

# Jessica Hullman

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## Current Appointment

2024– **Ginni Rometty Professor of Computer Science**  
Northwestern University, Evanston IL.

2024– **Faculty Fellow, Institute for Policy Research**  
Northwestern University, Evanston IL.

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## Prior Positions

2021–2024 **Ginni Rometty Associate Professor of Computer Science**  
Northwestern University, Evanston IL.

2022 **Law & Society Fellow**  
Simons Institute, Berkeley, CA.

2022 **Visiting Researcher**  
Microsoft Research, New York, NY.

2020–2021 **Associate Professor of Computer Science**  
Northwestern University, Evanston IL.

2018–2020 **Allen K. and Johnnie Cordell Breed Assistant Professor of Computer Science**  
**Assistant Professor of Journalism**  
Northwestern University, Evanston IL.

2015–2018 **Assistant Professor of Information Science**  
**Adjunct Assistant Professor of Computer Science & Engineering**  
University of Washington, Seattle, WA.

2014 **Postdoctoral Fellow**  
Computer Science, University of California, Berkeley, CA.  
Mentor: Maneesh Agrawala

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## Education

2014 **Ph.D. in Information Science**  
Committee: E. Adar (Chair), T. Finholt, P. Resnick, P. Shah.  
University of Michigan School of Information, Ann Arbor, MI.

2008 **Master of Science in Information**  
Specialization in Information Analysis & Retrieval.  
University of Michigan School of Information, Ann Arbor, MI.

2003 **Bachelor of Arts**  
Comparative Studies in Religion. Honors with distinction.  
Ohio State University, Columbus, OH.

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## Awards & Honors

- 2024 **Honorable Mention for Best Paper award.** ACM CHI 2024. Top 4% total submissions.
- 2023 **Best Research Mentor.** Northwestern Computer Science Department.
- 2023 **Best Paper award.** IEEE VIS 2023. Top 6 accepted papers.
- 2023 **Honorable Mention for Best Paper award.** ACM CHI 2023. Top 4% total submissions.
- 2021 **Honorable Mention for Best Paper award.** IEEE InfoVis 2021. Top 5 accepted papers.
- 2020 **Best Paper award.** IEEE InfoVis 2020. Top 1 accepted paper.
- 2020 **Honorable Mention for Best Paper award.** ACM CHI 2020. Top 4% total submissions.
- 2019 **Microsoft Faculty Fellowship.** One of five computer scientists chosen in 2019.
- 2018 **Honorable Mention for Best Paper award.** ACM CHI 2018. Top 4% total submissions.
- 2017 **Honorable Mention for Best Paper award.** IEEE InfoVis 2017. Top 3 accepted papers.
- 2013 **Gary M. Olson Outstanding Ph.D. Student Award.**  
School of Information at the University of Michigan. One chosen by faculty annually.
- 2011 **Honorable Mention for Best Paper award.** IEEE InfoVis 2011. Top 3 accepted papers.

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## Research Funding

- 2022 **NSF CISE Medium Award.** #2211939, co-PI: Matt Kay, \$1.2m.  
Improving data visualization and analysis tools to support reasoning about analysis assumptions.
- 2017–2022 **Adobe Software.** ~\$20k annual.  
Unrestricted Research Donations.
- 2021 **U.S. Navy.** #N17A-T004 extension, with Stottler Henke and Associates, \$125k.  
Visual tools and progressive automation for complex knowledge management and decision support.
- 2019 **U.S. Navy.** #N17A-T004, with Stottler Henke and Associates, \$300k.  
Visual tools and progressive automation for complex knowledge management and decision support.
- 2019 **NSF CISE Small Award.** #1907941, co-PI: Jeff Heer (University of Washington), \$523k  
Representing and learning visualization design knowledge
- 2018 **NSF CISE CAREER Award.** #1930642, \$524k, REU Supplement (\$12k).  
Enhancing critical reflection on data by integrating users' expectations in visualization interaction.
- 2017 **U.S. Navy.** With Stottler Henke and Associates, \$70k.  
Visualizing complex scientific knowledge for decision making.
- 2016 **NSF CRII Award.** \$174k  
Facilitating consumption and re-expression of scientific information in a journalism context.
- 2015 **Google Faculty Award.** Co-PI: Sean Munson (University of Washington), \$67k.  
User-centered representations of uncertainty in everyday predictive systems.

