

## KARRIE G. KARAHALIOS

Professor

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### APPOINTMENTS

2025-Present	Professor	Media Arts and Sciences	Massachusetts Institute of Technology
2019-Present	Co-Director	Community Data Clinic	University of Illinois, Urbana-Champaign
2018-Present	Founder/Co-Dir.	Center for Just Infrastructures	University of Illinois, Urbana-Champaign
2018-Present	Affiliate Professor	Department of Electrical and Comp. Eng.	University of Illinois, Urbana-Champaign
2018-Present	Affiliate Professor	Unit for Criticism & Interpretive Theory	University of Illinois, Urbana-Champaign
2017-Present	Professor	Department of Computer Science	University of Illinois, Urbana-Champaign
2013-Present	Affiliate Professor	Coordinated Science Laboratory	University of Illinois, Urbana-Champaign
2011-Present	Co-Director	Center for People and Infrastructures	University of Illinois, Urbana-Champaign
2016-Present	Senior Researcher	Creative Intelligence Lab	Adobe, San Francisco
2010-2017	Associate Professor	Department of Computer Science	University of Illinois, Urbana-Champaign
2009-2010	Berkman Fellow	Berkman Center for Internet and Society	Harvard University
2008-Present	Affiliate Professor	School of Library and Information Science	University of Illinois, Urbana-Champaign
2004-2013	Affiliate Professor	Institute of Aviation and Human Factors	University of Illinois, Urbana-Champaign
2004-2010	Assistant Professor	Department of Computer Science	University of Illinois, Urbana-Champaign

### EDUCATION

2004	Ph.D., Media Arts and Sciences: Massachusetts Institute of Technology. June 2004.
1997	S.M., Media Arts and Sciences: Massachusetts Institute of Technology. November 1997.
1995	M. E., Electrical Engineering and Computer Science: Massachusetts Institute of Technology. June 1995.
1994	S.B., Electrical Engineering and Computer Science: Massachusetts Institute of Technology. June 1995.

### HONORS AND AWARDS

2025	Conference on Human Factors in Computing Systems (CHI) Best Paper Award
2024	Conference on Human Factors in Computing Systems (CHI) Paper Honorable Mention
2023	UIUC Fiddler Fellowship
2023	Conference on Computer Supported Cooperative Work (CSCW) Best Paper Award
2021	ACM SIGCHI Recognition of Excellent Service
2021	Conference on Human Factors in Computing Systems (CHI) Honorable Mention
2020	International Conference on Management of Data (SIGMOD) Best Paper Award (one of two)
2019	University Scholar, University of Illinois
2019	ACM Distinguished Member
2019	IEEE Senior Member
2019	UIUC Fiddler Fellowship
2019	Conference on Computer Supported Cooperative Work (CSCW) Paper Honorable Mention
2019	International Conference on Data Engineering Best Demo Award
2018	ACM Recognition of Service Award
2018	Conference on Human Factors in Computing Systems (CHI) Honorable Mention Award
2017	Dean's Award for Excellence in Research, University of Illinois
2017	List of teachers ranked as excellent by their students
2017	Conference on Human Factors in Computing Systems (CHI) Best Paper Award
2015	Adobe Faculty Fellowship
2015	National Center for Supercomputing Applications (NCSA) Faculty Fellowship
2015	Conference on Human Factors in Computing Systems (CHI) Best Paper Award
2015	Public Engagement Award, University of Illinois Campus Award
2014	Engineering Council Outstanding Advising Award
2012	List of teachers ranked as excellent by their students
2011	Kavli Fellowship
2010	Alfred P. Sloan Research Fellowship

2009 Berkman Faculty Fellow (Awarded by the Berkman Center for Internet and Society, Harvard)

2009 C.W. Gear Outstanding Junior Faculty Award

2009 Conference on Human Factors in Computing Systems (CHI) Best Paper Award

2008 A. Richard Newton Breakthrough Research Award, Microsoft Research. (Awarded to 10 recipients by Microsoft. Breakthrough projects demonstrate potentially high impact by solving problems of great importance to science or society, or by inventing promising new approaches for enabling their solution.)

2008 Conference on Human Factors in Computing Systems (CHI) Best Paper Award

2007 National Science Foundation's Faculty Early Career Development (CAREER) Award

2007 List of teachers ranked as excellent by their students

2006 IBM Young Faculty Award

2006 List of teachers ranked as excellent by their students

2005 Motorola Young Faculty Award

2005 List of teachers ranked as excellent by their students

2001 IBM Fellowship

2000 IBM Fellowship

1999 Interval Fellowship

1995 Interval Fellowship

## SERVICE ACTIVITIES

### *Editorships*

- ACM Transactions on Computer-Human Interaction, Associate Editor, 2025-Present.
- Foundations and Trends in HCI Journal, Associate Editor, 2014-2024.
- ACM Transactions on Social Computing, Associate Editor, 2015-2024.
- ACM Transactions on Multimedia Computing Communications and Applications (TOMCCAP), Associate Editor, 2009-2012.

### *Advisory/Steering Committees*

- CSCW Steering Committee, 2025-2026.
- CSCW Steering Committee Chair, 2022-2025.
- CSCW Steering Committee Chair Elect, 2020-2022.
- DARPA's Information Science and Technology (ISAT) study group, 2018-2021.
- ACM SIGCHI Committee to Aid Reporting on discrimination and harassment policy violations (CARES), 2020-Present.
- Human Computation Journal, Advisory Board, 2014-Present.

### *Community Committees*

- ACM CSCW Rolling Papers Committee, 2024-Present.
- ACM CSCW Lasting Award Committee, 2022.
- ACM SIGCHI CARES Committee, 2020-Present. (Interim co-chair in 2024-Present.)
- ACM Eugene L. Lawler Award Committee, 2021.
- MIT Educational Council, 2020-2024.
- Co-Founder of the East Central Illinois Chapter of Decoding Dyslexia, 2021.
- ACM CSCW Lasting Award Committee, 2018.

### *Chair, Organizer*

- General Chair, Computer Supported Cooperative Work (CSCW), 2019.
- Program Co-Chair, Computer Supported Cooperative Work (CSCW), 2018 Spring 2<sup>nd</sup> Round, 2018.
- Program Co-Chair, Computer Supported Cooperative Work (CSCW), 2018 Online First, 2017.
- Co-Chair, Conference on Human Factors in Computing Systems (CHI) alt.CHI, 2017.
- Co-Chair, Conference on Computer Supported Cooperative Work (CSCW), Demos, 2017.
- Video Chair, Computer Supported Cooperative Work (CSCW), 2011.
- Chair, Social Spaces mini-track at the Hawaiian International Conference on System Sciences (HICSS), 2008,2009.
- Co-Chair, Workshops and Special Sessions, Collaborative Technologies and Systems (CTS). 2008.
- Steering Committee, IEEE TableTop 2007-2008.
- Paper Chair, Social Computing Track. International Human Computer Interaction (HCI), 2007.
- Co-funded an Autism Diagnostic Observation Schedule (ADOS) Workshop with Northwestern University, 2007.
- Interactive Paper Chair, Computer Supported Cooperative Work (CSCW), 2006.

### *Program Committees*

- International Workshop on Algorithmic Bias in Search and Recommendation (BIAS), 2020, 2021, 2022.
- Conference on Computer Supported Cooperative Work (CSCW), 2006, 2011, 2014, 2015, 2017, 2018, 2019.
- Conference on Human Factors in Computing Systems (CHI), 2009, 2010, 2011, 2013, 2017.
- Conference on Computer Supported Cooperative Work (CSCW) CSCW Lasting Impact Award Committee (2018).
- 1<sup>st</sup> Conference on Fairness, Accountability, and Transparency (FAT\*), HCI&Vis Track co-chair.
- Senior Program Committee of the International Conference on Web Logs and Social Media (ICWSM), 2014, 2015.
- International World Wide Web Conference (WWW), 2011, 2015.
- Symposium & Workshop on Measuring Influence on Social Media, 2012, 2013.
- Creativity and Cognition Conference, 2009.
- ACM Tabletop, 2009.
- International Workshop on Social Aspects of Ubiquitous Computing Environments (SAUCE), 2009.
- ACM Multimedia, 2007, 2009.
- MobiComm HealthNet, 2007, 2008.
- IEEE Tabletop, 2007-2008.
- Collaborative Technologies and Systems (CTS), 2008.
- Decennial Critical Computing Conference, 2005.

### *Panelist/Reviewer*

- National Science Foundation (NSF), 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2015, 2018.
- Heidelberg Laureate Forum, 2017-Present.
- Defense Advanced Research Projects Agency (DARPA), 2006.
- Association of Performing Arts Presenters, 2004, 2005.

### *Reviewer*

- Conference on Human Factors in Computer Systems (CHI), 2003-2018, 2021, 2025.
- Computer Supported Cooperative Work (CSCW), 2006-2012, 2014-2015, 2022, 2025.
- MIT Press, 2004, 2025.
- NeurIPS Navigating the Broader Impacts of AI Research Workshop, 2020.
- Human Computer Interaction Journal, 2014-2015.
- Interactions of the ACM, 2015.
- IEEE Transactions on Multimedia, 2007-2012.
- Intelligent User Interfaces (IUI), 2008-2011.
- Tangible and Embedded Interfaces, 2010.
- International Meeting for Autism Research (IMFAR), 2009.
- Transactions on Information Technology in BioMedicine, 2009.
- Intellectual and Developmental Disabilities, American Association of Intellectual and Developmental Disabilities(AAIDD), 2008-2009.
- Usability Professionals' Association (UPA) Student Design Competition, 2009.
- ACM Transactions on Computer-Human Interaction (TOCHI), 2008-2012.
- IEEE Information Visualization Conference (Infovis), 2006-2012.
- Usability Professionals' Association (UPA) Student Design Competition, 2009.
- ACM International Conference on Computer Graphics and Interactive Techniques (Siggraph), 2008.
- Eurographics, 2007.
- IEEE Computer Graphics and Applications, 2006.
- IEEE Pervasive Computing, 2005-2010.
- New Media and Society, 2004-2005.
- Symposium on user Interface Software and Technology (UIST), 2004, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011.
- International Conference on Ubiquitous Computing (UbiComp), 2003-2009, 2014.
- ACM Multimedia 2004-2009.

### *Mentor*

- Design for America (DFA) Mentor and Sponsor, 2014-2021.
- Research Experiences for Undergraduates (REU), 2011, 2019.
- Women in Computer Science (WCS), 2004-2007.

### *MIT Media Arts & Science*

- MASCOM, committee that oversees the graduate student program, 2025-Present.

### *MIT School of Architecture & Planning*

- Future of Rotch Library Committee, 2025-Present.

### *UIUC CS Department*

- CS Interactive Computing (IC) Area Chair, 2023-Present.
- CS CARES Committee, 2021-2025.
- CS STARS Mentor, 2021-Present.
- CS Faculty Mentor, 2009-Present. Currently mentoring 5 faculty members.
- CS Promotion and Tenure Committee, 2020-Present.
- CS Faculty Recruiting Committee, 2017-2018, 2019-2023.
- CS Awards Committee, 2019-2020.
- CS Rising Stars Committee, 2019.
- CS Advisory and Staff Grievance Committee, 2014-2015, 2015-2016 2017-2019.
- CS BRIC Committee to create project and funding opportunities in the CS department, 2018-2020.
- CS Instructional Faculty Recruiting Committee, 2015-2016, 2018-2019.
- CS Search Committee for the next Department Head, 2017-2018.
- CS Department Head 5-year Review Committee, Spring 2015.
- CS Fellowships, Assistantships, and Admissions Committee (FAA), 2014-2015.
- CS Human Computer Interaction (HCI) Area Chair, 2014-2016.
- CS Press Committee, 2011-2014.
- Undergraduate Study Committee, 2005-2010, 2011-2015.
- CS Course and Curriculum Committee (CCC), 2004-2005.
- Undergraduate Curriculum Committee, 2011-2012.
- Graduate Study Committee, 2007-2010, 2012-2016.
- Online Education Committee, 2009.
- Siebel Center Art Coordinator, 2007-2010.
- Undergraduate Mentor, 2006-2010, 2011-2016, 2017-Present.
- Liaison with GSLIS, 2008-2009.
- Cultural Computing Program & Art Steering Committee, 2004-2005, 2005-2006

### *UIUC University*

- UIUC Campus Promotion and Tenure Committee, 2024-2026.
- UIUC University Scholars Selection Committee, 2023, 2024, 2025.
- Science, Technology, Health, Justice Initiative Committee, 2023-2024.
- Informatics PhD Governing Committee, 2023-present.
- UIUC Science Technology Health Justice Working Group, 2023.
- Social Design Minor Visioning Committee, 2019-2022.
- Illinois Data Science Initiative Steering Committee, 2018-2019.
- Integrated Arts Council - Integrative Scholarship in the Arts Working Group, 2014-2015, 2015-2016.
- Design Dialogues Committee, 2015-2016.
- Institute Review Board (full board member), 2013-2016.
- CSL Policy and Planning Committee, 2013-2014, 2014-2015, F2015.
- Informatics PhD Committee, 2012-2013, 2013-2014, 2014-2015, 2015-2016.
- Art and Design Petullo Chair Search Committee, 2008-2009.
- Talk Series, "Women in Computer Science," 2004-2005, 2005-2006.
- Art and Design Faculty Search Committee, 2005-2006.

