:00 - 15:20
  Room: Castle 1 CROWNE
  - Makayla Lewis (Brunel University London, London, United Kingdom)
  - Miriam Sturdee (University of Calgary, Canada)
  - Nicolai Marquardt (University College London, London, United Kingdom)

Course: Empirical Research Methods for Human-Computer Interaction
- Monday - 14:00 - 15:20
  Room: Argyll 2 CROWNE
  - I. Scott MacKenzie (York University, Toronto, Canada)
  - Steven J. Castellucci (Amazon, Toronto, Canada)

Course: Introduction to Human-Computer Interaction
- Monday - 14:00 - 15:20
  Room: Argyll 3 CROWNE
  - Jonathan Lazar (University of Maryland, College Park, MD, USA)
  - Simone Diniz Junqueira Barbosa (PUC-Rio, Rio de Janeiro, Brazil)

Course: Professional Presentation Training: Improve the User Experience of your CHI Presentation
- Monday - 14:00 - 15:20
  Room: Castle 3 CROWNE
  - Ash Brown (Bloomberg L.P., New York, USA)
  - Anthony Viviano (Bloomberg L.P., New York, USA)

Course: How to Write CHI Papers (Third Edition)
- Monday - 14:00 - 15:20
  Room: Castle 2 CROWNE
  - Lennart E. Nacke (University of Waterloo, Canada)

Miscellaneous: Speaker prep room
- Monday - 14:00 - 15:20
  Room: Etive

Paper session: Accessible Content Creation
- Monday - 14:00 - 15:20
  Room: Dohchart 1

Chair: Pardis Emami-Naeini

Printer Pals: Experience-Centered Design to Support Agency for People with Dementia Honourable Mention
- Sarah Foley (University College Cork, Cork, Ireland)
- Daniel Welsh (Newcastle University, Newcastle Upon Tyne, United Kingdom)
- Nadia Pantidi (University College Cork, Cork, Ireland)
Towards Enabling Blind People to Independently Write on Printed Forms
- Shirin Feiz (Stony Brook University, Stony Brook, NY, USA)
- Syed Masum Billah (Stony Brook University, Stony Brook, NY, USA)
- Vikas Ashok (Stony Brook University, Stony Brook, NY, USA)
- Roy Shilkrot (Stony Brook University, Stony Brook, NY, USA)
- IV Ramakrishnan (Stony Brook University, Stony Brook, NY, USA)

ALAP: Accessible LaTeX Based Mathematical Document Authoring and Presentation
- Atshash Manzoor (Lahore University of Management Sciences, Lahore, Pakistan)
- Safa Arooj (Lahore University of Management Sciences, Lahore, Pakistan)
- Shaban Zulfiqar (Lahore University of Management Sciences, Lahore, Pakistan)
- Murayyiam Parvez (Lahore University of Management Sciences, Lahore, Pakistan)
- Suleman Shahid (Lahore University of Management Sciences, Lahore, Pakistan)
- Asim Karim (Lahore University of Management Sciences, Lahore, Pakistan)

Design and Evaluation of a Social Media Writing Support Tool for People with Dyslexia
- Shaomei Wu (Facebook, Menlo Park, CA, USA)
- Lindsay Reynolds (Facebook, Menlo Park, CA, USA)
- Xian Li (Facebook, Menlo Park, CA, USA)
- Francisco Guzman (Facebook, Menlo Park, CA, USA)

LocknType: Lockout Task Intervention for Discouraging Smartphone App Use
- Jaejeung Kim (Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)
- Joonyoung Park (Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)
- Hyunsoo Lee (Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)
- Minsam Ko (Hanyang University, Seoul, Republic of Korea)
- Uichin Lee (Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)
Diagnosing and Coping with Mode Errors in Korean-English Dual-language Keyboard  
- Sangyoon Lee (Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)  
- Jaeyeon Lee (Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)  
- Geehyuk Lee (Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)

Paper session: Designing for Public Spaces  
Monday - 14:00 - 15:20  
Room: Alsh 2  
Chair: Arthi Manohar

Spaces and Traces: Implications of Smart Technology in Public Housing  
- Sandjar Kozubaev (Georgia Institute of Technology, Atlanta, GA, USA)  
- Fernando Rochaix (Georgia Statue University, Atlanta, GA, USA)  
- Carl DiSalvo (Georgia Institute of Technology, Atlanta, GA, USA)  
- Christopher A. Le Dantec (Georgia Institute of Technology, Atlanta, GA, USA)

My Naturewatch Camera: Disseminating Practice Research with a Cheap and Easy DIY Design  
- William Gaver (Goldsmiths, University of London, London, United Kingdom)  
- Andy Boucher (Goldsmiths, University of London, London, United Kingdom)  
- Michail Vanis (Goldsmiths, University of London, London, United Kingdom)  
- Dean Brown (Goldsmiths, University of London, London, United Kingdom)  
- Liliana Ovalle (Goldsmiths, University of London, London, United Kingdom)  
- Naho Matsuda (Goldsmiths, University of London, London, United Kingdom)  
- Amina Abbas-Nazari (Royal College of Art, London, United Kingdom)  
- Robert Phillips (Royal College of Art, London, United Kingdom)

Life-Affirming Biosensing in Public: Sounding Heartbeats on a Red Bench  
- Noura Howell (University of California, Berkeley, Berkeley, CA, USA)  
- Greg Niemeyer (University of California, Berkeley, Berkeley, CA, USA)  
- Kimiko Ryokai (University of California, Berkeley, Berkeley, CA, USA)

City Explorer: The Design and Evaluation of a Location-Based Community Information System  
- Carolyn Pang (Simon Fraser University, Surrey, Canada)  
- Rui Pan (Simon Fraser University, Surrey, Canada)  
- Carman Neustaedter (Simon Fraser University, Surrey, Canada)  
- Kate Hennessy (Simon Fraser University, Surrey, Canada)

Paper session: Designing with Materials  
Monday - 14:00 - 15:20  
Room: Boisdale 1  
Chair: Alexandra Ion

"Beautiful Seams": Strategic Revelations and Concealments Honourable Mention  
- Sarah Inman (University of Washington, Seattle, WA, USA)  
- David Ribes (University of Washington, Seattle, WA, USA)

Designing for the Infrastructure of the Supply Chain of Malay Handwoven Songket in Terengganu Honourable Mention  
- Min Zhang (Lancaster University, Lancaster, United Kingdom)  
- Corina Sas (Lancaster University, Lancaster, United Kingdom)  
- Zoe Lambert (Lancaster University, Lancaster, United Kingdom)  
- Masitah Ahmad (Universiti Teknologi MARA, Shah Alam, Malaysia)

Multi-plié: A Linear Foldable and Flattenable Interactive Display to Support Efficiency, Safety and Collaboration  
- Sylvain Pauchet (University of Toulouse - ENAC & Astrolab, Toulouse, France)  
- Jean-Luc Vinot (University of Toulouse - ENAC, Toulouse, France)  
- Catherine Letondal (University of Toulouse - ENAC, Toulouse, France)  
- Alexandre Lemort (Ingenuity i/o, Ramonville Saint-Agne, France)  
- Claire Lavenir (Intactile Design, Montpellier, France)  
- Timothée Lecomte (University of Toulouse - ENAC, Toulouse, France)  
- Stéphanie REY (Berger-Levrault, Toulouse, France)  
- Valentin Becquet (University of Toulouse - ENAC, Toulouse, France)  
- Guillaume Crouzet (University of Toulouse - ENAC, Toulouse, France)

ElectroDermis: Fully Untethered, Stretchable, and Highly-Customizable Electronic Bandages  
- Eric Markwicka (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Guanyun Wang (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Yi-Chin Lee (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Gierad Laput (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Carmel Majidi (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Lining Yao (Carnegie Mellon University, Pittsburgh, PA, USA)

Paper session: Direct Bodily Interaction  
Monday - 14:00 - 15:20  
Room: Clyde Auditorium  
Chair: Ana Tajadura-Jiménez

Preemptive Action: Accelerating Human Reaction using Electrical Muscle Stimulation Without Compromising Agency  
- Shunichi Kasahara (Sony CSL & University of Tokyo, Tokyo, Japan)  
- Jun Nishida (University of Chicago, Chicago, IL, USA)  
- Pedro Lopes (University of Chicago, Chicago, IL, USA)
Cewilt. An Intraoral Interface for Discreet Interactions *Honourable Mention*
- Pablo Gallego Cascón (The University of Auckland, Auckland, New Zealand)
- Denys J.C. Matthias (Auckland Bioengineering Institute, Auckland, New Zealand)
- Sachith Muthukumarana (The University of Auckland, Auckland, New Zealand)
- Suranga Nanayakkara (Auckland Bioengineering Institute, The University of Auckland, Auckland, New Zealand)

**Magnetact: Magnetic-sheet-based Haptic Interfaces for Touch Devices**
- Monday - 14:00 - 15:20
- Room: Hall 1
- Chair: Seongkook Heo

**Multilayer Haptic Feedback for Pen-Based Tablet Interaction**
- Ernst Kruijff (Simon Fraser University & University of Applied Sciences Bonn-Rhein-Sieg, Sankt Augustin, Germany)
- Saugata Biswas (Bonn-Rhein-Sieg University of Applied Sciences, Sankt Augustin, Germany)
- Christina Trepkowski (Institute of Visual Computing, Sankt Augustin, Germany)
- Jens Maiero (Institute of Visual Computing, Sankt Augustin, Germany)
- George Ghinea (Brunel University London, London, United Kingdom)
- Wolfgang Stuerzlinger (Simon Fraser University, Vancouver, Canada)

**HaptiVec: Presenting Haptic Feedback Vectors in Handheld Controllers using Embedded Tactile Pin Arrays**
- Daniel K.Y. Chen (Shanghai Jiao Tong University, Shanghai, China)
- Jean-Baptiste Chossat (Shanghai Jiao Tong University, Shanghai, China)
- Peter B. Shull (Shanghai Jiao Tong University, Shanghai, China)

**Aarnio: Passive Kinesthetic Force Output for Foreground Interactions on an Interactive Chair**
- Shayan Pashazadeh (National Taiwan University, Taipei, Taiwan ROC)
- Da-Yuan Huang (National Chiao Tung University, Hsinchu, Taiwan ROC)
- Chi Wang (National Taiwan University of Science and Technology, Taipei, Taiwan ROC)
- Jun Gong (Dartmouth College, Hanover, NH, USA)
- Teddy Seyed (University of Calgary, Calgary, Canada)
- Xing-Dong Yang (Dartmouth College, Hanover, NH, USA)
- Bing-Yu Chen (National Taiwan University, Taipei, Taiwan ROC)