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## Journal Papers

- 2024 **What to Consider When Considering Differential Privacy for Policy**  
Nanayakkara, P., and Hullman, J.  
Policy Insights from the Behavioral and Brain Sciences, 2024.
- 2024 **VMC: A Grammar for Visualizing Statistical Model Checks**  
Guo, Z., Kale, A., Kay, M., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of IEEE VIS 2024, 23.2%, 129/557)
- 2024 **REFORMS: Consensus-based Recommendations for Machine-learning-based Science**  
Kapoor, S., Cantrell, E. M., Peng, K., Pham, T. H., Bail, C., Gundersen, O. E., Hofman, J., Hullman, J., A

- Lones, M., Malik, M., Nanayakkara, P., Poldrack, R., Raji, I. D., Roberts, M., Salganik, M., Serra-Garcia, M., Stewart, B., Vandewiele, G., and Narayanan, A.  
Science Advances, 10 (18), 2024.
- 2023 **Causal Quartets: Different Ways to Attain the Same Average Treatment Effect**  
Gelman, A., Hullman, J., Kennedy, L.  
American Statistician, 78 (3), 2023.
- 2023 **The Rational Agent Benchmark for Data Visualization**  
Wu, Y., Guo, Z., Mamakos, M., Hartline, J., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of IEEE VIS 2023, 24.6%, 133/539)
- 2023 **Are We Closing the Loop Yet? Gaps in the Generalizability of VIS4ML Research**  
Subramonyam, H., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of IEEE VIS 2023, 24.6%, 133/539)
- 2023 **Dupo: A Mixed Initiative System for Responsive Visualization Authoring**  
Kim, H., Rossi, R., Hoffswell, J., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of IEEE VIS 2023, 24.6%, 133/539)
- 2023 **EVM: Incorporating Model Checking into Exploratory Visual Analysis**  
Kale, A., Guo, Z., Qiao, E., Heer, J., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of IEEE VIS 2023, 24.6%, 133/539)
- 2023 **Swaying the Public? Impacts of Election Forecast Visualizations on Emotion, Trust, and Intention in the 2022 U.S. Midterms**  
Yang, F., Cai, M., Mortenson, C., Fakhari, H., Lokmanoglu, A., Hullman, J., Franconeri, S., Diakopoulos, N., Nisbet, E., and Kay, M.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of IEEE VIS 2023, 24.6%, 133/539)  
🟡 Best Paper Award.
- 2021 **The Science of Visual Data Communication: What Works**  
Franconeri, S., Padilla, L., Shah, P., Zacks, J., and Hullman, J.  
Psychological Science in the Public Interest
- 2021 **A Survey of Domain Knowledge Elicitation in Applied Machine Learning**  
Kerrigan, D., Hullman, J., and Bertini, E.  
Multimodal Technologies and Interaction (Special Issue: AI for and by the People)
- 2021 **Causal Support: Modeling Causal Inferences with Visualizations**  
Kale, A., Wu, Y., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2021, 25%, 114/442)  
🟡 Honorable Mention Award.
- 2021 **Visualization Equilibrium**  
Kayongo, P., Sun, G., Hartline, J., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2021, 25%, 114/442)
- 2021 **An Automated Approach to Reasoning About Task-Oriented Insights in Responsive Visualization**  
Kim, H., Rossi, R., Sarma, A., Moritz, D., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2021, 25%, 114/442)
- 2021 **Visualizing Uncertainty in Probabilistic Graphs with Network Hypothetical Outcome Plots (NetHOPs)**  
Zhang, D., Adar, E., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2021, 25%, 114/442)