### *Professional Affiliations*

- Association for Computing Machinery (ACM), 2003-Present. Distinguished Member.
- Institute of Electrical and Electronics Engineers (IEEE), 1994, 2004-Present. Senior Member.
- American Association for the Advancement of Science (AAAS), 2020-Present.

## **STUDENTS ADVISED**

### *Graduated PhD Students*

- Vinay Koshy, graduated 2025. Thesis: Computational Approaches for Democratizing Online Community Governance. Upon completion, Vinay received a post doctoral position at the University of Washington Computer Science Department.

- Tiffany Li (co-advised), graduated 2025. Thesis: Towards the Effective and Responsible Use of Imperfect NLP-generated Learning Content for STEM Personalized Learning. Upon completion, Tiffany received a position as an Assistant Professor at the Stevens Institute of Technology.
- Silas Hsu, graduated 2024. Thesis: Building Better Settings for Online Content Curation. Upon completion, Silas received a position as an Assistant Professor at California Polytechnic State University.
- Ziang Xiao, graduated 2023. Thesis: Seeing Us through Machines: Designing and Building Conversational AI to Understand Humans. Upon completion, Ziang received a position as an Assistant Professor at Johns Hopkins University.
- Kristen Vaccaro, graduated 2020. Thesis: Configuration and Control in Social Media Systems. Upon completion, Kristen became an Assistant Professor at the University of California in San Diego (UCSD).
- Sanorita Dey, graduated 2020. Thesis: A Persuasive Approach to Designing Interactive Tools around the Promises and Perils of Social Platforms. Upon completion, Sanorita became an Assistant Professor at the University of Maryland, Baltimore County.
- Motahhare Eslami, graduated 2019. Thesis: Participating and Designing Around Algorithmic Socio-Technical Systems. Upon completion, Motahhare accepted an Assistant Professor position at Carnegie Mellon University.
- Hidy Kong, graduated 2019. Thesis: Interactive Applications and Rhetorical Devices for Guiding Parent-Clinician Communication through Data Visualizations. Upon completion, Hidy became an Assistant Professor at Seattle University. Now at the Rochester Institute of Technology.
- Jennifer Kim, graduated 2019. Thesis: The Power of Collective Endorsements: Promoting Credibility, Belonging, and Participation in Medical Support Communities. Jennifer became a Presidential Post-Doc/Assistant Professor at Georgia Tech.
- Mary Pietrowicz (co-advised), graduated 2017. Thesis: Exposing the Hidden Vocal Channel: Analysis of Vocal Expression. Upon completion, became a Post-Doc at IBM Watson. Now a researcher at UIUC's Applied Research Laboratory.
- Nikita Spirin (co-advised), graduated 2016. Thesis: Optimizing Search User Interface and Interactions within Professional Social Networks. Upon completion, Nikita formed his own start-up. Now Director of AI at Gigster.
- Joshua Hailpern, graduated 2012. Thesis: Developing HCI Technology to Aid in Communication Research for Individuals with Impairments (a Language and Linguistic Perspective). Upon completion, Josh became a researcher at HP Research Social Computing Labs. He became the Founder/CEO of Kleen Software and is leading Generative AI products at Adobe.
- Brant Chee (co-advised), graduated 2011. Thesis: Exploring Machine Learning Techniques using Patient Interactions in Online Health Forums to Classify Drug Safety. Upon completion, Brant became a researcher at Johns Hopkins.
- Tony Bergstrom, graduated 2011. Thesis: Social Mirrors: Audio Visualization to Augment Social Interactions. Upon completion, Tony went to Desire2Learn. Now Professor of Practice at Purdue University.
- Eric Gilbert, graduated 2010. Thesis: Computing Tie Strength. Upon completion, Eric became an Assistant Professor at Georgia Tech. Now an Associate Professor at the University of Michigan.

#### *Current PhD Students*

- Ti-Chung Cheng (co-advising), expected graduation in 2026.
- Ali Zaidi
- Charlotte Yoder (co-advising)
- Alex Atcheson
- Bhavana Bheem

#### *Graduated MS Students*

- Beleicia Bullock, Understanding How Case Study Type Impacts Students' Ability to Identify Ethical Issues. 8/2021. Beleicia entered the Stanford CS PhD program.
- Zhilin Zhang, Attitudes, Behaviors, and Learning Outcomes from Using ClassTranscribe, a UDL-Featured Video-Based Online Learning Platform with Learnersourced Text-Searchable Captions. 2020-Present (co-advised). 7/2021. Zhilin entered Oxford Computer Science PhD Program.
- Hang Song, Investigating Representational Biases in Stock Photo Website Search Results. 4/2021. Went to the software firm DevRev.
- Heather Huynh. Busting Bias in the Fashion Industry. 8/2020.
- Joon Park, Re-examining the Role of Time in Human-Algorithm Interaction. 5/2020.
- Joshua Asplund, Auditing Race and Gender Discrimination in Online Housing Markets. 5/2019.
- Jingxian Zhang, Borders: visualizing temporal changes in border disputes. 6/2016. Jingxian will pursue a PhD at MIT.
- Jingning Zhang, Fiddler: A visualization prototype interface for making sense of newsfeeds. 5/2015. Jingning went to Facebook.
- Efe Karakus, Comparing Traditional Sports and Electronic Sports. 5/2015. Efe went to Amazon.
- John Lee, Engineering of Notables. 8/2014. John entered the UIUC PhD Program.
- Jicong Wang, Voting on a Mobile Platform. 5/2014. Jicong went to Microsoft.
- Danish Chopra, Mobile Social Mirrors Study. 5/2013. Danish went to Cisco Systems.
- Manoj Krishna, Visualizations for Computer Mediated Group Conversation: Exploring the Influences of Aggregated and Articulated Data Visibility on Group Dynamics. 5/2013. Manoj went to Google.

- Andrew Harris, Large Lectures Are Hard: An Exploration in Meaningful Social Visualizations for Large Group Communication. 5/2012. Andrew went to PayPal.
- Kora Bongen, Metaphotographs: On Representing Digital Photo Collections. 12/2010. Kora went to Cisco Systems.
- Pooja Mathur, Visualizing Remote Voice Conversations: uses from artifacts to archival. 05/2009. Pooja went to Microsoft.
- Joshua Hailpern, The Spoken Impact Project: Using Audio & Visual Feedback to Impact Vocalization in Non-Verbal Children with Autism Spectrum Disorder, 12/2008. Joshua entered the UIUC PhD Program.
- Eric Hinterbichler, Designing a Better Energy Consumption Indicator Interface for the Home, 05/2008. Erik is now working at Pattern Insight.
- Brian Yee. Capturing Colors for Full Body Interaction in Public Spaces, 10/2007. Brian went to FactSet Research Systems.
- Tony Bergstrom, Visualization of Audio Augmenting Social Interactions, 12/2006. Tony entered the UIUC PhD program.
- Ankur Kalra. Spice – Empowering Bloggers and their Communities, 12/2006. Ankur went to Amazon.
- Huong Nguyen, Tabletop Games as Social Catalysts, 08/2006. Huong went to Microsoft.
- Matthew Critchlow. Conveying Social Data on the Desktop with BuddySquares, 08/2006. Matthew went to VMware.
- Sanjit Saluja, A Social Messaging Interface for Location Aware Mobile Interaction, 05/2006. Sanjit went to Microsoft.
- Evan Acharya. MyMap, 05/2006. Evan went to Motorola while he pursued an MBA at the University of Chicago.
- Brian Davis. MCS Student. Brian went to Motorola.

#### *Current Undergraduate Researchers*

- Shreyansh Agrawal
- Janvi Gandhi
- Sam Gerstein
- Helena Ilic
- Pranay Midha
- Kavin Mohan
- Zi Wang

#### *Undergraduate Researchers (non-thesis, not exhaustive)*

- Dylan Huang
- Anika Jain
- Will Koster
- Kelly Mack
- Isaak Park
- Chen Qian
- Swathi Ram
- Yujie Shao
- Hanzi Shen
- Sunaya Shivakumar
- Ming Wen
- Yutong Zhang
- Ding Ziqiao

#### *Undergraduate Senior Theses*

- Owen Xingjian Zhang, 2023. Senior Thesis: The Change of Attitudes and Perceived Effectiveness in First-Time Online Instructors During COVID-19.
- Anne McLaughlin. 2015. Senior Thesis: Investigation of Interactive Computer Science Education for Adult Learners. Anne went to Microsoft.
- Pratik Naik, 2015. Senior Thesis: The Lifecycle of Visual Conversations in a Small Social Network. Startup, String.
- Cole Gleason, 2012-2015. Senior Thesis: Exploring Features for Hackathon Success. Cole pursued a PhD at CMU.
- Sanny Lin, 2012-2014. MFA Student.
- Reed La Botz, Senior Thesis: After Class: Bringing Social to Massive Open Online Courses. 12/2012. Reed went to Google.
- Mo Kudeki, 2011-2012. Senior Thesis: Music Taste and Impression Formation Online. 12/2011. Mo went to Twitter.
- Markus Schober. Markus went to Google.
- Olga Dalecka, 2010-2011. Senior Thesis: Visipoll: Visualizing Student Sentiment on Campus. 12/2011. Olga went to Microsoft.
- John Balamuta, 2008-2010. Senior Thesis: Market Insight from Twitter Traders. 06/2010.
- Jesse Kranzler, 2008-2009. Senior Thesis: Tapping into Twitter: Visualizing Tacit Knowledge. 08/2009.
- Alex Lambert, 2007-2009. Alex went to Microsoft Start-up Labs.
- David Stolarsky, 2007-2008. Senior Thesis: Interfaces for Body, Community, and Architecture, 06/2008. David went to Ars Electronica.

- Eytan Bakshy, 2006-2007. Senior Thesis: A Model of Social Influence and Network Formation, 05/2007. Eytan pursued a PhD at the University of Michigan. Then became a researcher at Facebook.
- Joey Hagedorn, 2007-2008. Joey went to Apple.
- Aylin Selcukoglu, 2006-2007. Aylin pursued an MS at the University of California, Berkeley.
- Sunah Suh, 2006-2008. Sunah pursued a PhD at the Graduate School for Library and Information Sciences at the UIUC.
- Lauren Haynes, 2006-2008. Lauren went to Accenture Labs.
- Gaurav Dubey, 2006-2007. Gaurav pursued an MS at the University of Minnesota.
- Vivek Kale, 2006-2007. Senior Thesis: An Automatic Capture of Information within Organizations and Workgroups, 05/2007.

## POLICY IMPACT

- Facing potential criminal liability (due to the Computer Fraud and Abuse Act, CFAA) in research creating algorithm audits, we sued the US Attorney General with the support of the American Civil Liberties Union (ACLU). The argument: a law intended to prohibit breaking-and-entering hacking should not prohibit audit research designed to inform the public. <https://www.aclu.org/cases/sandvig-v-barr-challenge-cfaa-prohibition-uncovering-racial-discrimination-online>
  - 2016 – Filed suit (becoming Sandvig v. Barr)
  - 2020 – Federal court ruled in “a major victory for civil liberties and civil rights enforcement during the digital age” that algorithm audits do not violate CFAA.
  - 2021 – Karahalios et al amicus [brief](#) cited in Supreme Court case declaring that CFAA (including Terms of Service (ToS)) not be used to inhibit civil rights audits.
  - 2022 – Department of Justice (DOJ) [changed policy](#) around the CFAA [based on our research](#).
- I was invited to discuss audits and community partnerships to inform the White House Office of Science and Technology Policy’s *A Blueprint for an AI Bill of Rights: Making Automated Systems Work for the American People*. October 2022. <https://bidenwhitehouse.archives.gov/ostp/ai-bill-of-rights/>

## PUBLICATIONS

### Book

- The Marquand House Collective (Marc Aidinoff, Lena Armstrong, Esha Bhandari, Ellery Roberts Biddle, Motahhare Eslami, Karrie Karahalios, Nate Matias, Danaë Metaxa, Alondra Nelson, Christian Sandvig, and Kristen Vaccaro). *Auditing AI*. Cambridge: MIT Press. (Forthcoming 2026).