**Clench Interface: Novel Biting Input Techniques**
- Xuhai Xu (University of Washington & Tsinghua University, Seattle, WA, USA)
- Chun Yu (Tsinghua University, Beijing, China)
- Anind K. Dey (University of Washington, Seattle, WA, USA)
- Jennifer Mankoff (University of Washington, Seattle, WA, USA)

**Interferi: Gesture Sensing using On-Body Acoustic Interferometry *Honourable Mention***
- Yashar Iravantchi (Carnegie Mellon University, Pittsburgh, PA, USA)
- Yang Zhang (Carnegie Mellon University, Pittsburgh, PA, USA)
- Evi Bernitsas (Carnegie Mellon University, Pittsburgh, PA, USA)
- Mayank Goel (Carnegie Mellon University, Pittsburgh, PA, USA)
- Chris Harrison (Carnegie Mellon University, Pittsburgh, PA, USA)

**Communication Cost of Single-user Gesturing Tool in Laparoscopic Surgical Training**
- Yuanxuan Feng (University of Maryland, Baltimore County, Baltimore, MD, USA)
- Katie Li (Pomona College, Claremont, CA, USA)
- Azin Semsar (University of Maryland, Baltimore County, Baltimore, MD, USA)
- Hannah McGowan (University of Maryland, Baltimore County, Baltimore, MD, USA)
- Jacqueline Mun (Vassar College, Poughkeepsie, NY, USA)
- H. Reza Zahiri (Anne Arundel Medical Center, Annapolis, MD, USA)
- Ivan George (Johns Hopkins University, Baltimore, MD, USA)
- Adrian Park (Anne Arundel Medical Center, Annapolis, MD, USA)
- Andrea Kleinsmith (University of Maryland, Baltimore County, Baltimore, MD, USA)
- Helena M. Mentis (University of Maryland, Baltimore County, Baltimore, MD, USA)

**An Autonomy-Perspective on the Design of Assistive Technology Experiences of People with Multiple Sclerosis**
- Florian Güldenpenning (New Design University and Technische Universität Wien, St. Pölten/Vienna, Austria)
- Peter Mayer (Technische Universität Wien, Vienna, Austria)
- Paul Panek (Technische Universität Wien, Vienna, Austria)
- Geraldine Fitzpatrick (Technische Universität Wien, Vienna, Austria)

**Exploring the Opportunities for Technologies to Enhance Quality of Life with People who have Experienced Vision Loss**
- Rachel Bartlett (University of Iowa, Iowa City, IA, USA)
- Yi Xuan Khoo (University of Iowa, Iowa City, IA, USA)
- Juan Pablo Hourcade (University of Iowa, Iowa City, IA, USA)
- Kyle K. Rector (University of Iowa, Iowa City, IA, USA)

**Seekers, Providers, Welcomers, and Storytellers: Modeling Social Roles in Online Health Communities *Honourable Mention***
- Diyi Yang (Carnegie Mellon University, Pittsburgh, PA, USA)
- Robert E. Kraut (Carnegie Mellon University, Pittsburgh, PA, USA)
- Tenbroeck Smith (American Cancer Society, Inc., Atlanta, GA, USA)
- Elijah Mayfield (Carnegie Mellon University, Pittsburgh, PA, USA)
- Dan Jurafsky (Stanford University, Stanford, CA, USA)

Paper session: Empathy, Emotion, and Intimate Relationships
Monday - 14:00 - 15:20  Room: Carron 2
Chair: Xiaojuan Ma

Augmenting Couples' Communication with Lifelines: Shared Timelines of Mixed Contextual Information
- Carla F. Griggio (University Paris-Sud, CNRS, Inria & Université Paris-Saclay, Orsay, France)
- Midas Nouwens (Aarhus University & University Paris-Sud, CNRS, Inria, Université Paris-Saclay, Aarhus, Denmark)
- Joanna McGrenere (University of British Columbia & University Paris-Sud, CNRS, Inria, Université Paris-Saclay, Vancouver, Canada)
- Wendy E. Mackay (Inria & Université Paris-Saclay, Paris, France)

Understanding Digitally-Mediated Empathy: An Exploration of Visual, Narrative, and Biosensory Informational Cues
- Max T. Curran (University of California, Berkeley, Berkeley, CA, USA)
- Jeremy Raboff Gordon (University of California, Berkeley, Berkeley, CA, USA)
- Lily Lin (University of California, Berkeley, Berkeley, CA, USA)
- Priyashri Kamlesh Sridhar (Singapore University of Technology and Design, Singapore, Singapore)
- John Chuang (University of California, Berkeley, Berkeley, CA, USA)

Reveal: Investigating Proactive Location-Based Reminiscing with Personal Digital Photo Repositories
Honourable Mention
- David McGookin (Aalto University, Espoo, Finland)

Emotional Utility and Recall of the Facebook News Feed
Honourable Mention
- Pawarat Nontasil (University of Bath, Bath, United Kingdom)
- Stephen J. Payne (University of Bath, Bath, United Kingdom)

Paper session: UX Theory
Monday - 14:00 - 15:20  Room: Boisdale 2
Chair: Jörn Hurtienne

Sensory Alignment in Immersive Entertainment
- Joe Marshall (University of Nottingham, Nottingham, United Kingdom)
- Steve Benford (University of Nottingham, Nottingham, United Kingdom)
- Richard Byrne (RMIT University, Melbourne, Australia)
- Paul Tennent (University of Nottingham, Nottingham, United Kingdom)

A Framework for the Experience of Meaning in Human-Computer Interaction
Best Paper Award
- Elisa D. Mekler (University of Basel, Basel, Switzerland)
- Kasper Hornbæk (University of Copenhagen, Copenhagen, Denmark)

Understanding the Impact of Information Representation on Willingness to Share Information
- Stefan Schneegass (University of Duisburg-Essen, Essen, Germany)
- Romina Poguntke (University of Stuttgart, Stuttgart, Germany)
- Tonja Machulla (LMU Munich, Munich, Germany)

Making Sense of Human-Food Interaction
- Ferran Altarriba Bertran (University of California, Santa Cruz, Santa Cruz, CA, USA)
- Samvid Jhaveri (University of California, Santa Cruz, Santa Cruz, CA, USA)
- Paris-Saclay (University of California, Santa Cruz, Santa Cruz, CA, USA)
- Katherine Isbister (University of California, Santa Cruz, Santa Cruz, CA, USA)
- Danielle Wilde (University of Southern Denmark, Kolding, Denmark)

Paper session: Crowdsourcing and Peer Production
Monday - 14:00 - 15:20  Room: Gala
Chair: Yun Huang

Monotasking or Multitasking: Designing for Crowdworkers' Preferences
- Laura Lascou (University College London, London, United Kingdom)
- Sandy J. J. Gould (University of Birmingham, Birmingham, United Kingdom)
- Anna L. Cox (University College London, London, United Kingdom)
- Elizaveta Karmannaya (University College London, London, United Kingdom)
- Duncan P. Brumby (University College London, London, United Kingdom)

Cicero: Multi-Turn, Contextual Argumentation for Accurate Crowdsourcing
- Quanze Chen (University of Washington, Seattle, WA, USA)
- Jonathan Bragg (University of Washington, Seattle, WA, USA)
- Lydia B. Chilton (Columbia University, New York, NY, USA)
- Dan S. Weld (University of Washington, Seattle, WA, USA)

Rehumanized Crowdsourcing: A Labeling Framework Addressing Bias and Ethics in Machine Learning
- Natália M. Barbosa (Syracuse University & Figure Eight Inc., Syracuse, NY, USA)
- Monchu Chen (Figure Eight Technologies, INC., San Francisco, CA, USA)

The Gendered Geography of Contributions to OpenStreetMap: Complexities in Self-Focus Bias
- Mairatye Das (Northwestern University, Evanston, IL, USA)
- Brent Hecht (Northwestern University, Evanston, IL, USA)
- Darren Gergle (Northwestern University, Evanston, IL, USA)

Paper session: Privacy and Sensitive Personal Data
Monday - 14:00 - 15:20  Room: Dochart 2
Chair: Jill Palzkill Woelfer
Signal Appropriation of Explicit HIV Status Disclosure Fields in Sex-Social Apps used by Gay and Bisexual Men

- Mark Warner (University College London, London, United Kingdom)
- Juan Fernando Maestre (Indiana University Bloomington, Bloomington, IN, USA)
- Jo Gibbs (University College London, London, United Kingdom)
- Chia-Fang Chung (Indiana University, Bloomington, IN, USA)
- Ann Blandford (University College London, London, United Kingdom)

Local Standards for Anonymization Practices in Health, Wellness, Accessibility, and Aging Research at CHI Honourable Mention

- Jacob Abbott (Indiana University Bloomington, Bloomington, IN, USA)
- Haley MacLeod (Indiana University Bloomington, Bloomington, IN, USA)
- Novia Nurain (Indiana University Bloomington, Bloomington, IN, USA)
- Gustave Ekbo (Indiana University Bloomington, Bloomington, IN, USA)
- Sameer Patil (Indiana University Bloomington, Bloomington, IN, USA)

Emotion and Experience in Negotiating HIV-Related Digital Resources: "It's not just a runny nose!"