- 2021 **Designing for Interactive Exploratory Data Analysis Requires Theories of Graphical Inference**  
Hullman, J. and Gelman, A.  
Harvard Data Science Review, Issue 3.3 (Summer 2021)
- 2021 **Design Patterns and Trade-offs in Responsive Visualization for Communication**  
Kim, H., Moritz, D., and Hullman, J.  
Computer Graphics Forum (Proceedings of EuroVis 2021, 26%, 45/173)
- 2020 **Information, incentives, and goals in election forecasts**  
Gelman, A., Hullman, J., Wlezien, C., and Morris, G. E.  
Judgment and Decision Making
- 2020 **Challenges in Evaluating Interactive Visual Machine Learning Systems**  
Boukhelifa, N., Bezerianos, A., Chang, R., Collins, C., Drucker, S., Endert, A., Hullman, J., North, C., and Sedlmair, M.  
IEEE Computer Graphics & Applications (CGA)
- 2020 **Visual Reasoning Strategies for Effect Size Judgments and Decisions**  
Kale, A., Kay, M., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2020, 25.6%, 64/250)  
🟡 Best Paper Award.
- 2020 **Bayesian-Assisted Inference from Visualized Data**  
Kim, Y-S., Kayongo, P., Grunde-McLaughlin, M., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2020, 25.6%, 64/250)
- 2019 **Why Authors Don't Visualize Uncertainty**  
Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2019, 25.7%, 54/209)
- 2019 **Illusion of Causality in Visualized Data**  
Xiong, C., Shapiro, J., Hullman, J., and Franconeri, S.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2019, 25.7%, 54/209)
- 2018 **In Pursuit of Error: A Survey of Uncertainty Visualization Evaluation**  
Hullman, J., Qiao, X., Correll, M., Kale, A., and Kay, M.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2018, 25.7%, 47/183)
- 2018 **Hypothetical Outcome Plots Help Untrained Observers Judge Trends in Ambiguous Data**  
Kale, A., Nguyen, F., Kay, M., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2018, 25.7%, 47/183)
- 2017 **Keeping Multiple Views Consistent: Constraints, Validations & Exceptions**  
Qu, Z. and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2017, 23%, 39/170)  
🟡 Honorable Mention Award.
- 2017 **Imagining Replications: Graphical Prediction & Discrete Visualizations Improve Recall & Estimation of Effect Uncertainty**  
Hullman, J., Kay, M., Kim, Y-S., & Shrestha, S  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2017, 23%, 39/170)
- 2017 **Data Through Others' Eyes: The Impact of Visualizing Others' Expectations on Visualization Interpretation**  
Kim, Y-S., Reinecke, K., and Hullman, J.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2017, 23%, 39/170)

- 2017 **Finding a Clear Path: Structuring Strategies for Visualization Sequences**  
Hullman, J., Kosara, R., and Lam, H.  
Computer Graphics Forum (Proceedings of EuroVis 2017, 27%, 46/170)
- 2015 **Hypothetical Outcome Plots Outperform Error Bars and Violin Plots for Inferences About Reliability of Variable Ordering**  
Hullman, J., Resnick, P., and Adar, E.  
PLOS ONE
- 2013 **A Deeper Understanding of Sequence in Narrative Visualization**  
Hullman, J., Drucker, S., Riche, N., Lee, B., Fisher, D., and Adar, E.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2013, 25%, 38/151)
- 2011 **Benefitting InfoVis with Visual Difficulties**  
Hullman, J., Adar, E., and Shah, P.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2011, 26%, 44/172)  
○ Honorable Mention Award.
- 2011 **Visualization Rhetoric: Framing Effects in Narrative Visualization**  
Hullman, J. and Diakopoulos, N.  
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis 2011, 26%, 44/172)