### Journal Papers

- Michael C. Loui (lead), Nigel Bosch, Anita Say Chan, Jenny L. Davis, Rochelle Gutiérrez, Jingrui He, Karrie Karahalios, Sanmi Koyejo, Ruby Mendenhall, Madelyn Rose Sanfilippo, Hanghang Tong, Lav R. Varshney, Yang Wang. Artificial Intelligence, Social Responsibility, and the Roles of the University. *Communications of the ACM*, August 2024.
- Danaë Metaxa, Joon Sung Park, Ronald E. Robertson, Karrie Karahalios, Christo Wilson, Jeff Hancock and Christian Sandvig. Auditing Algorithms: Understanding Algorithmic Systems from the Outside In. *Foundations and Trends in Human-Computer Interaction*: Vol. 14: No. 4, 2021, pp 272-344.
- J. Kulshrestha, M. Eslami, J. Messias, M.B. Zafar, S. Ghosh, K.P. Gummadi, and K. Karahalios. Search bias quantification: investigating political bias in social media and web search. *Information Retrieval Journal*, pp.1-40, 2018.
- Mariana Aparicio Betancourt, Laura S. Dethorne, Karrie Karahalios, Jennifer G. Kim. Skin Conductance as an In Situ Marker for Emotional Arousal in Children with Neurodevelopmental Communication Impairments: Methodological Considerations and Clinical Implications. *ACM Transactions on Accessible Computing (TACCESS)*, Volume 9, Issue 3, February 2017.
- Christian Sandvig, Kevin Hamilton, Karrie Karahalios, Cedric Langbort. When the Algorithm Itself Is a Racist: Diagnosing Ethical Harm in the Basic Components of Software. *International Journal of Communication (IJoC)*, 2016.
- Laura DeThorne, Mariana Aparicio Betancourt, Karrie Karahalios, Jim Halle, Ellen Bogue. Visualizing Syllables: Real-Time Computerized Feedback Within a Speech-Language Intervention. *Journal of Autism and Developmental Disorders*. Volume 45, Issue 11, November 2015, pp. 3756-3763.
- K. Hamilton, K. Karahalios, C. Sandvig, and C. Langbort. The Image of the Algorithmic City: a Research Approach. *Interaction Design and Architectures*, no. 20, Spring 2014, pp. 61-71.
- Eric Gilbert and Karrie Karahalios. Computing and Building Around Tie Strength in Social Media. *Foundations and Trends in Human-Computer Interaction*: Vol. 7: No. 3, 2014, pp 237-349.

- Eric Gilbert, Karrie Karahalios, and Christian Sandvig. The Network in the Garden: Designing Social Media for Rural Life. *American Behavioral Scientist*, Special Issue on the Internet in Rural Life. vol. 53 no. 9. 2010., pp. 1367-1388.
- Karrie Karahalios and Tony Bergstrom. Social Mirrors as Social Signals: Transforming Audio into Graphics. *IEEE Computer Graphics and Applications*. Volume 29, Issue 5. September/October 2009, pp. 22-32.
- Joshua Hailpern, Karrie Karahalios, James Halle. A3: HCI Coding Guideline for Research Using Video Annotation to Assess Behavior of Non-Verbal Subjects with Computer Based Intervention. *ACM Transactions on Accessible Computing*, Volume 2, Issue 2, June 2009.
- Eric Gilbert and Karrie Karahalios. Using Social Visualization to Motivate Social Production. *IEEE Transactions on Multimedia*, Special Issue on Communities and Media Computing. Volume 11, Issue 3, April 2009, pp. 413-421.
- Hossein Mobahi and Karrie G. Karahalios. HCI Potentials for aiding children with mental disorders. *ACM Crossroads*. Volume 12 Issue 2, December 2005.
- Judith Donath, Karrie Karahalios, Fernanda Viégas. Visualizing Conversation. Persistent Conversations. *Journal of Computer Mediated Communication*. vol. 4, no. 4, 1999.

#### *Book Chapters*

- Eric Gilbert and Karrie Karahalios. Social Software as Social Science. *Digital Confidential*. eds. Eszter Hargittai and Christian Sandvig. The MIT Press, 2015.
- C. Sandvig, K. Hamilton, K. Karahalios, & C. Langbort. An Algorithm Audit. In: Seeta Peña Gangadharan (ed.), *Data and Discrimination: Collected Essays*, pp. 6-10. Washington, DC: New America Foundation. 2014.
- Karrie Karahalios. Physical Embodiment of Virtual Presence. *Ubiquitous Learning*. eds. Bill Cope and Mary Kalantzis. University of Illinois Press, 2010.
- Karrie Karahalios. Social Catalysts for Creating Media Spaces. *Media Space: 20+ Years of Mediated Life*. ed. Steve Harrison. Springer, 2009.

#### *Peer-Reviewed Proceedings/Conference Papers*

- A. Karan, N. Vincent, K. Karahalios, H. Sundaram. Algorithmic Collective Action with Two Collectives. *ACM Conference on Fairness, Accountability, and Transparency (FAccT)*. 2025.
- Ali Zaidi and Karrie Karahalios. From Sociotechnical Gaps to Solutions: Designing AI Tools with Parents to Address Special Education Advocacy Barriers in IEP Processes. *The ACM Designing Interactive Systems (DIS) Conference*. 2025.
- Alex Atcheson, Omar Khan, Brian Siemann, Anika Jain, Karrie Karahalios. "I'd Never Actually Realized How Big An Impact It Had Until Now": Perspectives of University Students with Disabilities on Generative Artificial Intelligence. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2025.
- Ti-Chung Cheng, Yutong Zhang, Yi-Hung Chou, Vinay Koshy, Tiffany Wenting Li, Karrie Karahalios, Hari Sundaram. Organize, Then Vote: Exploring Cognitive Load in Quadratic Survey Interfaces. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2025.
- Silas Hsu, Vinay Koshy, Kristen Vaccaro, Christian Sandvig, Karrie Karahalios. Placebo Effect of Control Settings in Feeds Are Not Always Strong. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2025.
- Jialu Li, Mark Hasegawa-Johnson, and Karrie Karahalios. Enhancing Child Vocalization Classification with Phonetically-Tuned Embeddings for Assisting Autism Diagnosis. *Interspeech 2024*, June 2024.
- Silas Hsu and Karrie Karahalios. Choosing What You Want Versus Getting What You Want: An Experiment with Choice in Video Ad Placement. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2024.
- Vinay Koshy, Alex Atcheson, Karrie Karahalios. Not What it Used to Be: Characterizing Content and User-base Changes in Newly Created Online Communities. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2024.
- Vinay Koshy, Tanvi Bajpai, Eshwar Chandrasekharan, Hari Sundaram, Karrie Karahalios. Measuring User-Moderator Alignment on r/ChangeMyView. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2023. **Best Paper (Top 1% of Submissions)**.
- Ziang Xiao, Tiffany Wenting Li, Karrie Karahalios, and Hari Sundaram. Inform the Uninformed: Improving Online Informed Consent Reading with an AI-Powered Chatbot. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2023.
- Tiffany Wenting Li and Silas Hsu (co-first authors), Max Fowler, Zhilin Zhang, Craig Zilles, and Karrie Karahalios. Am I Wrong, or is the Autograder Wrong? Effects of AI Grading Mistakes and Error Rate Perception on Learning. *ACM Conference on International Computing Education Research (ICER)*, 2023.
- Ali Zaidi, Rui Yang, Vinay Koshy, Camille Cobb, Indranil Gupta, Karrie Karahalios. A User-Centric Evaluation of Smart Home Resolution Approaches for Conflicts Between Routines. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*, 2023.

- Jennifer Kim, Robert E. Kraut, Karrie Karahalios. Designing a Medical Crowdfunding Website from Sense of Community Theory. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2022.
- Sanorita Dey, Brittany R.L. Duff, Karrie Karahalios. Re-imagining the Power of Priming and Framing Effects in the Context of Political Crowdfunding Campaigns. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2022.
- Kristen Vaccaro, Ziang Xiao, Kevin Hamilton, Karrie Karahalios. Contestability For Content Moderation. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2021.
- Ti-Chung Cheng, Tiffany Wenting Li, Yi-Hung Chou, Karrie Karahalios, Hari Sundaram. "I can show what I really like.": Eliciting Preferences via Quadratic Voting. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2021.
- Sajjadur Rahman, Mangesh Bendre, Yuyang Liu, Shichu Zhu, Zhaoyuan Su, Karrie Karahalios, Aditya Parameswaran. NOAH: Interactive Spreadsheet Exploration with Dynamic Hierarchical Overviews. *47th International Conference on Very Large Data Bases (VLDB)*, September 2021.
- Doris Jung-Lin Lee, Vidya Setlur, Melanie Tory, Karrie Karahalios, Aditya Parameswaran. Deconstructing Categorization in Visualization Recommendation: A Taxonomy and Comparative Study. *IEEE International Conference on Information Visualization (Info Vis)*, October 2021.
- Silas Hsu, Tiffany Wenting Li, Zhilin Zhang, Max Fowler, Craig Zilles, Karrie Karahalios. Attitudes Surrounding an Imperfect AI Autograder. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2021.
- Vinay Koshy, Joon Sung Park, Ti-Chung Cheng, Karrie Karahalios. "We Just Use What They Give Us": Understanding Passenger User Perspectives in Smart Homes. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2021. **Honorable Mention (Top 5% of Submissions)**.
- Zhicong Lu, Rubaiat Habib Kazi, Li-yi Wei, Mira Dontcheva, Karrie Karahalios. StreamSketch: Exploring Multi-Modal Interactions in Creative Live Streams. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2021.
- Kristen Vaccaro, Christian Sandvig, Karrie Karahalios. "At the End of the Day Facebook Does What It Wants": How Users Experience Contesting Algorithmic Content Moderation. *Proceedings of the ACM on Human-Computer Interaction, CSCW2*, October 2020.
- Tiffany Wenting Li, Karrie Karahalios, Hari Sundaram. "It's all about conversation": Challenges and Concerns of Faculty and Students in the Arts, Humanities, and the Social Sciences about Education at Scale. *Proceedings of the ACM on Human-Computer Interaction, CSCW2*, October 2020.
- Doris Lee, Tarique Siddiqui, Karrie Karahalios, Aditya Parameswaran. Three Lessons from Accelerating Scientific Insight Discovery via Visual Querying. *Patterns, Cell Press*, Volume 1, Issue 7, 100126, October, 2020.
- Tarique Siddiqui, Paul Luh, Zesheng Wang, Karrie Karahalios, Aditya Parameswaran. ShapeSearch: A Flexible and Efficient System for Shape-based Exploration of Trendlines. *Proceedings of the 2020 ACM SIGMOD International Conference on Management of Data (SIGMOD)*, 2020. **Best Paper Award** (2 out of 450+ submissions).
- Sajjadur Rahman, Kelly Mack, Mangesh Bendre, Ruilin Zhang, Karrie Karahalios, Aditya Parameswaran. Benchmarking Spreadsheet Systems. *Proceedings of the SIGMOD International Conference on Management of Data*, June 2020.
- Jennifer Kim, Ha-Kyung Kong, Hwajung Hong, Karrie Karahalios. Enriched Social Translucence in Medical Crowdfunding. *Proceedings of the 2020 ACM Designing Interactive Systems (DIS) Conference*, July 2020.
- Silas Hsu, Kristen Vaccaro, Yue Yin, Aimee Rickman, Karrie Karahalios. Awareness, Navigation, and Use of Feed Control Settings Online. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2020. (Acceptance Rate: 23.8%)
- Ha-Kyung Kong and Karrie Karahalios. Facilitating Parent-Clinician Communication on Developmental Delays through Visualizations. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2020. (Acceptance Rate: 23.8%)
- Sijia Xiao, Danaë Metaxa, Joon Sung Park, Karrie Karahalios, Niloufar Salehi. Random, Messy, Funny, Raw: Finstas as Intimate Reconfigurations of Social Media. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2020. (Acceptance Rate: 23.8%)
- Emily M. Hastings, Albatool Alamri, Andrew Kuznetsov, Christine Pisarczyk, Karrie Karahalios, Darko Marinov, Brian Bailey. LIFT: Integrating Stakeholder Voices into Algorithmic Team Formation. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2020. (Acceptance Rate: 23.8%)
- Joshua Asplund, Motahhare Eslami, Hari Sudaram, Christian Sandvig, Karrie Karahalios. Auditing Race and Gender Discrimination in Online Housing Markets. *International AAAI Conference on Web and Social Media (ICWSM)*, 2020.
- D. Lee, J. Lee, T. Siddiqui, J. Kim, K. Karahalios, A. Parameswaran. You can't always sketch what you want: Understanding Sensemaking in Visual Query Systems. VAST'19 at VIS: *IEEE International Conference on Visual Analytics Science & Technology*, 2019.
- Ziang Xiao, Po-Shiun Ho, Xinran Wang, Karrie Karahalios, Hari Sundaram. Should We Use an Abstract Comic Form to Persuade? Experiments with Online Charitable Donation. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2019.
- Joon Sung Park, Rick Barber, Alex Kirlik, Karrie Karahalios. A Slow Algorithm Improves Users' Assessments of the Algorithm's Accuracy. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2019.