- Aneesha Singh (University College London, London, United Kingdom)
- Jo Gibbs (University College London, London, United Kingdom)
- Ann Blandford (University College London, London, United Kingdom)

"This Girl is on Fire" Sensemaking in an Online Health Community for Vulvodynia Honourable Mention

- Alyson L. Young (Indiana University-Purdue University Indianapolis, Indianapolis, IN, USA)
- Andrew D. Miller (Indiana University-Purdue University Indianapolis, Indianapolis, IN, USA)

Neighborhood Perception in Bar Charts

- Mingqian Zhao (Hong Kong University of Science and Technology, Hong Kong, China)
- Huamin Qu (The Hong Kong University of Science and Technology, Hong Kong, China)
- Michael Sedlmair (University of Stuttgart, Stuttgart, Germany)

Ranked-List Visualization: A Graphical Perception Study

- Pranathi Mylavarapu (University of Maryland, College Park, College Park, MD, USA)
- Adil Yalcin (Keshif, LLC., Alexandria, VA, USA)
- Xan Gregg (SAS Institute, Inc., Cary, NC, USA)
- Niklas Elmqvist (University of Maryland, College Park, College Park, MD, USA)

Saliency Deficit and Motion Outlier Detection in Animated Scatterplots Honourable Mention

- Rafael Veras (University of Ontario Institute of Technology, Oshawa, Canada)
- Christopher Collins (University of Ontario Institute of Technology, Oshawa, Canada)

Measuring the Separability of Shape, Size, and Color in Scatterplots

- Stephen Smart (University of Colorado Boulder, Boulder, CO, USA)
- Danielle Albers Szafir (University of Colorado Boulder, Boulder, CO, USA)

Special Interest Group (SIG): MatHealthXB: Designing Across Borders for Global Maternal Health

- Annu Sible Prabhakar (University of Cincinnati & Indiana University, Bloomington, IN, USA)
- Nikki Newhouse (University College London, London, United Kingdom)
- Emma Simpson (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Nova Ahmed (North South University, Dhaka, Bangladesh)
- Yunan Chen (University of California, Irvine, Irvine, CA, USA)

Monday - 16:00 - 17:20

SIGCHI Award: Awards - Best Thesis

- Kristina Höök

SIGCHI Outstanding Dissertation Award: A Quantified Past

- Chris Elsden (Northumbria University, Newcastle upon Tyne, United Kingdom)

SIGCHI Outstanding Dissertation Award: Assignment Problems for Optimizing Text Input

- Anna Maria Feit (ETH Zurich, Zurich, Switzerland)

SIGCHI Outstanding Dissertation Award: On-World Computing

- Robert Xiao (University of British Columbia, Vancouver, Canada)
- I. Scott MacKenzie (York University, Toronto, Canada)
- Steven J. Castellucci (Amazon, Toronto, Canada)
Course: Introduction to Human-Computer Interaction
Monday - 16:00 - 17:20  
Room: Argyll 3 CROWNE  
- Jonathan Lazar (University of Maryland, College Park, MD, USA)  
- Simone Diniz Junqueira Barbosa (PUC-Rio, Rio de Janeiro, Brazil)

Course: Professional Presentation Training: Improve the User Experience of your CHI Presentation
Monday - 16:00 - 17:20  
Room: Castle 3 CROWNE  
- Ash Brown (Bloomberg L.P., New York, NY, USA)  
- Anthony Viviano (Bloomberg L.P., New York, NY, USA)

Course: How to Write CHI Papers (Third Edition)
Monday - 16:00 - 17:20  
Room: Castle 2 CROWNE  
- Lennart E. Nacke (University of Waterloo, Waterloo, Canada)

Miscellaneous: Speaker prep room
Monday - 16:00 - 17:20  
Room: Etive

Panel: SIGCHI Research Ethics Town Hall
Monday - 16:00 - 17:20  
Room: Argyll 1 CROWNE  
- Cosmin Munteanu (University of Toronto Mississauga, Mississauga, Canada)  
- Amy Bruckman (Georgia Institute of Technology, Atlanta, GA, USA)  
- Michael Muller (IBM Research, Cambridge, MA, USA)  
- Christopher Frauenberger (Technische Universität Wien, Vienna, Austria)  
- Casey Fiesler (University of Colorado Boulder, Boulder, CO, USA)  
- Robert E. Kraut (Carnegie Mellon University, Pittsburgh, PA, USA)  
- Katie Shilton (University of Maryland, College Park, MD, USA)  
- Jenny Waycott (University of Melbourne, Melbourne, Australia)

Paper session: Self-tracking for Health
Monday - 16:00 - 17:20  
Room: Carron 1  
Chair: Chia-Fang Chung  
Personal Health Oracle: Explorations of Personalized Predictions in Diabetes Self-Management  
- Pooja M. Desai (Columbia University Teachers College, New York, NY, USA)  
- Elliot G. Mitchell (Columbia University Medical Center, New York, NY, USA)  
- Maria L. Hwang (Fashion Institute of Technology, New York, NY, USA)  
- Matthew E. Levine (California Institute of Technology, Pasadena, CA, USA)  
- David J. Albers (University of Colorado Medicine; Columbia University Medical Center, Aurora; New York, CO; NY, USA)  
- Lena Mamykina (Columbia University Medical Center, New York, NY, USA)

Communicating Uncertainty in Fertility Prognosis  
- Hanna Schneider (Ludwig Maximilian University of Munich, Munich, Germany)  
- Julia Wayrauther (Ludwig Maximilian University of Munich, Munich, Germany)  
- Mariam Hassib (Bundeswehr University Munich, Munich, Germany)  
- Andreas Butz (Ludwig Maximilian University of Munich, Munich, Germany)

A Wee Bit More Interaction: Designing and Evaluating an Overactive Bladder App  
- Ana-Maria Salai (Heriot-Watt University, Edinburgh, United Kingdom)  
- Lynne Baillie (Heriot-Watt University, Edinburgh, United Kingdom)

"My blood sugar is higher on the weekends": Finding a Role for Context and Context-Awareness in the Design of Health Self-Management Technology Honourable Mention  
- Shriti Raj (University of Michigan, Ann Arbor, MI, USA)  
- Kelsey Toporski (University of Michigan, Ann Arbor, MI, USA)  
- Ashley Garrity (University of Michigan, Ann Arbor, MI, USA)  
- Joyce M. Lee (University of Michigan, Ann Arbor, MI, USA)  
- Mark W. Newman (University of Michigan, Ann Arbor, MI, USA)

Paper session: Sound-based Interaction
Monday - 16:00 - 17:20  
Room: Clyde Auditorium  
Chair: Jennifer Thom
SottoVoce: An Ultrasound Imaging-Based Silent Speech Interaction Using Deep Neural Networks Honourable Mention  
- Naoki Kimura (The University of Tokyo, Bunkyo-ku, Japan)  
- Michinari Kono (The University of Tokyo, Bunkyo-ku, Japan)  
- Jun Rekimoto (The University of Tokyo & Sony Computer Science Laboratories, Inc., Bunkyo-ku, Japan)

VoiceAssist: Guiding Users to High-Quality Voice Recordings  
- Prem Seetharaman (Northwestern University, Evanston, IL, USA)  
- Gautham Mysore (Adobe Research, San Francisco, CA, USA)  
- Bryan Pardo (Northwestern University, Evanston, IL, USA)  
- Paris Smaragdis (University of Illinois at Urbana Champaign, Urbana, IL, USA)  
- Celso Gomes (Adobe Research, Seattle, WA, USA)

Vocal Shortcuts for Creative Experts  
- Yea-Seul Kim (University of Washington, Seattle, WA, USA)  
- Mira Dontcheva (Adobe Research, Seattle, WA, USA)  
- Eytan Adar (University of Michigan, Ann Arbor, MI, USA)  
- Jessica Hullman (Northwestern University, Evanston, IL, USA)

VARI-SOUND: A Varifocal Lens for Sound  
- Gianluca Memoli (University of Sussex, Brighton, United Kingdom)  
- Letizia Chisari (University of Sussex, Brighton, United Kingdom)  
- Jonathan P. Eccles (University of Sussex, Brighton, United Kingdom)
- Mihai Caleap (University of Bristol, Bristol, United Kingdom)
- Bruce W. Drinkwater (University of Bristol, Bristol, United Kingdom)
- Sriram Subramanian (University of Sussex, Brighton, United Kingdom)

Paper session: Tech for Education

Monday - 16:00 - 17:20  Room: Dochart 1

Chair: Charalampos Kyfonidis

Engaging High School Students in Cameroon with Exam Practice Quizzes via SMS and WhatsApp
- Anthony Poon (Cornell University, New York, NY, USA)
- Sarah Giroux (Cornell University, Ithaca, NY, USA)
- Parfait Eloundou-Enyegue (Cornell University, Ithaca, NY, USA)
- Francois Guimbretiere (Cornell University, Ithaca, NY, USA)
- Nicola Dell (Cornell Tech, New York, NY, USA)

Voice-Based Quizzes for Measuring Knowledge Retention in Under-Connected Populations
- Agha Ali Raza (Information Technology University, Lahore, Pakistan)
- Zain Tariq (Information Technology University, Lahore, Pakistan)
- Shan Randhawa (Information Technology University, Lahore, Pakistan)
- Bilal Saleem (Information Technology University, Lahore, Pakistan)
- Awaïs Athar (European Bioinformatics Institute (EMBL-EBI), Cambridge, United Kingdom)
- Umar Saim (Information Technology University, Lahore, Pakistan)
- Roni Rosenfeld (Carnegie Mellon University, Pittsburgh, PA, USA)

Freedom to Personalize My Digital Classroom: Understanding Teachers’ Practices and Motivations
- Laton Vermette (Simon Fraser University, Burnaby, Canada)
- Joanna McGrenere (University of British Columbia, Vancouver, Canada)
- Colin Birge (Microsoft Corporation, Vancouver, Canada)
- Adam Kelly (Microsoft Corporation, Vancouver, Canada)
- Parmit K. Chilana (Simon Fraser University, Burnaby, Canada)

Designing Interactive 3D Printed Models with Teachers of the Visually Impaired
- Lei Shi (Cornell University, Ithaca, NY, USA)
- Holly Lawson (Portland State University, Portland, OR, USA)
- Zhuohao Zhang (Zhejiang University, Hangzhou, China)
- Shiri Azenkot (Cornell University & Cornell Tech, New York, NY, USA)

Paper session: Algorithms and UX

Monday - 16:00 - 17:20  Room: Dochart 2

Chair: Carrie J. Cai

How Users Interpret Bugs in Trigger-Action Programming
- Will Brackenbury (University of Chicago, Chicago, IL, USA)
- Abhimanyu Deora (University of Chicago, Chicago, IL, USA)
- Jillian Ritchey (University of Chicago, Chicago, IL, USA)
- Jason Vallee (University of Chicago, Chicago, IL, USA)
- Weijia He (University of Chicago, Chicago, IL, USA)
- Guan Wang (Brown University, Providence, RI, USA)
- Michael L. Littman (Brown University, Providence, RI, USA)
- Blase Ur (University of Chicago, Chicago, IL, USA)