## — Referred Conference Proceedings

- 2024 **Measure-Observe-Remeasure: An Interactive Paradigm for Differentially-Private Exploratory Analysis**  
Nanayakkara, P., Kim, H., Wu, Y., Sarvghad, A., Mahyar, N., Miklau, G., and Hullman, J.  
IEEE symposium on Privacy & Security (Proceedings of S&P 2024)
- 2024 **A Statistical Framework for Measuring AI Reliance**  
Guo, Z., Wu, Y., Hartline, J., and Hullman, J.  
ACM Conference on Fairness, Accountability, & Transparency (Proceedings of FAccT 2024)
- 2024 **Evaluating the Utility of Conformal Prediction Sets for AI-Advised Image Labeling**  
Zhang, D., Chatzimpampas, A., Kamali, N., and Hullman, J.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2024, 26.3%, 1060/4028)  
○ Honorable Mention Award.
- 2024 **Erie: A Declarative Grammar for Data Sonification**  
Kim, H., Kim, Y-S., and Hullman, J.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2024, 26.3%, 1060/4028)
- 2024 **Milliways: Taming Multiverses through Principled Evaluation of Data Analysis Paths**  
Sarma, A., Hwang, K., Hullman, J., and Kay, M.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2024, 26.3%, 1060/4028)
- 2024 **Designing Shared Information Displays for Agents of Varying Strategic Sophistication**  
Zhang, D., Hartline, J., and Hullman, J.  
ACM Conference on Computer-Supported Cooperative Work (Proceedings of CSCW 2024)
- 2023 **MetaExplorer: Facilitating Reasoning with Epistemic Uncertainty in Meta-analysis**  
Kale, A., Lee, S., Goan, T., Tipton, E., and Hullman, J.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2023, 28%, 880/3099)
- 2023 **multiverse: Multiplexing Alternative Data Analyses in R Notebooks**  
Sarma, A., Kale, A., Moon, M., Taback, N., Chevalier, F., Hullman, J., and Kay, M.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2023, 28%, 880/3099)  
○ Honorable Mention Award.

- 2022 **What's Driving Conflicts Around Differential Privacy for the US Census**  
Nanayakkara, P. and Hullman, J.  
IEEE Security & Privacy Magazine, 2022.
- 2022 **The Worst of Both Worlds: A Comparative Analysis of Errors in Learning from Data in Psychology and Machine Learning**  
Hullman, J., Kapoor, S., Nanayakkara, P., Gelman, A., and Narayanan, A.  
AAAI/ACM Conference on Artificial Intelligence, Ethics, & Society (Proceedings of AIES 2022, 34%, 79/235)
- 2022 **Examining Responsibility and Deliberation in AI Impact Statements and Ethics Reviews**  
Liu, D., Nanayakkara, P., Hullman, J., Sakha, S., Abuhamad, G., Blodgett, S. L., Diakopoulos, N., and Elliassi-Rad, T.  
AAAI/ACM Conference on Artificial Intelligence, Ethics, & Society (Proceedings of AIES 2022, 34%, 79/235)
- 2022 **Cicero: A Declarative Grammar for Responsive Visualization**  
Kim, H., Rossi, R., Du, F., Koh, E., Guo, S., Hullman, J., and Hoffswell, J.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2022, 24.6%, 634/2579)
- 2022 **Visualizing Privacy-Utility Trade-Offs in Differentially Private Data Releases**  
Nanayakkara, P., Bater, J., He, X., Hullman, J., and Rogers, J.  
Proceedings of Privacy Enhancing Technologies Symposium (PoPETS '22)
- 2021 **Unpacking the Expressed Consequences of AI Research in Broader Impact Statements**  
Nanayakkara, P., Hullman, J., and Diakopoulos, N.  
AAAI/ACM Conference on Artificial Intelligence, Ethics, & Society (Proceedings of AIES 2021, 37.7%, 105/282)
- 2020 **How Visualizing Inferential Uncertainty can Mislead Readers About Treatment Effects in Scientific Results**  
Hofman, J., Goldstein, D., and Hullman, J.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2020, 24.3%, 760/3126)  
○ Honorable Mention Award.
- 2020 **Human Factors in Model Interpretability: Industry Practices, Challenges, and Needs**  
Hong, S., Hullman, J., and Bertini, E.  
ACM Conference on Computer-Supported Cooperative Work (Proceedings of CSCW 2020)
- 2019 **Inking Your Insights: Investigating Digital Externalization Behaviors During Data Analysis**  
Kim, Y-S., Henry, N., Lee, B., Brehmer, M., Pahud, M., Hinkley, K. and Hullman, J.  
ACM Conference on Interactive Systems & Surfaces (Proceedings of ISS 2019, 30.6%, 26/85)
- 2019 **A Bayesian Cognition Approach to Improve Data Visualization**  
Kim, Y-S., Walls, L., Krafft, P., and Hullman, J.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2019, 23.8%, 705/2938)
- 2019 **Vocal Shortcuts for Creative Experts**  
Kim, Y-S., Dontcheva, M., Adar, E., and Hullman, J.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2019, 23.8%, 705/2938)
- 2019 **Decision-Making Under Uncertainty in Research Synthesis: Designing for the Garden of Forking Paths**  
Kale, A., Kay, M., and Hullman, J.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2019, 23.8%, 705/2938)
- 2019 **Some Prior(s) Experience Necessary: Templates for Getting Started with Bayesian Analysis**  
Phelan, C., Hullman, J., Kay, M., and Resnick, P.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2019, 23.8%, 705/2938)