- Himel Dev, Karrie Karahalios, Hari Sundaram. Quantifying Voter Biases in Online Platforms: An Instrumental Variable Approach. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2019. **Honorable Mention.**
- Sanorita Dey, Wai-Tat Fu, Karrie Karahalios. Understanding the Effect of the Combination of Navigation Tools in Learning Spatial Knowledge. *ACM Spatial User Interaction*, 2019. (Acceptance Rate: 25%)
- H. Kong, Z. Liu, K. Karahalios. Trust and Recall of Information across Varying Degrees of Title-Visualization Misalignment. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2019. (Acceptance Rate: 23.8%)
- H. Kong, W. Zhu, Z Liu, K. Karahalios. Understanding Visual Cues in Visualizations Accompanied by Audio Narrations. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2019. (Acceptance Rate: 23.8%)
- M. Eslami, K. Vaccaro, M.K. Lee, A.E.B. On, Gilbert, K. Karahalios. User Attitudes towards Algorithmic Opacity and Transparency in Online Reviewing Platforms. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2019. (Acceptance Rate: 23.8%)
- Mary Pietrowicz, Carla Agurto, Jonah Casebeer, Mark Hasegawa-Johnson, Karrie Karahalios, and Guillermo Cecchi. Dimensional Analysis of Laughter in Female Conversational Speech. The 44th *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2019. (Acceptance Rate: 46.5%)
- Mingkun Gao, Ziang Xiao, Karrie Karahalios, Wai-Tat Fu. To Label or Not to Label: The Effect of Stance and Credibility Labels on Readers' Selection and Perception of News Articles. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2018. (Acceptance Rate: 26%)
- Emily M. Hastings, Farnaz Jahanbakhsh, Karrie Karahalios, Darko Marinov, Brian P. Bailey. Structure or Nurture?: The Effects of Team-Building Activities and Team Composition on Team Outcomes. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2018. (Acceptance Rate: 26%)
- M. Eslami, S. R. Krishna Kumaran, C. Sandvig, and K. Karahalios. Communicating Algorithmic Process in Online Behavioral Advertising. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2018. (Acceptance Rate: 25.7%)
- K. Vaccaro, D. Huang, M. Eslami, C. Sandvig, K. Hamilton, and K. Karahalios. The Illusion of Control: Placebo Effects of Control Settings. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2018. (Acceptance Rate: 25.7%)
- J.G. Kim, H. Hong, and K. Karahalios. Understanding Identity Presentation in Medical Crowdfunding. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2018. (Acceptance Rate: 25.7%)
- H. Kong, Z. Liu, and K. Karahalios. Frames and Slants in Titles of Visualizations on Controversial Topics. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2018. (Acceptance Rate: 25.7%)
- S. Dey, K. Karahalios, W.T. Fu. Effects of Socially Stigmatized Crowdfunding Campaigns in Shaping Opinions. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2018. (Acceptance Rate: 25.7%) **Honorable Mention.**
- H. Kong, J. Lee, and K. Karahalios. A Comparative Study of Visualizations with Different Granularities of Behavior for Communicating about Autism. *Proceedings of the ACM on Human-Computer Interaction, CSCW*, 2017. (Acceptance Rate: 27%)
- Sajjadur Rahman, Maryam Aliakbarpour, Ha Kyung Kong, Eric Blais, Karrie Karahalios, Aditya Parameswaran, Ronitt Rubinfeld. I've Seen "Enough": Incrementally Improving Visualizations to Support Rapid Decision Making. *43rd International Conference on Very Large Data Bases (VLDB)*, September 2017.
- Hidy Kong, Leo Liu, Karrie Karahalios. Internal and External Visual Cue Preferences for Visualizations in Presentations. *19th EG/VGTC Conference on Visualization*, 2017.
- Motahhare Eslami, Kristen Vaccaro, Karrie Karahalios, Kevin Hamilton. "Be careful; things can be worse than they appear": Understanding Biased Algorithms and Users' Behavior around Them in Rating Platforms. *International AAAI Conference on Web and Social Media (ICWSM)*, 2017. (Acceptance Rate: 14%)
- Farnaz Jahanbakhsh, Wai-Tat Fu, Karrie Karahalios, Darko Marinov, Brian Bailey. You Want Me to Work with Who? Stakeholder Perceptions of Automated Team Formation in Engineering Courses. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2017. 12pp. (Acceptance Rate: 25%) **Best Paper Award.**
- Sanorita Dey, Karrie Karahalios, Wai-Tat Fu. Understanding the Effects of Endorsements for Scientific Crowdfunding. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2017. (Acceptance Rate: 25%)
- Tarique Siddiqui, Albert Kim, John Lee, Karrie Karahalios, Aditya Parameswaran. Effortless Visual Data Exploration with Zenvisage: An Interactive and Expressive Visual Analytics System. *43rd International Conference on Very Large Data Bases (VLDB)*, September 2017.
- Mary Pietrowicz, Mark Hasegawa-Johnson, Karrie Karahalios. Discovering Dimensions of Perceived Vocal Expression in Semi-structured, Unscripted Oral History Accounts. *The 42nd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2017. (Selected for oral presentation).
- Juhi Kulshrestha, Motahhare Eslami, Johnnatan Messias, Muhhammad Bilal Zafar, Saptarshi Ghosh, Krishna Gummadi, Karrie Karahalios. Quantifying Search Bias: Investigating Sources of Bias for Political Searches in Social Media. *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW)*, 2017. (Acceptance Rate: 34.5%)

- Jennifer Kim, Kristen Vaccaro, Karrie Karahalios, Hwajung Hong. "Not by Money Alone": Social Support Opportunities in Medical Crowdfunding Campaigns. *Proceedings of the ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW)*, 2017. (Acceptance Rate: 34.5%)
- Sanorita Dey, Brittany Duff, Karrie Karahalios, Wai-Tat Fu. A Video is Worth a Million Backers: Analyzing the Effects of Campaign Videos in Kickstarter. *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW)*, 2017. (Acceptance Rate: 34.5%)
- Ha-Kyung Kong and Karrie Karahalios. Parental Perceptions, Experiences, and Desires of Music Therapy. *Proceedings of the American Medical Informatics Association (AMIA) Annual Symposium*, 2016.
- John Lee, Ha-Kyung Kong, Sanny Lin, Karrie Karahalios. Plexlines: Tracking Socio-communicative Behaviors Using Timeline Visualizations. *Proceedings of the American Medical Informatics Association (AMIA) Annual Symposium*, 2016. Selected as student paper finalist.
- Nikita Spirin, Alexander Kotov, Karrie Karahalios, Vassil Mladenov, Pavel Izhutov. A Comparative Study of Query-biased and Non-redundant Snippets for Structured Search on Mobile Devices. *Conference on Information and Knowledge Management (CIKM)*, 2016. (Acceptance Rate: 28.9%)
- Kristen Vaccaro, Sunaya Shivakumar, Ziqiao Ding, Ranjitha Kumar, and Karrie Karahalios. The Elements of Fashion Style. *ACM Symposium on User Interface Software and Technology (UIST)*, 2016. (Acceptance Rate: 20.6%)
- J. Lee, H. Kong, S. Ding, K. Karahalios. Engaze: Designing Behavior Visualizations with and for Behavioral Scientists. *Proceedings of the ACM Conference on Designing Interactive Systems (DIS)*, 2016. (Acceptance Rate: 26%)
- Gary Soeller, Karrie Karahalios, Christian Sandvig and Christo Wilson. MapWatch: Detecting and Monitoring International Border Personalization on Online Maps. *World Wide Web Conference (WWW)*, 2016. (Acceptance Rate: 15.8%)
- J. Kim, H. Kong, K. Karahalios, W. Fu, and H. Hong. The Power of Collective Endorsements: Credibility Factors in Medical Crowdfunding Campaigns. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2016. (Acceptance Rate: 23.5%)
- M. Eslami, K. Karahalios, C. Sandvig, K. Vaccaro, A. Rickman, K. Hamilton, and A. Kirlik. First I "Like" It Then I Hide it: Folk Theories of Social Feeds. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2016. (Acceptance Rate: 23.5%)
- H. Kong, W. Wu, B. Bailey, and K. Karahalios. Culture, Imagined Audience, and Language Choices of Multilingual Chinese and Korean Students on Facebook. *International Conference on Social Informatics (SocInfo)*, 2015. (Acceptance Rate: 45%)
- J. Kim, S. Park, K. Karahalios, and M. Twidale. Labor Saving and Labor Making of Value in Online Congratulatory Messages. *International Conference on Social Informatics (SocInfo)*, 2015. (Acceptance Rate: 45%)
- C. Sandvig, K. Hamilton, K. Karahalios, C. Langbort. Can an algorithm be unethical? Paper presented to the 65th annual meeting of the *International Communication Association*, May 2015. (General Acceptance Rate: 45%)
- J. Kim, M. Snodgrass, M. Pietrowicz, and K. Karahalios. Visual Analysis of Relationships between Behavioral and Physiological Sensor Data. *IEEE International Conference on Healthcare Informatics (ICHI)*, 2015. (Acceptance Rate: 28%)
- T. Gao, M. Dontcheva, E. Adar, Z. Liu, K. Karahalios. DataTone: Managing Ambiguity in Natural Language Interfaces for Data Visualization. *ACM User Interface Software and Technology Symposium (UIST)*, 2015. (Acceptance Rate: 24%)
- M. Pietrowicz, M. Hasegawa-Johnson, K. Karahalios. Acoustic Correlates for Perceived Effort Levels in Expressive Speech. *InterSpeech 2015*. (Acceptance Rate: 51%)
- C. Sandvig, K. Hamilton, & K. Karahalios. We Guess Your Algorithm. 15th Annual Meeting of the Association of Internet Researchers (AoIR), Bangkok, Thailand. October 2014.
- M. Eslami, A. Rickman, K. Vaccaro, A. Aleyasen, A. Vuong, K. Karahalios, K. Hamilton, and C. Sandvig. I always assumed that I wasn't really that close to [her]: Reasoning about invisible algorithms in the news feed. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2015. (Acceptance Rate: 23%) **Best Paper Award**.
- M. Eslami, A. Aleyasen, R. Zilouchian Moghaddam, and K. Karahalios. Friend Grouping Algorithms for Online Social Networks: preference, bias, and implications. *International Conference on Social Informatics (SocInfo)*, 2014. (Acceptance Rate: 23%)
- C. Sandvig, K. Hamilton, K. Karahalios, & C. Langbort. Auditing Algorithms: A Research Method for Detecting Discrimination on Internet Platforms. 64th annual meeting of the International Communication Association, Preconference on Data and Discrimination, Seattle, Washington, USA. May 2014.
- N. Spirin, J. He, M. Develin, K. Karahalios, M. Boucher. People Search within an Online Social Network: Large Scale Analysis of Facebook Graph Search Query Logs. *Conference on Information and Knowledge Management (CIKM)*, 2014. (Acceptance Rate: 21%)
- Shih-Wen Huang, Daniel Tunkelang, Karrie Karahalios. The Role of Network Distance in LinkedIn People Search. *ACM Special Interest Group on Information Retrieval (SIGIR) Conference*. 2014. (Acceptance Rate: 39%)
- M. Pietrowicz, D. Chopra, A. Sadeghi, P. Chandra, B.P. Bailey, and K. Karahalios. CrowdBand: An Automated Crowdsourcing Sound Composition System. *Conference on Human Computation & Crowdsourcing (HCOMP)*, 2013. (Acceptance Rate: 30%)