Evaluating the Effect of Feedback from Different Computer Vision Processing Stages: A Comparative Lab Study
- Jacob Kittley-Davies (University of Southampton, Southampton, United Kingdom)
- Ahmed Alqaraawi (University College London, London, United Kingdom)
- Rayoung Yang (University College London, London, United Kingdom)
- Enrico Costanza (University College London, London, United Kingdom)
- Alex Rogers (University of Oxford, Oxford, United Kingdom)
- Sebastian Stein (University of Southampton, Southampton, United Kingdom)

Guidelines for Human-AI Interaction
- Saleema Amershi (Microsoft, Seattle, WA, USA)
- Dan Weld (University of Washington & Microsoft Research, Seattle, WA, USA)
- Mihaela Vorvoreanu (Microsoft, Redmond, WA, USA)
- Adam Fourney (Microsoft, Redmond, WA, USA)
- Besmira Nushi (Microsoft, Redmond, WA, USA)
- Penny Collisson (Microsoft, Redmond, WA, USA)
- Jina Suh (Microsoft, Remond, WA, USA)
- Shamsi Iqbal (Microsoft, Redmond, WA, USA)
- Paul N. Bennett (Microsoft, Redmond, WA, USA)
- Kori Inkpen (Microsoft, Redmond, WA, USA)
- Jaime Teevan (Microsoft, Redmond, WA, USA)
- Ruth Kikin-Gil (Microsoft, Redmond, WA, USA)
- Eric Horvitz (Microsoft, Redmond, WA, USA)

Toward Algorithmic Accountability in Public Services: A Qualitative Study of Affected Community Perspectives on Algorithmic Decision-making in Child Welfare Services
- Anna Brown (College of Creative Arts, Massey University, Wellington, New Zealand)
- Alexandra Chouldechova (Carnegie Mellon University & Microsoft Research, Pittsburgh, PA, USA)
- Emily Putnam-Hornstein (University of Southern California, Los Angeles, CA, USA)
- Andrew Tobin (College of Creative Arts, Massey University, Wellington, New Zealand)
- Rhema Vaithianathan (Auckland University of Technology, Auckland, New Zealand)
Examining and Enhancing the Illusory Touch Perception in Virtual Reality Using Non-Invasive Brain Stimulation
- Filip Škola (Faculty of Informatics, Masaryk University, Brno, Czech Rep)
- Fotis Liarokapis (Faculty of Informatics, Masaryk University, Brno, Czech Rep)

To Repeat or Not to Repeat? Redesigning Repeating Auditory Alarms Based on EEG Analysis
- Yi-Chen Lee (National Chiao Tung University, Hsinchu, Taiwan Roc)
- Fu-Yin Cheng (National Chiao Tung University, Hsinchu, Taiwan Roc)
- Jung-Tai King (National Chiao Tung University, Hsinchu, Taiwan Roc)
- Wen-Chieh Lin (National Chiao Tung University, Hsinchu, Taiwan Roc)

Detecting Visuo-Haptic Mismatches in Virtual Reality using the Prediction Error Negativity of Event-Related Brain Potentials
- Lukas Gehrke (Technical University of Berlin, Berlin, Germany)
- Sezen Akman (Technical University of Berlin, Berlin, Germany)
- Pedro Lopes (University of Chicago & Hasso Plattner Institute, University of Potsdam, Chicago, IL, USA)
- Albert Chen (University of Chicago, Chicago, IL, USA)
- Avinash Kumar Singh (National Chiao Tung University, Hsinchu, Taiwan Roc)
- Hsiang-Ting Chen (University of Technology Sydney, Sydney, Australia)
- Chen-Teng Lin (University of Technology Sydney, Ultimo, Australia)
- Klaus Gramann (University of California, San Diego & Technische Universität Berlin, Berlin, Germany)

Measuring the Influences of Musical Parameters on Cognitive and Behavioral Responses to Audio Notifications Using EEG and Large-scale Online Studies
- Fu-Yin Cheng (National Chiao Tung University, Hsinchu, Taiwan Roc)
- Yi-Chen Lee (National Chiao Tung University, Hsinchu, Taiwan Roc)
- Jung-Tai King (National Chiao Tung University, Hsinchu, Taiwan Roc)
- Wen-Chieh Lin (National Chiao Tung University, Hsinchu, Taiwan Roc)

All Eyes On Us: Gaze Interactions
Room: Hall 2
Chair: Christof Lutteroth
The Mental Image Revealed by Gaze Tracking
- Xi Wang (Technische Universität Berlin, Berlin, Germany)
- Andreas Ley (Technische Universität Berlin, Berlin, Germany)
- Sebastian Koch (Technische Universität Berlin, Berlin, Germany)
- David Lindlbauer (Technische Universität Berlin & ETH Zurich, Berlin, Germany)
- James Hays (Georgia Institute of Technology, Atlanta, GA, USA)
- Kenneth Holmqvist (Universität Regensburg, Regensburg, Germany)
- Marc Alexa (Technische Universität Berlin, Berlin, Germany)

An Explanation of Fitts’ Law-like Performance in Gaze-Based Selection Tasks Using a Psychophysics Approach
Honourable Mention
- Immo Schuetz (Facebook Reality Labs, Redmond, WA, USA)
- T. Scott Murdison (Facebook Reality Labs, Redmond, WA, USA)
- Kevin J. MacKenzie (Facebook Reality Labs, Redmond, WA, USA)
- Marina Zannoli (Facebook Reality Labs, Redmond, WA, USA)

CodeGazer: Making Code Navigation Easy and Natural With Gaze Input
- Asma Shakil (Media Design School & University of Auckland, Auckland, New Zealand)
- Christof Lutteroth (University of Bath & University of Auckland, Bath, United Kingdom)
- Gerald Weber (University of Auckland, Auckland, New Zealand)

ReType: Quick Text Editing with Keyboard and Gaze
Best Paper Award
- Shyamli Sindhwani (University of Auckland, Auckland, New Zealand)
- Christof Lutteroth (University of Bath, Bath, United Kingdom)
- Gerald Weber (University of Auckland, Auckland, New Zealand)

Paper session: Design Fictions
Monday - 16:00 - 17:20
Chair: Pawel W. Wozniak
The Adventures of Older Authors: Exploring Futures through Co-Design Fictions
- Aloha Hufana Ambe (Queensland University of Technology, Brisbane, Australia)
- Margot Brereton (Queensland University of Technology, Brisbane, Australia)
- Alessandro Soro (Queensland University of Technology, Brisbane, Australia)
- Laurie Buys (Queensland University of Technology, Brisbane, Australia)
- Paul Roe (Queensland University of Technology, Brisbane, Australia)

HawkEye – Deploying a Design Fiction Probe
- Renee Noortman (Eindhoven University of Technology, Eindhoven, Netherlands)
- Britta F. Schulte (University College London, London, United Kingdom)
- Paul Marshall (University of Bristol, Bristol, United Kingdom)
- Saskia Bakker (Eindhoven University of Technology, Eindhoven, Netherlands)
- Anna L. Cox (University College London, London, United Kingdom)

Smart Home Security Cameras and Shifting Lines of Creepiness: A Design-Led Inquiry
- James Pierce (California College of the Arts & University of California, Berkeley, San Francisco/Berkeley, CA, USA)
"What is Fair Shipping, Anyway?: Using Design Fiction to Raise Ethical Awareness in an Industrial Context

- Yiying Wu (Aalto University, Espoo, Finland)
- Sus Lyckvi (Chalmers University of Technology, Gothenburg, Sweden)
- Virpi Roto (Aalto University, Espoo, Finland)

Paper session: Novel Tracking Methods

Monday - 16:00 - 17:20
Room: Alsh 1
Chair: Yang Zhang

MultiTrack: Multi-User Tracking and Activity Recognition Using Commodity WiFi
- Sheng Tan (Florida State University, Tallahassee, FL, USA)
- Linghan Zhang (Florida State University, Tallahassee, FL, USA)
- Zi Wang (Florida State University, Tallahassee, FL, USA)
- Jie Yang (Florida State University, Tallahassee, FL, USA)

SurfaceSight: A New Spin on Touch, User, and Object Sensing for IoT Experiences
- Gierad Laput (Carnegie Mellon University, Pittsburgh, PA, USA)
- Chris Harrison (Carnegie Mellon University, Pittsburgh, PA, USA)

Enabling Identification and Behavioral Sensing in Homes using Radio Reflections
- Chen-Yu Hsu (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Rumen Hristov (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Guang-He Lee (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Mingmin Zhao (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Dina Katabi (Massachusetts Institute of Technology, Cambridge, MA, USA)

MilliSonic: Pushing the Limits of Acoustic Motion Tracking
- Anran Wang (University of Washington, Seattle, WA, USA)
- Shyamnath Gollakota (University of Washington, Seattle, WA, USA)

Paper session: Touch Interfaces

Monday - 16:00 - 17:20
Room: Alsh 2
Chair: Jun Nishida

Touchscreen Haptic Augmentation Effects on Tapping, Drag and Drop, and Path Following
- Mitchell L. Gordon (Stanford University, Stanford, CA, USA)
- Shumin Zhai (Google, Mountain View, CA, USA)

Effect of Orientation on Unistroke Touch Gestures
- Sven Mayer (University of Stuttgart, Stuttgart, Germany)
- Valentin Schwind (University of Stuttgart, Stuttgart, Germany)
- Huy Viet Le (University of Stuttgart, Stuttgart, Germany)
- Dominik Weber (University of Stuttgart, Stuttgart, Germany)
- Jonas Vogelsang (University of Stuttgart, Stuttgart, Germany)
- Johannes Wolf (University of Stuttgart, Stuttgart, Germany)
- Niels Henze (University of Regensburg, Regensburg, Germany)

An Evaluation of Touch Input at the Edge of a Table
- Nikhita Joshi (University of Waterloo, Waterloo, Canada)
- Daniel Vogel (University of Waterloo, Waterloo, Canada)

Modeling Fully and Partially Constrained Lasso Movements in a Grid of Icons
- Shota Yamanaka (Yahoo Japan Corporation, Tokyo, Japan)
- Wolfgang Stuerzlinger (Simon Fraser University, Vancouver, Canada)

Paper session: Everyday Health and Wellbeing

Monday - 16:00 - 17:20
Room: Lomond
Chair: Elena Agapie

Online Grocery Delivery Services: An Opportunity to Address Food Disparities in Transportation-scarce Areas
- Tawanna R. Dillahunt (University of Michigan, Ann Arbor, MI, USA)
- Sylvia Simioni (University of Michigan, Ann Arbor, MI, USA)
- Xuecong Xu (University of Michigan, Ann Arbor, MI, USA)