- 2019 **Belief-Driven Data Journalism**  
 Nguyen, F., Shrestha, S., Germuska, J., Kim, Y-S., and Hullman, J.  
 Computation+Journalism
- 2018 **Picturing Science: Design Patterns in Graphical Abstracts**  
 Hullman, J., and Bach P.  
 International Conference on the Theory and Application of Diagrams (Proceedings of DIAGRAMS 2018, 35%)
- 2018 **Improving Comprehension of Measurements Using Concrete Re-expression Strategies**  
 Hullman, J., Kim, Y-S., Nguyen, F., and Agrawala, M.  
 ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2018, 25.7%, 666/2590)
- 2018 **Uncertainty Displays Using Quantile Dotplots or CDFs Improve Transit Decision-Making**  
 Fernandes, M., Walls, L., Munson, S., Hullman, J., and Kay, M.  
 ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2018, 25.7%, 666/2590)  
 ○ Honorable Mention Award.
- 2017 **Explaining the Gap: Visualizing One's Predictions Improves Recall and Comprehension of Data**  
 Kim, Y-S., Reinecke, K., and Hullman, J.  
 ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2017, 25%, 600/2400)  
 ● Best Paper Award.
- 2017 **GraphScape: A Model for Automated Reasoning about Visualization Similarity and Sequencing**  
 Kim, Y., Wongsuphasawat, K., Hullman, J., and Heer, J.  
 ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2017, 25%, 600/2400)  
 ○ Honorable Mention Award.
- 2017 **PersaLog: Personalization of News Article Content**  
 Adar, E., Gearig, C., Balasubramanian, A., and Hullman, J.  
 ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2017, 25%, 600/2400)
- 2016 **SimpleScience: Lexical Simplification of Scientific Terminology**  
 Kim, Y-S, Hullman, J., Burgess, M., and Adar, E.  
 Conference on Empirical Methods in Natural Language Processing (Proceedings of EMNLP 2016, 22%, 87/400)
- 2016 **Generating Personalized Spatial Analogies of Distances and Areas**  
 Kim, Y-S, Hullman, J., and Agrawala, M.  
 ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2016, 23%, 538/2300)
- 2016 **When(ish) is my Bus: User-centered Visualizations of Uncertainty in Everyday Mobile Predictive Systems**  
 Kay, M., Kola, T., Hullman, J., and Munson, S.  
 ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2016, 23%, 538/2300)
- 2015 **DeScipher: A Text Simplification Tool for Science Journalism**  
 Kim, Y-S, Hullman, J., and Adar, E.  
 Computation+Journalism
- 2015 **Designing for Personalized Article Content**  
 Gearig, C., Adar, E., and Hullman, J.  
 Computation+Journalism
- 2015 **Designing for Personalized Article Content**  
 Hullman, J., Krupka, E., and Adar, E.  
 Collective Intelligence