- K. Hamilton, K. Karahalios, C. Langbort, & C. Sandvig. The Image of the Data City: Perception in Shared Information Spaces. *Smart City Exposition and World Congress*, Bologna, Italy. October 2013.
- M. Pietrowicz and K. Karahalios. Sonic Shapes: Visualizing Vocal Expression. *International Conference on Auditory Displays (ICAD)*, 2013.
- Mo Kudeki and Karrie Karahalios. Likeness and Dealbreakers: Interpreting Interpersonal Compatibility from Online Music Profiles. *Proceedings of IFIP Human-Computer Interaction (INTERACT)*, 2013. (Acceptance Rate: 31%)
- J. Hailpern, M. Danilevsky, A. Harris, S. Sunnah, R. LaBotz, K. Karahalios. ACES: A Cross-Discipline Platform and Method for Communication and Language Research. *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW)*, 2013. (Acceptance Rate: 36%)
- J. Hailpern, R. LaBotz, B. Birman, K. Karahalios, L. DeThorne, J. Halle. Designing Visualizations to Facilitate Multisyllabic Speech with Children with Autism and Speech Delays. *Proceedings of the ACM Designing Interactive Systems (DIS) 2012 Conference*. (Acceptance Rate: 20 %)
- Tao Dong, Mira Dontcheva, Diana Joseph, Karrie Karahalios, Mark W. Newman, Mark Ackerman. Discovery-based Games for Learning Software. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2012. (Acceptance Rate: 23%)
- Tony Bergstrom and Karrie Karahalios. Distorting Social Feedback in Visualizations of Conversation. *Proceedings of the 45th Annual Hawaii International Conference on System Sciences (HICSS-45)*, 2012.
- J. Hailpern, M. Danilevsky, and K. Karahalios. ACES: Aphasia Emulation, Realism, and the Turing Test. *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*, 2011. (Acceptance Rate: 30%)
- Tony Bergstrom, Andrew Harris and Karrie Karahalios. Encouraging Initiative in the Classroom with Anonymous Feedback. *Proceedings of IFIP Human-Computer Interaction (INTERACT)*, 2011. (Acceptance Rate: 28%)
- J. Hailpern, M. Danilevsky, A. Harris, K. Karahalios, G. Dell, J. Hengst. ACES: Promoting Empathy Towards Aphasia Through Language Distortion Emulation Software. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2011. (Acceptance Rate: 26%)
- J. Hailpern, N. Jitkoff, A. Warr, K. Karahalios, R. Sesek, N. Shkrob. YouPivot: Improving Recall with Contextual Search. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2011. (Acceptance Rate: 26%)
- Eric Gilbert and Karrie Karahalios. Widespread Worry and the Stock Market. *International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2010. (Acceptance Rate: 18%)
- J. Hailpern, N. Jitkoff, J. Subida, and K. Karahalios. The CLOTHO Project: Predicting Application Utility. *Proceedings of the ACM Designing Interactive Systems (DIS) Conference*, 2010. (Acceptance Rate: 15%)
- Eric Gilbert and Karrie Karahalios. The Motivations of Deja Reviewers. *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW)*, 2010. (Acceptance Rate: 20.1%) **Best Paper Award**.
- Reza Shiftehfar, Mani Golparvar-Fard, Feniosky, Peña-Mora, Karrie G. Karahalios, Zeeshan Aziz. Application of Visualization for Construction Emission Monitoring. *2010 Construction Research Congress*. 2010. pp. 1396-1405.
- Joshua Hailpern, Karrie Karahalios, Laura DeThorne, and Jim Halle. Talking Points: The differential impact of real-time computer generated audio/visual feedback on speech-like & non-speech-like vocalizations in low functioning children with ASD. *Proceedings of the 11th international ACM SIGACCESS Conference on Computers and Accessibility*, 2009. (Acceptance Rate: 31%)
- Tony Bergstrom and Karrie Karahalios. Vote and Be Heard: Adding Back-Channel Signals to Social Mirrors. *Proceedings of IFIP Human-Computer Interaction (INTERACT)*, 2009. (Acceptance Rate: 27%)
- Eric Gilbert and Karrie Karahalios. Predicting Tie Strength with Social Media. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2009. (Acceptance Rate: 24.5%) **Best Paper Award**.
- Joshua Hailpern, Karrie Karahalios, James Halle, Mary-Kelsey Coletto. Creating a Spoken Impact: encouraging vocalization through audio visual feedback in children with ASD. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2009. (Acceptance Rate: 24.5%)
- Tony Bergstrom and Karrie Karahalios. Conversation Clusters: Grouping Conversation Topics through Human-Computer Dialog. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2009. (Acceptance Rate: 24.5%)
- Eric Gilbert, Tony Bergstrom, and Karrie Karahalios. Blogs are Echo Chambers: Blogs are Echo Chambers. *Proceedings of the 42nd Annual Hawaii International Conference on System Sciences (HICSS-42)*, 2009. (Track Acceptance Rate: 47%)
- Brant Chee, Karrie Karahalios, and Bruce Schatz. Social Visualization of Health Messages. *Proceedings of the 42nd Annual Hawaii International Conference on System Sciences (HICSS-42)*, 2009. 10pp. (Track Acceptance Rate: 47%)
- J. Hailpern, K. Karahalios, J. Halle, L.S. DeThorne, and M. Coletto. A3: A Coding Guideline for HCI+Autism Research using Video Annotation. *Proceedings of the 10th international ACM SIGACCESS Conference on Computers and Accessibility*, 2008. (Acceptance Rate: 36%)

- Eric Gilbert, Karrie Karahalios, and Christian Sandvig. The Network in the Garden: An Empirical Analysis of Social Media in Rural Life. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI)*, 2008. (Acceptance Rate: 22%) **Best Paper Award**.
- Joey Hagedorn, Joshua Hailpern, and Karrie G. Karahalios. VCode and VData: Illustrating a new Framework for Supporting the Video Annotation Workflow. *Proceedings of the International Working Conference on Advanced Visual Interfaces (AVI)*, 2008. (Acceptance Rate: 26%)
- Tony Bergstrom and Karrie Karahalios. Seeing More: Visualizing Audio Cues. *Proceedings of IFIP Human-Computer Interaction (INTERACT)*, 2007. pp. 29-42. (Acceptance Rate: 33%)
- Eric Gilbert and Karrie Karahalios. CodeSaw: A Social Visualization of Distributed Software Development. *Proceedings of IFIP Human-Computer Interaction (INTERACT)*, 2007. (Acceptance Rate: 33%)
- Lauren Haynes, Aylin Selcukoglu, Sunah Suh, and Karrie Karahalios. Tagscape: Navigating the Tag Landscape. *Proceedings of IFIP Human-Computer Interaction (INTERACT)*, 2007. (Acceptance Rate: 33%)
- Tony Bergstrom, Karrie Karahalios and John C. Hart. Isochords: Visualizing Structure in Music. *Proceedings of the 2007 Conference on Graphics Interface*, 2007. (Acceptance Rate: 48%)
- B. Al Shebli, E. Gilbert, and K. Karahalios. An In Situ Study of an Alert System for Assisted Living. *Proceedings of the Twelfth International Conference on Human-Computer Interaction (HCI)*, 2007.
- Tony Bergstrom and Karrie Karahalios. Conversation Clock: Visualizing audio patterns in co-located groups. *Proceedings of the 40th Annual Hawaii International Conference on System Sciences (HICSS-40)*, 2007. (Acceptance Rate: 42%)
- Brian Davis and Karrie Karahalios. Telelogs: A Social Communication Space for Urban Environments. *Proceedings of 7th conference on Human-computer interaction with mobile devices and services (MobileHCI)*, 2005. (Acceptance Rate: 25%)
- M. Ian Graham and Karrie Karahalios. ChatAmp: Talking with Music and Text. *Proceedings of IFIP Human-Computer Interaction (INTERACT)*, 2005. (Acceptance Rate: 27%)
- Ankur Kalra and Karrie Karahalios. Texttone: Expressing Emotion Through Text. *Proceedings of IFIP Human-Computer Interaction (INTERACT)*, 2005. (Acceptance Rate: 27%)
- Karrie Karahalios , Kelly Dobson. Chit Chat Club: Bridging Virtual and Physical Space for Social Interaction. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI)*, 2005. (Acceptance Rate: 25%)
- Karrie Karahalios, Judith S. Donath. Telemurals: Linking Remote Spaces with Social Catalysts, *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI)*, 2004. (Acceptance Rate: 16%)
- Judith Donath, Karrie Karahalios, Fernanda Viégas. Visiphone: Connecting Domestic Spaces with Audio. *Proceedings of the International Conference for Auditory Display (ICAD)*, 2000.
- Joey Rozier, Karrie Karahalios, Judith Donath. Hear & There: an augmented reality system of linked audio. *Proceedings of the International Conference for Auditory Display (ICAD)*, 2000.
- J. Donath, K. Karahalios, F. Viégas. Visualizing Conversations. *Proceedings of the 32nd Annual Hawaii International Conference on System Sciences (HICSS-32)*, 1999.

#### *Invited Papers*

- C. Sandvig, K. Hamilton, K. Karahalios, & C. Langbort. Re-Centering the Algorithm. Paper presented to the Symposium on Governing Algorithms: Computation, Automation, and Control, New York University, New York, NY, USA. May 2013.
- Qixin Wang, Wook Shin, Xue Liu, Zheng Zeng, Cham Oh, Bedoor K. Alshebli, Marco Caccamo, Carl A. Gunter, Elsa Gunter, Jennifer Hou, Karrie Karahalios, and Lui Sha, I-Living: An Open System Architecture for Assisted Living, invited paper in *Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, 2006. pp.4268-4275.

#### *Workshops/Panels/Contests Organized*

- Hannah Emily Burnett Conner (Organizer), Ryan Cordell, Phillip Kalantzis Cope. Could AI Make a Zine? University of Illinois. October 2025.
- Guo Freeman, Elizabeth Mynatt, Cliff Lampe, Heloisa Candello, Kori Inkpen, Nitesh Goyal, Karrie Karahalios. The Impact of Generative AI on the CSCW Landscape: Insights from HCI Education, Industry Dynamics, and Funding Perspectives. CSCW Panel. October 2025.
- Karrie Karahalios, Alex Atcheson, August Trepanier, Omar Khan, Ruha Williams. Disability Justice Workshop. Brining together Legal Experts, Disability Researchers, Local Community Organizations, Public Health Experts, and UIUC Disability Community Members for one day of talks and discussions and a second day of design, October 13-14, 2023. <https://just-infras.illinois.edu/disability-justice/>
- Kamala Visweswaran and Karrie Karahalios. Digital Contact Tracing Systems and Vulnerable Populations. Joint Rice University-University of Illinois Workshop bringing together Public Health Departments, Sociologists, Legal Experts, and Computer Scientists, April 30, 2021.