Reading Face, Reading Health: Exploring Face Reading Technologies for Everyday Health
- Xianghua Ding (Fudan University, Shanghai, China)
- Yanqi Jiang (Fudan University, Shanghai, China)
- Xiankang Qin (Fudan University, Shanghai, China)
- Yunan Chen (University of California, Irvine, Irvine, CA, USA)
- Wenqiang Zhang (Fudan University, Shanghai, China)
- Lizhe Qi (Fudan University, Shanghai, China)

The Race Towards Digital Wellbeing: Issues and Opportunities
- Alberto Monge Roffarello (Politecnico di Torino, Torino, Italy)
- Luigi De Russis (Politecnico di Torino, Torino, Italy)

Beyond Behavior: The Coach’s Perspective on Technology in Health Coaching
- Heleen Rutjes (Eindhoven University of Technology, Eindhoven, Netherlands)
- Martijn C. Willemse (Eindhoven University of Technology, Eindhoven, Netherlands)

Paper session: Evaluating HCI Methods

Monday - 16:00 - 17:20
Room: Hall 1
Chair: Ignacio Avellino

Increasing the Transparency of Research Papers with Explorable Multiverse Analyses Best Paper Award
- Pierre Dragicevic (Inria, Saclay, France)
- Yvonne Jansen (CNRS – Sorbonne Université, Paris, France)
Cross-Device Taxonomy: Survey, Opportunities and Challenges of Interactions Spanning Across Multiple Devices
- Frederik Brudy (University College London, London, United Kingdom)
- Christian Holz (Microsoft Research, Redmond, WA, USA)
- Roman Råde (Aarhus University, Aarhus, Denmark)
- Chi-Jui Wu (Lancaster University, Lancaster, United Kingdom)
- Steven Houben (Lancaster University, Lancaster, United Kingdom)
- Clemens Nylandsted Klokmose (Aarhus University, Aarhus, Denmark)
- Nicolai Marquardt (University College London, London, United Kingdom)

Anchoring Effects and Troublesome Asymmetric Transfer in Subjective Ratings
- Andy Cockburn (University of Canterbury, Christchurch, New Zealand)
- Carl Gutwin (University of Saskatchewan, Saskatoon, Canada)

Touchstone2: An Interactive Environment for Exploring Trade-offs in HCI Experiment Design
- Alexander Eiselmayer (University of Zurich, Zurich, Switzerland)
- Chat Wacharamananotham (University of Zurich, Zurich, Switzerland)
- Michel Beaudouin-Lafon (Université Paris-Sud, CNRS, Inria, Université Paris-Saclay, Orsay, France)
- Wendy E. Mackay (Université Paris-Sud, CNRS, Inria, Université Paris-Saclay, Orsay, France)

Paper session: Vibrotactile Feedback
Monday - 16:00 - 17:20
Room: Carron 2
Chair: Hemant Bhaskar Surale

Springlets: Expressive, Flexible and Silent On-Skin Tactile Interfaces
- Nur Al-huda Hamdan (RWTH Aachen University, Aachen, Germany)
- Adrian Wagner (RWTH Aachen University, Aachen, Germany)
- Simon Voelker (RWTH Aachen University, Aachen, Germany)
- Jürgen Steimle (Saarland University, Saarland Informatics Campus, Saarbrücken, Germany)
- Jan Borchers (RWTH Aachen University, Aachen, Germany)

Magnetips: Combining Fingertip Tracking and Haptic Feedback for Around-Device Interaction
- Jess McIntosh (University of Copenhagen, Copenhagen, Denmark)
- Paul Strohmeier (University of Copenhagen, Copenhagen, Denmark)
- Jarrod Knibbe (Monash University, Melbourne, Australia)
- Sebastian Boring (University of Copenhagen, Copenhagen, Denmark)
- Kasper Hornbæk (University of Copenhagen, Copenhagen, Denmark)

Pulp Friction: Exploring the Finger Pad Periphery for Subtle Haptic Feedback
- Alix Goguery (Swansea University, Swansea, United Kingdom)
- Deepak Ranjan Sahoo (Swansea University, Swansea, United Kingdom)
- Simon Robinson (Swansea University, Swansea, United Kingdom)
- Jennifer Pearson (Swansea University, Swansea, United Kingdom)
- Matt Jones (Swansea University, Swansea, United Kingdom)

Leveraging Distal Vibrotactile Feedback for Target Acquisition
- Jay Henderson (University of Waterloo, Waterloo, Canada)
- Jeff Avery (University of Waterloo, Waterloo, Canada)
- Laurent Grisoni (University of Lille, Villeneuve d’Ascq, France)
- Edward Lank (INRIA & University of Waterloo, Waterloo, Canada)

Paper session: Touch and Typing
Monday - 16:00 - 17:20
Room: Boisdale 1
Chair: Michail Schwab

PersonalTouch: Improving Touchscreen Usability by Personalizing Accessibility Settings based on Individual User’s Touchscreen Interaction
- Yi-Hao Peng (National Taiwan University, Taipei, Taiwan ROC)
- Muh-Tarng Lin (National Taiwan University, Taipei, Taiwan ROC)
- Yi Chen (National Taiwan University, Taipei, Taiwan ROC)
- TzuChuan Chen (National Taiwan University, Taipei, Taiwan ROC)
- Pin Sung Ku (National Taiwan University, Taipei, Taiwan ROC)
- Paul Taele (Texas A&M University, College Station, TX, USA)
- Chin Guan Lim (National Taiwan University, Taipei, Taiwan ROC)
- Mike Y. Chen (National Taiwan University, Taipei, Taiwan ROC)

Cluster Touch: Improving Touch Accuracy on Smartphones for People with Motor and Situational Impairments
- Martež E. Mott (University of Washington, Seattle, WA, USA)
- Jacob O. Wobbrock (University of Washington, Seattle, WA, USA)

Accessible Gesture Typing for Non-Visual Text Entry on Smartphones
- Syed Masum Billah (Stony Brook University, Stony Brook, NY, USA)
- Yu-Jung Ko (Stony Brook University, Stony Brook, NY, USA)
- Vikas Ashok (Stony Brook University, Stony Brook, NY, USA)
- Xiaojun Bi (Stony Brook University, Stony Brook, NY, USA)
- IVI Gheorghiță (Stony Brook University, Stony Brook, NY, USA)

Stroke-Gesture Input for People with Motor Impairments: Empirical Results & Research Roadmap
- Radu-Daniel Vatavu (University & Stefan cel Mare of Suceava, Suceava, Romania)
- Ovidiu-Ciprian Ungurean (University & Stefan cel Mare of Suceava, Suceava, Romania)
Monday - 17:30 - 19:30

Mini Living Lab: Improving Retention and Success for Women in Tech and Diverse Teams

**Room: Island A CROWNE**

**Mini Living Lab: Improving Retention and Success for Women in Tech and Diverse Teams Through Redesigning the Critique Process**

- Karen Holtzblatt *(InContext Enterprises & WITops, Silver Springs, MD, USA)*
- Michael Ahmadi *(University of Siegen, Siegen, Germany)*
- Anne Weibert *(University of Siegen, Siegen, Germany)*
- Nicola Marsden *(Heilbronn University, Heilbronn, Germany)*

---

**DC01: Designing for the Self: Enabling People to Design Behavioral Interventions**

- Elena Agapie *(University of Washington, Seattle, WA, USA)*

**DC02: Bridging Social Critique and Design: Building a Health Informatics Tool for Transgender Voice**

- Alex A. Ahmed *(Northeastern University, Boston, MA, USA)*

**DC03: Bodily Connectedness: Designing Affective, Movement-based Communication Media**

- Yulia Brazauskayte *(University of New South Wales, Sydney, Australia)*

**DC04: HCI for Participatory Futuring in Sustainable Communities: Reconciling Visions with Everyday Practice**

- Simran Chopra *(Northumbria University, Newcastle upon Tyne, United Kingdom)*

**DC05: Reconnecting the Body and the Mind: Technology to Support Mindfulness for Stress**

- Karen Anne Cochrane *(University of Sydney, Sydney, Australia)*

**DC06: User Adaptation to Constant Change in Algorithmically-Driven Social Platforms**

- Michael A DeVito *(Northwestern University, Evanston, IL, USA)*

**DC07: Algorithms, Oppression, and Mental Illness on Social Media**

- Jessica L. Feuston *(Northwestern University, Evanston, IL, USA)*

**DC08: Languages & Visualizations to Enable Effective End User Programming**

- Jane Hoffswell *(University of Washington, Seattle, Washington, USA)*

**DC09: Player Types of Gamers: Critical Evaluation**

- Suvi K. Holm *(University of Turku, Turku, Finland)*

**DC10: Designing Visual Communication of Everyday Illness Experiences in Pediatric Care**

- Matthew K. Hong *(Georgia Institute of Technology, Atlanta, GA, USA)*

**DC11: Designing for Visual Data Exploration in Multi-Device Environments**

- Tom Horak *(Technische Universität Dresden, Dresden, Germany)*

**DC12: Expressive Biosignals: Authentic Social Cues for Social Connection**

- Fannie Liu *(Carnegie Mellon University, Pittsburgh, PA, USA)*

**DC13: Inventive Scaffolds Catalyze Creative Learning**

- Tricia J. Ngoon *(University of California, San Diego, La Jolla, California, USA)*

**DC14: Mobile Persuasive Technology: Promoting Positive Waste Management Behaviors in Developing African Nations**

- Makuochi Nkwo *(Ebonyi State University, Abakaliki, Nigeria)*

**DC15: Technology Meets Fashion: Exploring Wearables, Fashion Tech and Haute Tech Couture**

- Teddy Seyed *(University of Calgary, Calgary, Canada)*

**DC16: Collaborative Video Game Design Work and Diversity**

- Rachel N. Simons *(The University of Texas at Austin, Austin, TX, USA)*

**DC17: Exploring Future IoT for Families through End User Development: Applying Do-It-Together Practises to Reveal Family Dynamics in Technology Adoption**

- David Verweij *(Northumbria University, Newcastle upon Tyne, United Kingdom)*

**DC18: Designing for Long-term Digital Data Management**

- Francesco Vitale *(University of British Columbia, Vancouver, Canada)*

**DC19: Exploring Socially-Focused Technologies that Can Help Children with Cancer Feel More Like Children Despite their Disease, Treatment and Environment**