- Michael Bernstein, Irene Greif, Wendy E. Mackay, Hiroshi Ishii, Jonathan Grudin, Karrie Karahalios, Meredith Ringel Morris, Aniket Kittur, Jaimie Teevan, Amy X. Zhang, Niloufar Salehi. *UIST+CSCW: A Celebration of Systems Research in Collaborative and Social Computing*. Joint UIST+CSCW Panel. In *Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology*, pp. 1-3, November 2020.
- Kristen Vaccaro, Karrie Karahalios, Deirdre K. Mulligan, Daniel Kluttz, Tad Hirsch. *Contestability in Algorithmic Systems*. Workshop at the ACM Conference on Computer Supported Cooperative Work (CSCW), 2019.
- Anthony Hoogs, Deirdre Mulligan, Lise Getoor, Ayanna Howard, Karrie Karahalios. *Designing for Values, Interactivity, Contestability, & Ethics in Systems (DeVICES)*. DARPA ISAT Workshop, April 2019.
- Mike DeVito, Jeffrey Hancock, Megan French, Judd Antin, Karrie Karahalios, Stephanie Tong. *The Algorithm and the User: How Can HCI Use Lay Understandings of Algorithmic Systems?* Panel at the Conference on Human Factors in Computing Systems (CHI), April 2018.
- Kevin Hamilton, Karrie Karahalios, Cedric Langbort, Casey Pierce, Christian Sandvig. *Auditing Algorithms: Adding Accountability to Automated Authority*. NSF Funded workshop at the University of Michigan, September 28-30, 2017.
- Karrie Karahalios, Ben Grosser, Kevin Hamilton. *Leaving Facebook: Exploring Affective Alternatives*. UIUC, April 22, 2016.
- Mike Ananny, Karrie Karahalios (primary contact), Christian Sandvig, Christo Wilson. *Auditing Algorithms from the Outside: methods and implications*. Workshop at the International Conference of Weblogs and Social Media (ICWSM), 2015.
- *When Algorithms Attack*. South by Southwest (SXSW) Interactive, Austin, TX, USA, March 15, 2015. (Acceptance voted on by the online public audience.)
- *Paralingual Analysis, Voice Visualization, and Mobile Devices as Enabling Technologies*. Human Computer Interaction Consortium (HCIC), June 2014.
- Adam Perer, Nicholas Diakopoulos, Jessica Hullman, and Karrie Karahalios. *StoryTelling as Data*. Workshop at IEEE Information Visualization Conference (Infovis), 2011.
- Matthew McKeon, Joan Dimicco, and Karrie Karahalios. *StoryTelling as Data*. Workshop at IEEE Information Visualization Conference (Infovis), 2010.
- Gregory Abowd, Katharina Boser, Allan Chochinov, Sophia Colamarino, Felicia Hurewitz, Matthew Goodwin, Karrie Karahalios, Sarah Parsons, Olga Solomon, Simon Wallace. *Core 77: Autism Connects Design Challenge*. 2011. A student design contest supported by Core 77 to design connection technologies desired by those with ASD. <http://www.core77.com/posts/19222/autism-connects-design-challenge-competition-winners-19222>
- Amy Bruckman, Karrie Karahalios, Robert E. Kraut, Erika Sheehan Poole, John C. Thomas, and Sarita Yardi. *Revisiting Research Ethics in the Facebook Era: Challenges in Emerging CSCW Research*. Workshop at the ACM Conference on Computer Supported Cooperative Work (CSCW), 2010.
- Danyel Fisher, David McDonald, Elizabeth F. Churchill, Karrie Karahalios, Cliff Lampe, Andrew L. Brooks, Amy Bruckman. *Tapping the Social Web for CSCW Research: Terms of Service, Ethics, and Bias*. Panel at the ACM Conference on Computer Supported Cooperative Work (CSCW), 2010.
- Nathan Bos, Karrie G. Karahalios, Marcela Musgrove-Chávez, Erika Shehan Poole, John Charles Thomas, Sarita Yardi. *Research Ethics in the Facebook Era: Privacy, Anonymity and the IRB*. Special Interest Group at the Conference on Human Factors in Computing Systems (CHI), 2009.
- Karrie Karahalios and Fernanda Viégas. *Social Visualization: Exploring Text, Audio, and Video Interactions*. Workshop at the Conference on Human Factors in Computing Systems (CHI), 2006.
- Karrie Karahalios and Kelly Dobson. *Sociable Communication Objects*. Sociable Objects Workshop, Cambridge, MA, 2002.

### *White Papers*

- Motahhare Eslami, Eric Gilbert, Sarita Schoenebeck, Eric P. S. Baumer, Eshwar Chandrasekharan, Michelle De Mooy, Karrie Karahalios, David Karger, Tressie McMillan Cottom, Andrés Monroy-Hernández, Loren Terveen, John Wihbey. *The Future of Research on Social Technologies: CCC Workshop Visioning Report*. April 2024. <https://arxiv.org/abs/2404.10897>

### *Workshop Proceedings*

- Alex Atcheson and Karrie Karahalios. *As Clear as Day! Considering Transparency in Haptic Design*. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI) Sustainable Haptic Design: Enabling Hapticians to Collaborate and Share their Work Workshop, 2022.
- Alex Atcheson and Karrie Karahalios. *Auditing Automated Hiring Practices*. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI) Dreaming Disability Justice in HCI Workshop, 2022.

- Pingjing Yang, Ti-Chung Cheng, Sajjadur Rahman, Mangesh Bendre, Karrie Karahalios, Aditya Parameswaran. Workshop on Human-In-the-Loop Data Analytics (HILDA) at the ACM Special Interest Group on Management of Data (SIGMOD), June 2020.
- M. Eslami and K. Karahalios. Understanding and Designing around Users' Interaction with Hidden Algorithms in Sociotechnical Systems, The International Conference on Weblogs and Social Media (ICWSM) Algorithms Workshop, 2017.
- M. Eslami and K. Karahalios. Embracing Seamfulness and Uncertainty in Designing around Hidden Algorithms, Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI) Uncertainty Workshop, 2017.
- K. Vaccaro, K. Karahalios, C. Sandvig, K. Hamilton, and S. Langbort. Agree or Cancel? Research and Terms of Service Compliance, ACM Conference on Computer Supported Cooperative Work (CSCW), Ethics Workshop, 2015.
- J. Lee, S. Lin, K. Karahalios. Visualizing Patterns of Social and Communicative Behavior in Children Using Plexlines. Workshop on Visual Analytics in Healthcare (VAHC), 2013.
- J. Kim, M. Snodgrass, M. Pietrowicz, K. Karahalios, J. Halle. BEDA: Visual analytics for behavioral and physiological data. Workshop on Visual Analytics in Healthcare (VAHC), 2013.
- J. Hailpern, K. Karahalios, L. DeThorne, J. Halle, J. Lohrens. Visualizing Multi-Syllabic Speech with Computers for Language Therapy. International Meeting for Autism Research (IMFAR) technology and autism poster/demonstration, 2010.
- T. Bergstrom, K. Karahalios, M. Dixon, S. Wayland. Using Social Mirrors to Teach Conversation Skills to People with Social Skill Deficits. International Meeting for Autism Research (IMFAR) technology and autism poster/demonstration, 2010.
- Karrie Karahalios and Tony Bergstrom. Leveraging People and Computers for NLP. Workshop on Analysis and Design of Algorithms for Interactive Machine Learning, 23rd Annual Conference on Neural Information Processing Systems (NIPS), 2009.
- Karrie Karahalios and Tony Bergstrom. Conversation Clusters for Contingency in Conversation. Designing for People Who Learn Differently. Human Computer Interaction Lab (HCIL) Spring Symposium at the University of Maryland, 2009.
- Eric Gilbert and Karrie Karahalios. Visualization Annotation at Internet Scale. Social Data Analysis Workshop. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI), 2008.
- Tony Bergstrom and Karrie Karahalios. Seeing Ourselves among Others. Social Data Analysis Workshop. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI), 2008.
- Joshua Hailpern, Karrie Karahalios, Laura DeThorne, James Halle. Encouraging Speech and Vocalization in Children with Autistic Spectrum Disorder. Workshop on Technology in Mental Health. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI), 2008.
- Tony Bergstrom and Karrie Karahalios. Visualizing Co-located Conversation Feedback. Proceedings of the Second IEEE International Workshop on Horizontal Interactive Human-Computer Systems (TABLETOP), 2007.
- J. Hou, Q. Wang, L. Ball, S. Birge, M. Caccamo, C.F. Cheah, E. Gilbert, C. Gunter, E. Gunter, C.G. Lee, K. Karahalios, M.Y. Nam, N. Nitya, C. Rohit and L. Sha, "PAS: A Wireless-enabled, Sensor-integrated Personal Assistance System for Independent and Assisted Living". Workshop On High Confidence Medical Devices, Software, and Systems (HCMDSS), June 2007.
- Karrie G. Karahalios and Tony Bergstrom. Visualizing audio in group table conversation. Proceedings of the First IEEE International Workshop on Horizontal Interactive Human-Computer Systems (TABLETOP), 2006. pp. 131-134.
- Karrie Karahalios, Tony Bergstrom, Matthew Yapchaian. Designing Sociable Media Spaces. 20th Anniversary of Media Spaces Workshop. ACM Conference on Computer Supported Cooperative Work (CSCW), 2006.
- Karrie Karahalios. FashionFone. Identity Workshop. ACM Conference on Computer Supported Cooperative Work (CSCW), 2004.
- Karrie Karahalios and Judith Donath. Scale, Form, and Time: Creating Connected Sociable Spaces. Intimate Ubiquitous Computing Workshop. 5th International Conference on Ubiquitous Computing (Ubicomp), 2003.

#### *Refereed Posters and Extended Abstracts*

- Bhavana Bheem, Karrie Karahalios, Wendy K. Tam. Reevaluating the Platform Neutrality Assumption of Section 230: An Agent-Based Model Approach. ACM Symposium on Computer Science and Law, 2025. (Work in progress paper and poster)
- Sayantani Basu, Kaori Terol, Christy Yoon, Ban Sleiman, Melanie Martin, Jialu Li, Alex Atcheson, Siraj Siddiqi, Mark Hasegawa-Johnson, Hedda Meadan-Kaplansky, and Karrie Karahalios. Fostering communication between parents and clinicians using behavioral visualizations of children with autism. American Medical Informatics Association (AMIA) 2024 Informatics Summit, 2024.
- K. Mack, J. Lee, K. Chang, K. Karahalios, A. Parameswaran, Characterizing Scalability Issues in Spreadsheet Software using Online Forums (Case Study). Extended Abstracts of the ACM Conference on Human Factors in Computing Systems, 2018.
- M. Eslami, A. Rickman, K. Vaccaro, A. Aleyasen, K. Karahalios, K. Hamilton, & C. Sandvig. Exposure to the Invisible: Reasoning About Hidden Algorithms in the News Feed. Research poster presented to the International Conference on Computational Social Science (IC2S2), Helsinki, Finland, June 2015. pp. 65-68.

- K. Hamilton, K. Karahalios, C. Sandvig, and M. Eslami. A Path to Understanding the Effects of Algorithm Awareness, *Alt.Chi: Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2014. pp. 631-640. (Acceptance Rate: 37.5%)
- N. Spirin, M. Eslami, J. Ding, P. Jain, B. Bailey, K. Karahalios. Searching for Design Examples with Crowdsourcing. *International World Wide Web Conference (WWW) Poster*, 2014.
- M. Pietrowicz and K. Karahalios. Visualizing Vocal Expression. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2014.
- M. Eslami, A. Aleyasen, R. Zilouchian Moghaddam, K. Karahalios. Evaluation of Automated Friend Grouping in Online Social Networks. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2014.
- N. Spirin and K. Karahalios. Unsupervised approach to generate informative structured snippets for job search engines. *WWW '13 Companion Proceedings of the 22nd International Conference on World Wide Web (WWW)*, 2013.
- M. Pietrowicz and K. Karahalios. Phonetic Shapes: an interactive, sonic guestbook. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2012.
- A. Bergstrom, M. Dixon, K. Karahalios, and S. Wayland. Modifying Conversation Skills Using Social Mirrors. *American Speech-Language-Hearing Association (ASHA) Annual Convention*. November 2009. (Acceptance Rate: 77%)
- Alex P. Lambert, Stephen M. Bezek, and Karrie G. Karahalios. Waterhouse: Enabling Secure E-mail with Social Networking. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2009.
- Kora A. Bongen and Karrie G. Karahalios. Photo Khipu: Organizing a Public Record of Social Transaction. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2009.
- Pooja Mathur and Karrie G. Karahalios. Using Bookmark Visualizations for Self-reflection and Navigation. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2009.
- Pooja Mathur and Karrie G. Karahalios. Visualizing Remote Voice Conversations. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2009.
- M. Coletto, L. S. DeThorne, J. Halle, K. Karahalios, and J. Hailpern. Visual feedback to facilitate language in a child with autism. *American Speech-Language-Hearing Association (ASHA) Annual Convention*, November 2008. (Acceptance Rate: 42%)
- L. S. DeThorne, K. Karahalios, J. Halle, J. Hailpern, and M. Coletto. Computerized feedback to facilitate vocalizations in nonverbal children with autism. *American Speech-Language-Hearing Association (ASHA) Annual Convention*, November 2008. (Acceptance Rate: 42%)
- Tony Bergstrom and Karrie Karahalios. Conversation Clusters: human-computer dialog for topic extraction. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2008.
- Joshua Hailpern, Karrie Karahalios, Jim Halle, Laura DeThorne, Mary-Kelsey Coletto. Visualizations: Speech, Language and Autistic Spectrum Disorder. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2008. (Acceptance Rate: 38%)
- M. Sharmin, B. P. Bailey, and K. G. Karahalios. An interactive visualization framework for exploring and reflecting on interaction in online social networks. *Interactive Poster at the ACM Conference on Computer Supported Cooperative Work (CSCW)*, 2008.
- Tony Bergstrom and Karrie Karahalios. Conversation Votes: Enabling Anonymous Cues. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2007.
- T. Bergstrom and K. Karahalios. A User Study for Tabletop Conversation Interaction. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2007.
- Tony Bergstrom and Karrie Karahalios. Communicating More than Nothing. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2006.
- Eric Gilbert and Karrie Karahalios. LifeSource: Two CVS Visualizations. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2006. pp. 575-582.
- Karrie Karahalios and Fernanda B. Viégas. Visiphone. *International Conference on Computer Graphics and Interactive Techniques (Siggraph)*, *Extended Abstracts*, 1999. *Siggraph Sketch* (short talk).
- Karrie Karahalios. Diorama. *International Conference on Computer Graphics and Interactive Techniques (Siggraph)*, *Extended Abstracts*, 1998. *Siggraph Sketch* (short talk).

#### *Published Book Reviews*

- *At a Distance: Precursors to Art and Activism on the Internet*. Ed. Annmarie Chandler and Norie Neumark. *New Media and Society*. Review 2005.
- *Women, Art, and Technology*. Ed. Judy Malloy. *New Media and Society*. Review 2004.

### Demos

- C. Yoder, K. Karahalios, M. Hasegawa-Johnson, Shreyansh Agrawal. Visualization for Improving Foreign Language Pronunciation. InterSpeech 2024.
- M. Bendre, T. Wattanawaroon, S. Rahman, K. Mack, Y. Liu, S. Zhu, Y. Lu, P. Yang, X. Zhou, K. Chang, K. Karahalios, A. Parameswaran. Faster, Higher, Stronger: Redesigning Spreadsheets for Scale. IEEE International Conference on Data Engineering (ICDE), 2019. **Best Demo Award**.
- Tarique Siddiqui, Paul Luh, Zesheng Wang, Karrie Karahalios, Aditya Parameswaran. ShapeSearch: Flexible Pattern-based Querying of Trend Line Visualizations. International Conference on Very Large Databases (VLDB), 2018.
- Tarique Siddiqui, John Lee, Albert Kim, Edward Xue, Xiaofu Yu, Sean Zou, Lijin Guo, Changfeng Liu, Chaoran Wang, Karrie Karahalios, Aditya Parameswaran. Fast-forwarding to Desired Visualizations with Zenvisage. Conference on Innovative Database Research (CIDR), January 2017.
- M. Eslami, A. Aleyasen, K. Karahalios, K. Hamilton, and C. Sandvig. FeedVis: A Path for Exploring News Feed Curation Algorithms, ACM Conference on Computer Supported Cooperative Work (CSCW), 2015. Peer Reviewed Software Demo.

### Articles

- Christian Sandvig and Karrie Karahalios. Most of what you do online is illegal. Let's end the absurdity. *The Guardian*. June 30, 2016.
- Karrie G. Karahalios. Algorithm awareness: How the news feed on Facebook decides what you get to see. *MIT Technology Review*. October 2014. Retrieved from <http://www.technologyreview.com/view/531676/algorithm-awareness>
- Karrie G. Karahalios. Visualizing Voice. *CyberTherapy and Rehabilitation*. Issue 1. 2009.

### Theses

- Karrie G. Karahalios. *Social Catalysts: enhancing communication in mediated spaces*. Ph.D. Thesis. Massachusetts Institute of Technology. 2004.
- Karrie Karahalios. *SpaceMap: Merging Static and Dynamic Visual Media along an Event Timeline*. Masters Thesis. Massachusetts Institute of Technology. 1997.
- Karrie Karahalios. *Salient Movies*. Masters of Engineering, Thesis. Massachusetts Institute of Technology. 1995.

### PATENTS

- Kim Pascal Pimmel, Hijung Shin, Dingzeyu Li, Anh Lan Truong, Joy Oakying Kim, Pankaj Kumar Nathani, Xuecong Xu, Cristin Ailidh Fraser, Kyratso George Karahalios, Zhengyang Ma, Joel Richard Brandt, Lubomira Assenova Dontcheva, Seth John Walker. Display Screen or Portion Thereof with Graphical User Interface. US Patent No. D1056928. 2025.
- Eric Edmund Gilbert and Kyratso (Karrie) Karahalios. Tie Strength Prediction and Social Media Filtration. US Patent No. 8965967. 2011.

### INSTALLATIONS

- Sociable Media Group. Connections. A collection of work by the Sociable Media Group at MIT. Currently on display at the MIT Museum. Pieces by Karrie Karahalios include Chit Chat Club, Telemurals, Visiphone, Loom, Diorama. The exhibit traveled throughout 2008.
- Karrie Karahalios, Tony Bergstrom, and Matthew Yapchain. Ginger — a telesculpture. Exhibited at the San Jose Museum of Art during ISEA - Inter-Society for the Electronic Arts, 2006. Ginger is one of the sculptures in the Chit Chat Club Live! Exhibit (other pieces created by Judith Donath, Francis Lam, Aaron Zinman).
- Karrie Karahalios and Judith Donath. Telemurals: an Installation. 5th International Conference on Ubiquitous Computing (UbiComp), 2003.
- Karrie Karahalios. Telemurals. Mixed Realities. Boston Cyberarts Festival, 2003.
- Karrie Karahalios and Fernanda Viégas. Visiphone. Invencao. Rio, Brazil, 1999.
- Karrie Karahalios and Fernanda Viégas. Visiphone. Emerging Technologies at International Conference on Computer Graphics and Interactive Techniques (Siggraph), 1999.

## CONSULTING

- Adobe Research Consulting. 2017-Present.
- Vanderbilt University. Research Consulting. 2017.
- Adobe Research Consulting. 2014.
- Google. Research Consulting. 2012.
- Microsoft. Research Consulting. 2010.
- Reify Corp. Research Consulting. 2002.
- Upstream. Technical Consulting. 2000.

## INVITED TALKS

- Reconfiguring Algorithmic Culture. International Conference on Human-Engaged Computing (ICHEC). November 2025. (Keynote)
- AI Audits and Autonomy. Stanford University. April 2025.
- Just Infrastructures: Awareness, control, autonomy, and voices in sociotechnical systems. University of Pennsylvania. November 2024.
- Unveiling Invisible Governance: control, autonomy, and voices in sociotechnical systems. MIT Media Lab. September 2024.
- About SIGCHI Futures Panel. ACM Conference on Human Factors in Computing Systems (CHI), May 16, 2024.
- Law School Workshop. University of Illinois Urbana Champaign. April 4, 2024.
- Women in Science Lecture. March 7, 2024.
- Algorithmic Systems in Education. C3.AI Initiative. October 2023.
- Ethics in Human-Centered AI. Pop-up 2023: Science AI of Unusual Size. Northwestern University / Argonne Institute for Science and Engineering (NAISE) event in Traverse City, MI. September 2023.
- Addressing the AI Gap. The Summit on AI in Society. Hosted by the University of Chicago's Institute on the Formation of Knowledge (IFK). October 2022.
- Automation in Medical Decision-making Workflows. Human Computer Interaction Consortium (HCIC). June 2022.
- Messaging, Algorithms, and Control in Social Media Workshop on Data for the Wellbeing of Most Vulnerable: Global Problems, Local Solutions. International Conference on Weblogs and Social Media (ICWSM). June 2022.
- Auditing Discrimination Online: Challenges and Paths Forward. Coalition for Tech Independence. May 2022.
- "How Powerful are Algorithms, Really?" Invited Panel at the Conference on Disinformation and the Erosion of Democracy. Hosted by the University of Chicago's Institute of Politics (IOP) and The Atlantic. April 2022. (Other panels included President Obama, Frances Haugen, etc.)
- Commentary on "How Universities and Industry Can Collaborate around AI" Coordinated Science Laboratory (CSL) Symposium on Artificial Intelligence and Social Responsibility. March 2022.
- Bill of Rights for an Automated Society: Social Welfare and Development Panel. White House Office of Science and Technology & New America. November 2021. (Panelist)
- Centering Values and Reasoning in Social Algorithmic Infrastructures. Coordinated Science Laboratory (CSL) 70th Anniversary Celebration. University of Illinois. October 2021.
- Stakeholders and Control or Society & Community and Control. Social Computing Camp Keynote. June 2021.
- Trust in AI? University of Illinois AI Research Initiatives Webinar. February 2021.
- The Need for Algorithm Awareness and Contestability. University High School. Women in STEM Club. December 2020.
- From Algorithm Awareness to Algorithm Contestability. University of Chicago, CS Department Distinguished Lecture Series. October 2020.
- Contestable Systems: ethics in automation. Center for Autonomy Workshop. University of Illinois. October 2019.
- What do we value? And do we know? A Public Forum: Artificial Intelligence, Health, & Society. NIH and IGB, UIUC. September 2019.
- Engagement as Control in Algorithmic Systems. Boston University CS Department. April 2019.
- Empowering Algorithms and Algorithm Disillusionment. MIT CSAIL HCI Seminar. February 2019.
- Discrimination Audits: challenges to discrimination studies. UIUC Law Data Summit. October 2018.
- Respondent for talks and discussion between Liz Losh and Virginia Eubanks. Humanities and Arts in the Age of Big Data Conference. October 2018.

- Truth and Bias in the Age of Algorithms. MIT Technology Review, EmTech. September 2018.
- Collective Algorithm Audits. Algorithmic Accountability Panel. Computer-Assisted Reporting Conference (CAR), Chicago. March 2018. (Panelist).
- Discrimination Audits: challenges to discrimination studies. Civil Servant Symposium, MIT. January 2018.
- AI and Bias. Adobe Developer Seminar. San Jose. December 2017.
- Data Ethic and Bias. UIUC Social Sciences Mixer. October 2017.
- Data Ethics and Bias. Adobe Partner Summit. September 2017.
- Studying How We Make Sense of Algorithms in News Feeds. UIUC Psychology Department. October 2017.
- Folk Theories: Studying How We Make Sense of Algorithms in (News) Feeds. Inaugural Google Pair Symposium, Google. September 2017.
- Studying How We Make Sense of Algorithms in News Feeds. University of California, San Diego. Design at Large Seminar. April 2017.
- Studying How We Make Sense of Algorithms in News Feeds and the Challenges Faced when Conducting such Studies. Distinguished Speaker. University of Colorado, Boulder. April 2017.
- Understanding and encouraging communication behavior with visualization. National Institute of Mental Health (NIMH). March 2017.
- Making Sense of Algorithms in News Feeds. Stanford University, HCI Seminar. February 2017.
- Making Sense of Algorithms in News Feeds. Accenture Research Lab, San Jose, CA. February 2017.
- Designing Algorithmic Process into Feeds: varied perspectives. Facebook, Menlo Park, CA. October 2016.
- The Need for Auditing Algorithms. MIT Forbidden Research Symposium. Cambridge, MA. July 2016.
- Mixed Methods in Social Computing Research. Making Calculated Moves: The Future of Mixed Methods in the Age of Computation, Reconsidered, National Center for Supercomputing Applications (NCSA), UIUC. March 2016. (Panelist).
- Moving Towards a Seamless Experience to Create More Engaging Social Media Sites. Adobe Research, SF, CA. January 2016.
- Understanding and encouraging communication behavior with visualization. Southern Illinois University Medical School. December 2015.
- HCI@UIUC. Talk in CS100, and introductory computer science class. November 2015.
- Navigating Legal and Ethical Uncertainty and Inconsistency in Research. Freedom2Innovate Symposium, MIT. October 2015.
- Awareness and Folk Theories of News Feed Curation Algorithms. Facebook, Menlo Park, CA. July 2015.
- Keynote Speaker: Understanding and encouraging communication behavior with visualization. International Conference on Computer Supported Collaborative Learning (CSCL). Gothenburg, Sweden. June 8, 2015.
- From Algorithm Awareness to Engagement. CS Distinguished Lecture Series, Northwestern University, May 2015.
- Keynote Speaker: From Algorithm Awareness to Engagement. 3rd International Workshop on Socially-Aware Multimedia. Orlando, FL. November 2014.
- Algorithm Awareness. Human Factors Course (GSLIS). November 2014.
- Paralingual Analysis, Voice Visualization, and Mobile Devices as Enabling Technologies. HCI Consortium. Watsonville, California. June 2014.
- Ethical Implications of Automation Bias and Machine Learning in Social Media. UIUC Digital Media Ethics (GSLIS) Course. April 2014.
- (How to be ?) A Happy and Productive Introvert on Social Media. Microsoft Social Computing Symposium, NY. January 2014.
- Visualizing Time and Space. Women in Computer Science (WCS) Seminar Speaker. December 2013.
- Analyzing Timeline Data. HCI Consortium. Asilomar, CA. June 2013.
- The Ethics of Algorithms. Governing Algorithms Workshop. NYU. May 2013.
- Systems and Experimentation in Social Computing. NSF/ACM Social Computing Workshop. NSF. October 2013.
- Visualization and Analytic Tools for Behavior Imaging. Carnegie Mellon University (CMU). September 2013.
- Visualization and Analytic Tools for Behavior Imaging. MIT Media Lab. October 2013.
- Keynote Speaker: Assistive Technologies for Communication. Symposium on Activity-Based Approaches to Communication (SABAC), UIUC, I-Hotel, Champaign, IL. April 2012.
- Games for Learning. UIUC Speech and Hearing Department. April 2012.
- Text and Relationships. Northwestern Computer Science Distinguished Lecture Series. April 2012.
- Social Computing. Talk in CS100, and introductory computer science class. October 2011.
- Keynote Speaker: From Turn-taking to Social Ties. Conference on Artificial Intelligence (AAAI), San Francisco. August 2011.