- Jillian L. Warren *(Simon Fraser University, Surrey, Canada)*

**DC20: Co-Designing Digital Technologies to Support Minimally-Verbal Children on the Autism Spectrum**

- Cara Wilson *(Queensland University of Technology, Brisbane, Australia)*

**DC01: Designing for the Self: Enabling People to Design Behavioral Interventions**

- Elena Agapie *(University of Washington, Seattle, WA, USA)*

**DC02: Bridging Social Critique and Design: Building a Health Informatics Tool for Transgender Voice**

- Alex A. Ahmed *(Northeastern University, Boston, MA, USA)*

**DC03: Bodily Connectedness: Designing Affective, Movement-based Communication Media**

- Yulia Brazauskayte *(University of New South Wales, Sydney, Australia)*

**DC04: HCI for Participatory Futuring in Sustainable Communities: Reconciling Visions with Everyday Practice**

- Simran Chopra *(Northumbria University, Newcastle upon Tyne, United Kingdom)*

**DC05: Reconnecting the Body and the Mind: Technology to Support Mindfulness for Stress**

- Karen Anne Cochrane *(University of Sydney, Sydney, Australia)*

**DC06: User Adaptation to Constant Change in Algorithmically-Driven Social Platforms**

- Michael A DeVito *(Northwestern University, Evanston, IL, USA)*

**DC07: Algorithms, Oppression, and Mental Illness on Social Media**

- Jessica L. Feuston *(Northwestern University, Evanston, IL, USA)*

**DC08: Languages & Visualizations to Enable Effective End User Programming**

- Jane Hoffswell *(University of Washington, Seattle, Washington, USA)*
- Jane Hoffswell (University of Washington, Seattle, Washington, USA)

DC09: Player Types of Gamers: Critical Evaluation
- Suvi K. Holm (University of Turku, Turku, Finland)

DC10: Designing Visual Communication of Everyday Illness Experiences in Pediatric Care
- Matthew K. Hong (Georgia Institute of Technology, Atlanta, GA, USA)

DC11: Designing for Visual Data Exploration in Multi-Device Environments
- Tom Horak (Technische Universität Dresden, Dresden, Germany)

DC12: Expressive Biosignals: Authentic Social Cues for Social Connection
- Fannie Liu (Carnegie Mellon University, Pittsburgh, PA, USA)

DC13: Inventive Scaffolds Catalyze Creative Learning
- Tricia J. Ngoon (University of California, San Diego, La Jolla, California, USA)

DC14: Mobile Persuasive Technology: Promoting Positive Waste Management Behaviors in Developing African Nations
- Makuoichi Nkwo (Ebonyi State University, Abakaliki, Nigeria)

DC15: Technology Meets Fashion: Exploring Wearables, Fashion Tech and Haute Tech Couture
- Teddy Seyed (University of Calgary, Calgary, Canada)

DC16: Collaborative Video Game Design Work and Diversity
- Rachel N. Simons (The University of Texas at Austin, Austin, TX, USA)

DC17: Exploring Future IoT for Families through End User Development: Applying Do-It-Together Practises to Reveal Family Dynamics in Technology Adoption
- David Verwej (Northumbria University, Newcastle upon Tyne, United Kingdom)

DC18: Designing for Long-term Digital Data Management
- Francesco Vitale (University of British Columbia, Vancouver, Canada)

DC19: Exploring Socially-Focused Technologies that Can Help Children with Cancer Feel More Like Children Despite their Disease, Treatment and Environment
- Jillian L. Warren (Simon Fraser University, Surrey, Canada)

DC20: Co-Designing Digital Technologies to Support Minimally-Verbal Children on the Autism Spectrum
- Cara Wilson (Queensland University of Technology, Brisbane, Australia)

Interactivity: Interactivity
Monday - 17:30 - 19:30 Room: Hall 4

INT001: ScaleDial: A Novel Tangible Device for Teaching Musical Scales & Triads
- Konstantin Klamka (Technische Universität Dresden, Dresden, Germany)
- Jannik Wojnar (Technische Universität Dresden, Dresden, Germany)
- Raimund Dachselt (Technische Universität Dresden, Dresden, Germany)

INT002: ClassBeacons: Unobtrusively Enhancing Reflection-in-Action of Teachers through Spatially Distributed Ambient Information
- Pengcheng An (Eindhoven University of Technology, Eindhoven, Netherlands)
- Saskia Bakker (Eindhoven University of Technology, Eindhoven, Netherlands)
- Sara Ordanowski (Utrecht University, Utrecht, Netherlands)
- Ruurd Taconis (Eindhoven University of Technology, Eindhoven, Netherlands)
- Chris L. E. Paffen (Utrecht University, Utrecht, Netherlands)
- Berry Eggen (Eindhoven University of Technology, Eindhoven, Netherlands)

INT003: Physical Programming for Blind and Low Vision Children at Scale
- Nicolas Villar (Microsoft Research, Redmond, WA, USA)
- Cecily Morrison (Microsoft Research, Cambridge, United Kingdom)
- Daniel Cletheroe (Microsoft Research, Cambridge, United Kingdom)
- Tim Regan (Microsoft Research, Cambridge, United Kingdom)
- Anja Thierme (Microsoft Research, Cambridge, United Kingdom)
- Greg Saul (Microsoft Research, Cambridge, United Kingdom)

INT004: StringTouch -- A Scalable Low-Cost Concept for Deformable Interfaces
- Beat Rossmy (LMU University of Munich, Munich, Germany)
- Alexander Wiethoff (LMU University of Munich, Munich, Germany)

INT005: Tangible Interactions with Acoustic Levitation
- Asier Marzo (Universidad Publica de Navarra, Pamplona, Spain)
- Steven Kockaya (University of Bristol, Bristol, United Kingdom)
- Euan Freeman (University of Glasgow, Glasgow, United Kingdom)
- Julie Williamson (University of Glasgow, Glasgow, United Kingdom)

INT006: Three-in-one: Levitation, Parametric Audio, and Mid-Air Haptic Feedback
- Gözat Shaker (University of Glasgow, Glasgow, United Kingdom)
- Euan Freeman (University of Glasgow, Glasgow, United Kingdom)
- William Frier (University of Sussex, Brighton, United Kingdom)
- Michele Iodice (Ultrahaptics, Bristol, United Kingdom)
- Benjamin Long (Ultrahaptics Ltd, Bristol, United Kingdom)
- Orestis Georgiou (Ultrahaptics Ltd, Bristol, United Kingdom)
- Carl Andersson (Applied Acoustics, Gothenburg, Sweden)

INT007: Demonstration of Refinity: An Interactive Holographic Signage for New Retail Shopping Experience
- Jin Ryong Kim (Alibaba Group, Sunnyvale, CA, USA)
- Stephanie Chan (Alibaba Group, Sunnyvale, CA, USA)
- Xiangchao Huang (Alibaba Group, Sunnyvale, CA, USA)
- Kenneth Ng (Alibaba Group, Sunnyvale, CA, USA)
- Limin Paul Fu (Alibaba Group, Sunnyvale, CA, USA)
INT008: Multimodal Representation of Complex Spatial Data
- Chen Zhao (Alibaba Group, Sunnyvale, CA, USA)
- Hrishikesh Rao (University of Michigan, Ann Arbor, MI, USA)
- Sile O'Modhrain (University of Michigan, Ann Arbor, MI, USA)

INT009: Brick: A Synchronous Multiplayer Augmented Reality Game for Mobile Phones
- Po Bhattacharyya (Carnegie Mellon University, Pittsburgh, PA, USA)
- Yein Jo (Carnegie Mellon University, Pittsburgh, PA, USA)
- Ketki Jadhav (Carnegie Mellon University, Pittsburgh, PA, USA)
- Radha Nath (Carnegie Mellon University, Pittsburgh, PA, USA)
- Jessica Hammer (Carnegie Mellon University, Pittsburgh, PA, USA)

INT010: Towards Evidence-informed Design Principles for Adaptive Reading Games
- Manolis Mavrikis (University College London, London, United Kingdom)
- Asimina Vasalou (University College London, London, United Kingdom)
- Laura Benton (University College London, London, United Kingdom)
- Ehrystanhi Raptopoulou (National Technical University of Athens, Athens, Greece)
- Antonios Symvoulos (National Technical University of Athens, Athens, Greece)
- Kostas Karpouzis (National Technical University of Athens, Athens, Greece)
- Drew Wilkins (Fish in a Bottle, Leamington Spa, United Kingdom)

INT011: ‘In the Same Boat’, A Game of Mirroring Emotions for Enhancing Social Play
- Raquel Breejoe Robinson (University of Saskatchewan, Saskatoon, Canada)
- Elizabeth Reid (University of Saskatchewan, Saskatoon, Canada)
- Angsar E. Depping (University of Saskatchewan, Saskatoon, Canada)
- Regan Mandryk (University of Saskatchewan, Saskatoon, Canada)
- James Collin Fey (University of California, Santa Cruz, Santa Cruz, CA, USA)
- Katherine Isbister (University of California, Santa Cruz, Santa Cruz, CA, USA)

INT012: Slackliner 2.0: Real-time Training Assistance through Life-size Feedback
- Christian Murlowski (DFKI, Saarland Informatics Campus, Saarbrücken, Germany)
- Florian Daiber (DFKI, Saarland Informatics Campus, Saarbrücken, Germany)
- Felix Kosmalla (DFKI, Saarland Informatics Campus, Saarbrücken, Germany)
- Antonio Krüger (DFKI, Saarland Informatics Campus, Saarbrücken, Germany)

INT013: Playing Beyond the Front Room: Designing for Social Play in Ola De La Vida
- Lynn H. C. Love (Abertay University, Dundee, United Kingdom)
- Mona Bozdog (Abertay University, Dundee, United Kingdom)

INT014: Crushed it! Interactive Floor Demonstration
- Rina R. Wehbe (University of Waterloo, Waterloo, Canada)
- Kai Bornemann (Otto-von-Guericke Universität, Magdeburg, Germany)
- Benjamin Hatscher (Otto-von-Guericke Universität, Magdeburg, Germany)
- Joseph Tu (University of Waterloo, Waterloo, Canada)
- Lisa F. Cormier (University of Waterloo, Waterloo, Canada)
- Christian Hansen (Otto-von-Guericke Universität, Magdeburg, Germany)
- Edward Lank (University of Waterloo, Waterloo, Canada)
- Lennart E. Nacke (University of Waterloo, Waterloo, Canada)

INT015: FoldTronics Demo: Creating 3D Objects with Integrated Electronics Using Foldable Honeycomb Structures
- Junichi Yamaoka (Massachusetts Institute of Technology & University of Tokyo, Cambridge, MA, USA)
- Mustafa Doga Dogan (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Katarina Bulovic (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Kazuya Saito (University of Tokyo, Bunkyo-ku, Japan)
- Yoshihiro Kawahara (University of Tokyo, Bunkyo-ku, Japan)
- Yasuaki Kakehi (University of Tokyo, Bunkyo-ku, Japan)
- Stefanie Mueller (Massachusetts Institute of Technology, Cambridge, MA, USA)

INT016: Demonstrating Kyub: A 3D Editor for Modeling Sturdy Laser-Cut Objects
- Patrick Baudisch (Hasso Plattner Institute, Potsdam, Germany)
- Arthur Silber (Hasso Plattner Institute, Potsdam, Germany)
- Yannis Komnana (Hasso Plattner Institute, Potsdam, Germany)
- Milan Gruner (Hasso Plattner Institute, Potsdam, Germany)
- Ludwig Wall (Hasso Plattner Institute, Potsdam, Germany)
- Kevin Reuss (Hasso Plattner Institute, Potsdam, Germany)
- Lukas Heilmann (Hasso-Plattner-Institut, Potsdam, Germany)
- Robert Kovacs (Hasso Plattner Institute, Potsdam, Germany)
- Daniel Rechlitz (Hasso Plattner Institute, Potsdam, Germany)
- Thijs Roumen (Hasso Plattner Institute, Potsdam, Germany)

INT017: Digital Fabrication of Soft Actuated Objects by Machine Knitting
- Lea Albaugh (Carnegie Mellon University, Pittsburgh, PA, USA)
- Scott Hudson (Carnegie Mellon University, Pittsburgh, PA, USA)
- Lining Yao (Carnegie Mellon University, Pittsburgh, PA, USA)

INT018: Painting with CATS: Camera-Aided Texture Synthesis
- Ticha Sethapakdi (Carnegie Mellon University, Pittsburgh, PA, USA)
- James McCann (Carnegie Mellon University, Pittsburgh, PA, USA)

INT019: Flowboard: A Visual Flow-Based Programming Environment for Embedded Coding
- Anke Brocker (RWTH Aachen University, Aachen, Germany)
INT020: Live Programming By Example
- Mark Santolucito (Yale University, New Haven, CT, USA)
- William T. Hallahan (Yale University, New Haven, CT, USA)
- Ruzica Piskac (Yale University, New Haven, CT, USA)

INT021: Dynamic Depth-of-Field Projection for 3D Projection Mapping
- Lihui Wang (University of Tokyo, Tokyo, Japan)
- Hongjin Xu (University of Tokyo, Tokyo, Japan)
- Yunpu Hu (University of Tokyo, Tokyo, Japan)
- Satoshi Tabata (University of Tokyo, Tokyo, Japan)
- Masatoshi Ishikawa (University of Tokyo, Bunkyo-ku, Japan)

INT022: Demonstration of Springlets: Expressive, Flexible and Silent On-Skin Tactile Interfaces
- Nur Al-huda Hamdan (RWTH Aachen University, Aachen, Germany)
- Adrian Wagner (RWTH Aachen University, Aachen, Germany)
- Simon Voelker (RWTH Aachen University, Aachen, Germany)
- Jan Borchers (RWTH Aachen University, Aachen, Germany)
- Jürgen Steimle (Saarland University, Saarland Informatics Campus, Saarbrücken, Germany)

INT023: A Sensing Technique for Data Glove Using Conductive Fiber
- Ryosuke Takada (University of Tsukuba, Tsukuba, Japan)
- Junichiro Kadomoto (The University of Tokyo, Hongo, Japan)
- Buntarou Shizuki (University of Tsukuba, Tsukuba, Japan)

INT024: LUNE: Representing Lunar Day by Displayed Lighting Object
- Sung ho Lee (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Seong beom Kim (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Byoung hern Kim (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Hui sung Lee (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)

INT025: Bear & Co: Simulating Value Conflicts in IoT Development
- Annelie Berner (Copenhagen Institute of Interaction Design, Copenhagen, Denmark)
- Monica Seyfried (Copenhagen Institute of Interaction Design, Copenhagen, Denmark)
- Calle Nordenskjöld (Copenhagen Institute of Interaction Design, Copenhagen, Denmark)
- Peter Kühberg (Copenhagen Institute of Interaction Design, Copenhagen, Denmark)
- Irina Shklovski (IT University of Copenhagen, Copenhagen, Denmark)

INT026: An Exploration of Responsive and Emotive Wearables through Research Prototyping
- Rain Ashford (Goldsmiths, University of London, London, United Kingdom)

INT027: Being-in-the-Gallery
- Rhoda Ellis (Biome Collective, Dundee, United Kingdom)

INT028: Hypercept: Speculating the Visual World Intervened by Digital Media
- Jiabao Li (Harvard Graduate School of Design, Cambridge, MA, USA)
- Honghao Deng (Harvard Graduate School of Design, Cambridge, MA, USA)
- Panagiotis Michalatos (Harvard Graduate School of Design, Cambridge, MA, USA)

INT029: Twenty Years of The Mixed Reality Laboratory
- Paul Tennent (University of Nottingham, Nottingham, United Kingdom)
- Steve Benford (University of Nottingham, Nottingham, United Kingdom)

INT030: Come Hither to Me
- Sahar Sajadieh (University of California, Santa Barbara, Santa Barbara, CA, USA)
- Hannah Wolle (University of California, Santa Barbara, Santa Barbara, CA, USA)

INT031: Eyes: Iris Sonification and Interactive Biometric Art
- Yoon Chung Han (San Jose State University, San Jose, CA, USA)
- Praful Surve (California State University, Fullerton, Fullerton, CA, USA)

INT032: Hybrid Dandelion: Visual Aesthetics of Performance Through Bionic Mechanism with Data from Facial Recognition
- Scottie Chih-Chieh Huang (National Tsing Hua University, Hsinchu, Taiwan ROC)
- Chung-Yun Hsiao (National Chiao Tung University, Hsinchu, Taiwan ROC)

INT033: Death Ground
- Christos Michalakos (Abertay University, Dundee, United Kingdom)
- Bernt Isak Wærstad (Norwegian University of Science and Technology, Trondheim, Norway)

INT034: Keycube is a Kind of Keyboard (k^3)
- Damien Brun (Université TÉLUQ, Montréal, Canada)
- Charles Gouin-Vallerand (Université TÉLUQ, Montreal, Canada)
- Sébastien George (Le Mans Université, Le Mans, France)

INT035: Demonstration of Transcallibar: A VR Controller that Presents Various Shapes of Handheld Objects
- Jotaro Shigeyama (University of Tokyo, Bunkyo-ku, Japan)
- Takeru Hashimoto (University of Tokyo, Bunkyo-ku, Japan)
- Shigeo Yoshida (University of Tokyo, Bunkyo-ku, Japan)
- Takuki Narumi (University of Tokyo, Bunkyo-ku, Japan)
- Tomohiro Tanikawa (University of Tokyo, Bunkyo-ku, Japan)
- Michitaka Hirose (University of Tokyo, Bunkyo-ku, Japan)

INT036: VRChairRacer: Using an Office Chair Backrest as a Locomotion Technique for VR Racing Games
INT037: Demonstrating VRBox—A Virtual Reality Augmented Sandbox
- Dmitry Alexandrovsky (University of Bremen, Bremen, Germany)
- Tanja Döring (University of Bremen, Bremen, Germany)
- Susanne Putze (University of Bremen, Bremen, Germany)
- Thomas Fröhlich (University of Bremen, Bremen, Germany)
- Timo Stabbert (University of Bremen, Bremen, Germany)
- Markus Funk (TU Darmstadt, Darmstadt, Germany)

INT039: A Virtual Reality Experience for Learning Languages
- Sarah Garcia (University of South Florida, Tampa, Florida, USA)
- Donald Kauer (University of South Florida, Tampa, Florida, USA)
- Denis Laesker (University of South Florida, Tampa, Florida, USA)
- Jason Nguyen (University of South Florida, Tampa, Florida, USA)
- Marvin Andujar (University of South Florida, Tampa, Florida, USA)

INT040: Experiencing a Mirrored World with Geotagged Social Media in Geollery
- Ruofei Du (University of Maryland, College Park, College Park, Maryland, USA)
- David Li (University of Maryland, College Park, College Park, Maryland, USA)
- Amitabha Varshney (University of Maryland, College Park, College Park, Maryland, USA)

INT041: Egocentric Smaller-person Experience through a Change in Visual Perspective
- Jun Nishida (University of Chicago, Chicago, Illinois, USA)
- Soichiro Matsuda (University of Tsukuba, Tsukuba, Japan)
- Mika Oki (University of Tsukuba, Tsukuba city, Japan)
- Hikaru Takatori (University of Tsukuba, Tsukuba, Japan)
- Kosuke Sato (University of Tsukuba, Ibaraki, Japan)
- Kenji Suzuki (University of Tsukuba, Tsukuba, Japan)

INT042: Demonstration of SeeingVR: A Set of Tools to Make Virtual Reality More Accessible to People with Low Vision
- Yuhang Zhao (Microsoft Research & Cornell Tech, New York, New York, USA)
- Edward Cutrell (Microsoft Research, Redmond, Washington, USA)
- Christian Holz (Microsoft Research, Redmond, Washington, USA)
- Soichiro Matsuda (Microsoft Research, Redmond, Washington, USA)
- Eyal Olek (Microsoft Research, Redmond, Washington, USA)
- Andrew D. Wilson (Microsoft Research, Redmond, Washington, USA)

INT043: Immersive VR Exergames for Health and Wellbeing
- Kiran Iljaz (The University of Sydney, Sydney, Australia)
- Yifan Wang (The University of Sydney, Sydney, Australia)
- Naseem Ahmadpour (The University of Sydney, Sydney, Australia)
- Rafael A. Calvo (The University of Sydney, Sydney, Australia)