- Ethics in the Era of Facebook. University of Illinois Foundation Ethics Seminar. August 2010.
- Network Problems: The Limitations of Point-Line Diagrams. HarambeeNet (Social Networks in Education) 2010 Workshop, Duke University. July 2010.
- From The Information Channel as Social Signal. The Berkman Infrastructure Group, Harvard University. April 2010.
- Text and Tie Strength. Berkman Center for Internet and Society, Harvard University. March 2010.
- From Turn-taking to Social Ties. Microsoft Research, Seattle, WA. March 2010.
- From Turn-taking to Social Ties. MIT Computer Science and Artificial Intelligence Lab (CSAIL). February 2010.
- Research in the Social Spaces Group at UIUC. Family Resiliency Center, UIUC. October 2009.
- From Turn-taking to Social Ties. IBM, Cambridge, MA. August 2009.
- From Turn-taking to Social Ties. Microsoft Research, Cambridge, MA. August 2009.
- Keynote Speaker: Visualizing Voice: words as social catalyst. Distance Lab (a creative research organization bringing together digital media technology, design and the arts to redefine and overcome the disadvantages of distance in learning, health care, relationships, culture) Annual Symposium. June 2009.
- Designing Sociable Media Spaces. Talk in ENG398 course at UIUC. April 2009.
- Sentiment, Voice, Markets, and People. FOO Camp. March 2009. (This is an invitation only hacker event hosted by O' Reilly Media. Guests this year included Steve Wolfram, Ray Ozzie, Tim Berners Lee.)
- Visualizing Voice: audio as social catalyst. MIT Media Lab. April 2009.
- Visualizing Voice. Tufts CS Department. March 2009.
- Visualizing Voice. Berkeley CS Department. March 2009.
- Voice and Sociable Media. Emerging Communications Conference (eComm), SF. March 2009.
- Future of Voice in HCI. Carnegie Mellon University. January 2009.
- Audio as Social Catalyst. Stanford University. October 2008.
- Moving beyond Point-Line Diagrams for Social Networks. Microsoft Faculty Retreat. July 2008.
- Visualizing Voice. Accenture Research Labs. March 2008.
- Audio in the Interface. Human Computer Interaction Lab (HCIL) Fall Seminar Speaker. University of Maryland. November 2007.
- Audio in the Interface. BU CS Department. November 2007.
- Designing Social Spaces. BU CS Department. November 2007.
- Audio in the Interface. University of Washington Information School Speaker. October 2007.
- Visualizing Voice. iSchool Research Conversation Series, University of Washington. October 2007.
- Audio in Online Spaces. Georgia Institute of Technology, CS Department. April 2007.
- Audio vs. Text in Online Spaces. Social Computing Symposium, Cornell University. March 2007.
- Audio in Online Spaces. UC Irvine School of Informatics. March 2007.
- Rethinking Audio in HCI Interfaces. Iowa CS Department. January 2007.
- Rethinking Audio in HCI Interfaces. Computer Science and Artificial Intelligence Laboratory (CSAIL). 2006.
- Rethinking Audio in HCI Interfaces. Microsoft Research. July 2006.
- Rethinking Audio in HCI Interfaces. Microsoft Research Social Computing Symposium. Seattle, WA. April 2006.
- Visualizing Social Capital in Blog Audiences. Google. March 2006.
- Social Computer Mediated Communication. IBM. March 2006.
- Designing Social Spaces. University of Massachusetts, Amherst. February 2006.
- Research in Social Spaces. University of Sydney. January 2006.
- Social Tabletop Interfaces. Mitsubishi Electronic Research Labs (MERL). January 2006.
- ISpace Mobility. Motorola Research Labs, Schaumburg, IL. December 2005.
- ISpace, Teleblogs, and Mobile Mapping. Nokia Research. December 2005.
- Social Spaces. Bolz Center for Arts. University of Wisconsin. May 2005.
- Social Spaces Research. Motorola Research Labs, Schaumburg, IL. May 2005.
- Designing Sociable Media Spaces. Siebel Vision, HCI, Graphics Day. UIUC. April 2005.
- Design Parameters for Social Computing Interfaces. Microsoft Research Social Computing Symposium. April 2005.

- Designing Social Spaces. Community Informatics Research Speaker Series, UIUC. March 2005.
- Mediated Social Spaces. Library and Information Sciences, UIUC. March 2005.
- Online Communities. Association of Performing Arts Presenters, NY. January 2005.
- Social Cues in Online Spaces. Communications Department Course, Northwestern University. January 2005.
- Social Computing. Lab for Computer Science (LCS) and AI Lab, MIT. December 2004.
- Designing and Building Sociable Mediated Spaces. Library and Information Science (LIS) PhD Seminar. November 2004.
- Large Scale Interfaces for Social Computing. Mitsubishi Electronic Research Labs (MERL). November 2004.
- What it takes to be a Grad Student. Women in Math, Science, and Engineering Living/Learning Community, UIUC. October 2004.
- Designing and Building Sociable Mediated Spaces. UIUC Computer Science Colloquium. October 2004.
- Social Catalysts. Designing Sociable Spaces. Microsoft Research. June 2004.
- Sociable Online Spaces. Metropolitan Opera, Performing Arts. June 2004.
- Social Visualizations of Connected Spaces. Harvard Design and Technology Forum. January 2004.
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- Communication systems: A comparison along a set of major axes. Harvard Graduate School of Design (GSD) invited talk. December 2000.
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## TEACHING EXPERIENCE

Spring 2026	MAS.S61		
Spring 2025	IS266/CS266	CS591IC	
Fall 2024	CS567	CS591IC	
Spring 2024	CS467	CS591IC	
Fall 2023	CS567	MACS265	
Spring 2023	IS266/CS266		
Fall 2021	CS567		
Spring 2021	CS467	CS51JI	
Fall 2020	CS598KKGK		
Spring 2020	IS266		
Fall 2019	IS265/CS265		
Spring 2019	CS467		

Fall 2018	CS598KGK		
Fall 2017	CS598KGK		
Spring 2016	CS467	CS591HCI	
Fall 2015	CS598KGK	CS591HCI	
Spring 2015	CS598KGK	CS591HCI	
Fall 2014	CS467	CS591HCI	
Spring 2014	CS467	CS591HCI	
Fall 2013	CS598KGK	CS591HCI	
Spring 2013	CS467	CS591HCI	
Fall 2012	CAS587 / CS598KGK	CS591HCI	
Spring 2012	CS467	CS591HCI	
Fall 2011	CS598KGK	CS591HCI	
Spring 2011	CS467	CS591HCI	
Fall 2009	CS598KGK	CS591HCI	CS591KGK
Spring 2009	CS498KGK	CS591HCI	CS591KGK
Fall 2008	CS465	CS591HCI	CS591KGK
Spring 2008	CS598KGK	CS591HCI	CS591KGK
Fall 2007	CS498KGK	CS591HCI	
Spring 2007	CS414		CS591KGK
Fall 2006	CS598KGK		CS591KGK
Summer 2006	CS498KFC / ARTS591JF		
Spring 2006	CS465		CS591KGK
Fall 2005	CS598KGK		CS591KGK
Summer 2005	ARTS591JF		
Spring 2005	CS498KGK	CS498CEL	CS591KGK
Fall 2004	CS598KGK		

**MAS.S61** — Course entitled, Rethinking Algorithmic Culture. The course examines digital infrastructures through multiple lenses: game theory, sociology, computing, & design — interrogating existing systems to understand the forces and choices behind them, then rebuilding these infrastructures designing for dignity, autonomy, and collective health.

**ARTS591JF** — Course entitled, “Examining Utopia: Kabakov’s Palace of Projects as an archive of proposals, and its methodological implications for New Media, Art Theory, and Computer Science”. The students built a computer-based exhibit for the web and a life-size exhibit that they exhibited at the Krannert Museum.

**CAS587** — Culture as Data. A course about how we represent ourselves and society in a world that is transforming in data scale, quantification, and digital culture. Co-taught with Christian Sandvig. (Created the course)

**CS414** — Multimedia Systems and Applications. Upper level undergraduate course addressing audio, video, image, and networking needs for multimedia systems and applications.

**CS465** — Principles of User Interface Design. Undergraduate course beginning with current design principles for user interface design and moving towards new non-traditional designs and implementations. The goal of the class is to break away from the traditional Microsoft and

Adobe interfaces and create interfaces that are cognitively intuitive that do not require much instruction. These interfaces are implemented and evaluated.

**CS498CEL** — Programming Mobile Devices. Graduate and undergraduate course in programming mobile devices. Course focused on designing context-aware-computing applications and implementing them on mobile handheld devices. (Created the course)

**CS498KFC/ARTS591JF** — Cultural Computing Course. Students interacted with sculptor Alice Aycock as she designed a new sculpture. Students observed Alice Aycock's collaborative process with her remote technical assistant; the goal of the course is to allow students to create a design process of their own with the result being the design of their own hybrid (virtual and physical) sculpture. (Created the course)

**CS498KKGK/CS467** — Social Visualization. Graduate and undergraduate course in designing and creating visualizations about people for people. Datasets included email, slashdot, facebook, myspace, gps data, audio streams, and video feeds. Students are required to collect data, scrub data, visualize data, and tell stories with visualizations and data. (CS498KKGK became the permanent course CS467). (Created the course)

**CS591JI** — Just Infrastructures Speaker Series. We bring in researchers from leading institutions that addresses critical issues surrounding society, algorithms, and infrastructures. Themes include the future of democracy, (mis/dis)information, human and machine governance and more. (Created the course)

**CS591HCI** — Human Computer Interaction Speaker Series. We bring in HCI researchers from leading universities and companies.

**CS591KGGK** — Social Spaces Seminar. Graduate research seminar discussing the state of the art in social computing resulting in a joint group project. (Created the course)

**CS567 (formerly CS598KGGK)** — Social Spaces and Social Computing. Graduate course that includes discussion and implementation of sociable media. This class moves beyond interfaces on a rectilinear screen and brings them into the physical space. From the Fall of 2013 on, the course introduced social signaling theory. We use signaling theory to inform the design of social media. (Created the course)

**DevPhone 2009** — Spring 2009, Coordinated DevPhone with a group of students, the MacWarriors. This was a two-day workshop in the UIUC computer science department. The goal of the workshop was to enable participants to program iPhone applications in two days. The workshop ran from 1-9pm on a Saturday and Sunday in March with lab access for specific questions. It included lectures on objective C, reference counting for iPhone programming, interface builder, Apple's cocoa environment, and accelerometer access. 190 people enrolled in the course, and it required two overflow rooms. The course concluded with a programming contest for the best course selection interface or "boggle" game. (Created the course)

**IS265/CS265** — Innovating Illinois. This is an interdisciplinary class showcasing the innovations and impact of work that has emerged from the University of Illinois from past to present. We explore these innovations from the perspectives of engineering innovation, social & cultural innovation, and sustainability. We aim to uncover what is necessary to continue to innovate at Illinois. (IS266/CS266 is the continuation of this course focusing on community engagement). (Created the course)

**IS266/CS266** — Community Innovation. This is an interdisciplinary class emphasizing innovations that came to be because of community collaboration. Examples include Plato, Mosaic, DRES, etc. (Created the course)

*Updated December 2025.*