INT044: Multisensory Virtual Environment for Fire Evacuation Training
- Tommy Nilsson (University of Nottingham, Nottingham, United Kingdom)
- Tessa Roper (University of Nottingham, Nottingham, United Kingdom)
- Emily Shaw (University of Nottingham, Nottingham, United Kingdom)
- Glyn Lawson (University of Nottingham, Nottingham, United Kingdom)
- Sue V. G. Cobb (University of Nottingham, Nottingham, United Kingdom)
- Hsieh Meng-Ko (University of Nottingham, Nottingham, United Kingdom)
- Daniel Miller (University of Nottingham, Nottingham, United Kingdom)
- James Khan (University of Nottingham, Nottingham, United Kingdom)

INT045: 3D Positional Movement Interaction with User-Defined, Virtual Interface for Music Software: MoveMIDI
- Timothy Arterbury (Baylor University, Waco, TX, USA)
- G. Michael Poor (Baylor University, Waco, TX, USA)

INT046: Are Drones Meditative?
- Joseph La Delfa (RMIT University, Melbourne, Australia)
- Mehmet Aydin Baytas (Qualysis AB, Gothenburg, Sweden)
- Olivia Wichtowski (RMIT University, Melbourne, Australia)
- Rohit Ashok Khot (RMIT University, Melbourne, Australia)
- Florian Floyd Mueller (RMIT University, Melbourne, Australia)

INT047: iScream!: Towards the Design of Playful Gustosonic Experiences with Ice Cream
- Yan Wang (RMIT University, Melbourne, Australia)
- Zhuying Li (RMIT University, Melbourne, Australia)
- Robert Jarvis (RMIT University, Melbourne, Australia)
- Rohit Ashok Khot (RMIT University, Melbourne, Australia)
- Florian ‘Floyd’ Mueller (RMIT University, Melbourne, Australia)

INT048: Augmenting Circle Dance with Physical Computing
- Hanif Baharin (Universiti Kebangsaan Malaysia, Bangi, Malaysia)
- Hafiz Mastro (AHM Strategies, Rawang, Malaysia)
INT049: Movie+: Towards Exploring Social Effects of Emotional Fingerprints for Video Clips and Movies
- Anton Fedosov (Università della Svizzera italiana, Lugano, Switzerland)
- Bianca Stancu (Università della Svizzera italiana, Lugano, Switzerland)
- Elena Di Lascio (Università della Svizzera italiana (USI), Lugano, Switzerland)
- Davide Eynard (Università della Svizzera italiana, Lugano, Switzerland)
- Marc Langheinrich (Faculty of Computer Science, Lugano, Switzerland)

INT050: PhotoFlow in Action: Picture-Mediated Reminiscence Supporting Family Socio-Connectivity
- Benett Axtell (University of Toronto, Toronto, Canada)
- Cosmin Munteanu (University of Toronto & University of Toronto Mississauga, Mississauga, Canada)

Miscellaneous: Conference Reception
Monday - 17:30 - 19:30  Room: Hall 4
Competition: Student Design Competition
Monday - 17:30 - 19:30  Room: Hall 4

SDC01: NeighBoard: Facilitating Community Policing with Embodied Tech Design
- Crystal Compton (University of Minnesota, Saint Paul, MN, USA)
- Ellen Dupler (University of Minnesota, Minneapolis, MN, USA)
- J. Walter Lee (University of Minnesota, Saint Paul, MN, USA)

SDC02: Co ed: A Classroom Setup for Enhancing Cooperative Learning and Digital Literacy
- Anand Kishore (National Institute of Design, Gandhinagar, India)
- Cletus V. Joseph (National Institute of Design, Gandhinagar, India)
- Lamha Bijili (National Institute of Design, Gandhinagar, India)
- Md. Aasif Anwar (National Institute of Design, Gandhinagar, India)
- Urvi (National Institute of Design, Gandhinagar, India)

SDC03: Drawxi: An Accessible Drawing Tool for Collaboration
- Suraj Chiplunkar (Indiana University, Bloomington, IN, USA)
- Anany Maini (Indiana University, Bloomington, IN, USA)
- Dinesh Ram (Indiana University, Bloomington, IN, USA)
- Zixuan Zheng (Indiana University, Bloomington, IN, USA)
- Yaxin Zheng (Indiana University Bloomington, Bloomington, IN, USA)

SDC04: Shadoji: View Body Shapes from a Different Angle
- Xuan Jin (University of Michigan, Ann Arbor, MI, USA)
- Peipei Nie (University of Michigan, Ann Arbor, MI, USA)
- Zhiyi Wang (University of Michigan, Ann Arbor, MI, USA)
- Chunying Zhang (University of Michigan, Ann Arbor, MI, USA)

SDC05: Give Me a Break: Design for Communication Among Family Caregivers and Respite Caregivers
- Flannery Currin (Earlham College, Richmond, IN, USA)
- Gustavo Razo (University of California, Merced, Merced, CA, USA)
- Aehong Min (Indiana University Bloomington, Bloomington, IN, USA)

SDC06: Amor: Supporting Emerging Adult Couples to Manage Finances for a Common Goal
- Mintra Ruensuk (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Jayeong Yoon (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Cho eun Park (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)

SDC07: SENTI?: Reconnect with Yourself to Better Connect with Others
- Audrey Drolet (Université Laval, Québec, Canada)
- Thomas Lemonde-Marzell (Université Laval, Québec, Canada)
- Pablo Matos Da Silva (Université Laval, Québec, Canada)
- Kim Lamontagne (Université Laval, Québec, Canada)
- Marjorie Bédard (Université Laval, Québec, Canada)

SDC08: Haptic Remembrance Book Series
- Elaine Czech (Keio University, Yokohama, Japan)
- Mina Shibasaki (Keio University, Yokohama, Japan)
- Keitaro Tsuchiya (Keio University, Yokohama, Japan)

SDC09: HelloBox: Creating Safer and Kid-friendly Communities
- Tab Zhang (University of Minnesota, Minneapolis, MN, USA)
- Yongle Zhang (University of Minnesota, Minneapolis, MN, USA)
- Leyi Sun (University of Minnesota, Minneapolis, MN, USA)
- Lily Dunk (University of Minnesota, Minneapolis, MN, USA)

SDC10: HearU: An Integrated System to Raise Awareness of Hearing Loss
- Beijia Wang (University of Washington, Seattle, WA, USA)
- Mengxiao Song (University of Washington, Seattle, WA, USA)
- Yuting Han (University of Washington, Seattle, WA, USA)
- Duo Wang (University of Washington, Seattle, WA, USA)

SDC11: PALS: Patching ALS through Crowdsourced Advice, Social Links & Public Awareness
- Richard Cave (University College London, London, United Kingdom)
- Karina Kocemba (University College London, London, United Kingdom)
- Svjetlana Dajic (University College London, London, United Kingdom)
- Holloe Bostock (University College London, London, United Kingdom)
- Alastair Cook (University College London, London, United Kingdom)

SDC12: TechBuddies: Engaging Students to Teach Retirees about Technology
- Jim Philippe Neussi (University College London, London, United Kingdom)
Competition: Student Research Competition
Monday - 17:30 - 19:30  Room: Hall 4

SRC01: Can Changes in Heart Rate Variability Represented in Sound be Identified by Non-Medical Experts?
  • Mariam Bahameish (Queen Mary University of London, London, United Kingdom)

SRC02: Muse: Scaffolding Metacognitive Reflection in Design-Based Research
  • Victoria Cabailes (Northwestern University, Evanston, IL, USA)

SRC03: Guidelines for Combining Storytelling and Gamification: Which Features Would Teenagers Desire to Have a More Enjoyable Museum Experience?
  • Vanessa Cesário (University of Porto & Madeira Interactive Technologies Institute, Funchal, Portugal)

SRC04: Understanding the Occupational Therapists Method to Inform the Design of Technologies for People with Dementia
  • Emma Dixon (University of Maryland, College Park, College Park, MD, USA)

SRC05: Lake: A Digital Wizard of Oz Prototyping Tool
  • Andrew Finke (Northwestern University, Evanston, IL, USA)

SRC06: Automatic Speech Recognition Services: Deaf and Hard-of-Hearing Usability
  • Abraham Glasser (Rochester Institute of Technology, Rochester, NY, USA)

SRC07: Affordable Smart Wheelchair
  • Isabella Gomez Torres (University of California, San Diego, San Diego, CA, USA)
  • Gaurav Parmar (University of California, San Diego, San Diego, CA, USA)
  • Samarth Aggarwal (University of California, San Diego, San Diego, CA, USA)
  • Nathaniel Mansur (University of California, San Diego, San Diego, CA, USA)
  • Alexander Guthrie (University of California, San Diego, San Diego, CA, USA)

SRC08: Math Graphs for the Visually Impaired: Audio Presentation of Elements of Mathematical Graphs
  • Jeongyeon Kim (Sogang University, Seoul, Republic of Korea)
  • Yoonah Lee (Sogang University, Seoul, Republic of Korea)
  • Inho Seo (Sogang University, Seoul, Republic of Korea)

SRC09: I Am What You Eat: Effects of Social Influence on Meal Selection Online
  • Maria D. Molina (Pennsylvania State University, University Park, PA, USA)

SRC10: Designing Compassion Cultivating Interactions for New Mothers
  • Annu Sible Prabhakar (Indiana University, Bloomington, IN, USA)

SRC11: Family-Centered Exploration of the Benefits and Burdens of Digital Home Assistants
  • Olivia K. Richards (Pennsylvania State University, University Park, PA, USA)

SRC12: Privacy Therapy with Aretha: What If Your Firewall Could Talk?
  • William Seymour (University of Oxford, Oxford, United Kingdom)

SRC13: ParaXplore: Demystifying the Exploration of Large Design Spaces
  • Naghm Shireen (Simon Fraser University, Surrey, Canada)

SRC14: Sense of Familiarity: Improving Older Adults’ Adaptation to Exergames
  • Hao Zhang (Nanyang Technological University, Singapore, Singapore)

SRC15: GPK: An Efficient Special Symbol Input Method for Keyboards
  • Xiyuan He (Zhejiang University, Hangzhou, China)
  • Zhuohao Zhang (Zhejiang University, Hangzhou, China)
Special thanks for the financial support provided by the following sponsors:

Champion Sponsors

- Alibaba Group
- Baidu
- Bloomberg
- Facebook
- Google
- Microsoft
- NSF
- Verizon Media

Contributing Sponsors

- Autodesk
- Huawei
- IBM Research
- Mozilla
- SICSA
- University of Glasgow

Friends of CHI

- Adobe Systems, Inc.
- Elsevier
- Uber