- 2015 **Content, Context, & Critique: Commenting on a Data Visualization Blog**  
Hullman, J., Diakopolous, N., Momeni Roochi, E., and Adar, E.  
ACM Conference on Computer-Supported Cooperative Work (Proceedings of CSCW 2025, 28%, 575/2032)
- 2014 **NewsViews: An Automated Pipeline for Creating Custom Geovisualizations for News**  
Gao, T., Hullman, J., Adar, E., Hecht, B., and Diakopoulos, N.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2014, 22.8%, 464/2034)
- 2013 **Contextifier: Automatic Generation of Annotated Stock Visualizations**  
Hullman, J., Diakopolous, N., and Adar, E..  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2013, 20%, 392/1963)
- 2011 **The Effect of Social Information on Visual Judgments**  
Hullman, J., Adar, E., and Shah, P.  
ACM Conference on Human Factors in Computing Systems (Proceedings of CHI 2011, 27%, 302/1346)

\*Through 2016, I used a convention for student papers where I listed myself earlier when I was the primary faculty mentor. From 2017 to the present, I list myself last when I am the primary faculty mentor on a publication.

## — Referred Workshop Proceedings

- 2024 **A Statistical Framework for Measuring AI Reliance**  
Guo, Z., Wu, Y., Hartline, J., and Hullman, J.  
Collaborative AI and Modeling of Humans Workshop at AAAI 2024
- 2020 **Anticipatory ethics and the role of uncertainty**  
Nanayakkara, P., Diakopoulos, N., and Hullman, J.  
NeurIPS 2020 Navigating the Broader Impacts of AI Research Workshop
- 2019 **Adaptation and Learning Priors in Visual Inference**  
Kale, A., and Hullman, J.  
VISxVISION Workshop at IEEE VIS 2019
- 2019 **Modeling the Interpretation of Visualized Statistics as Bayesian Cognition**  
Kim, Y-S., Walls, L., Krafft, P., and Hullman, J.  
Behavioral Economics Workshop at Economics and Computation (EC) 2019
- 2018 **Translating Scientific Graphics for Public Audiences**  
Qiao, X., and Hullman, J.  
VisGuides: 2nd Workshop on the Creation, Curation, Critique and Conditioning of Principles and Guidelines in Visualization Workshop at IEEE InfoVis 2018
- 2016 **Evaluating Visualization Sets: Trade-offs Between Local Effectiveness and Global Consistency**  
Qu, Z., and Hullman, J.  
Workshop on BEyond time and errors: novel evaluation methods for Information Visualization (BELIV 2016) at IEEE InfoVis 2016
- 2015 **Expectation Visualization**  
Kim, Y-S., and Hullman, J.  
Personal Visualization Workshop at IEEE InfoVis 2015
- 2013 **How Prior Knowledge Affects the Processing of Visualized Data**  
Hullman, J.  
Many People Many Eyes Workshop at ACM CHI 2013
- 2011 **Not all HITs are Created Equal: Controlling for Reasoning and Learning Processes in MTurk**  
Hullman, J.  
Workshop on Crowdsourcing and Human Computation at ACM CHI 2011



- 2011 **Chance-it: Motivating Collaborative Exploration using Spatial Layout on a Multitouch Surface**  
Hullman, J., McQuaid, M., Chia, Y., Lin, T., and Zhang, Z.  
Workshop on Large Displays in Urban Life at ACM CHI 2011
- 2010 **A Narratology-Informed Approach to Infovis Design and Evaluation**  
Hullman, J.  
Position paper. Telling Stories with Data Workshop at IEEE InfoVis 2010
- 2010 **Framing Artistic Visualization: Aesthetic Object as Evidence**  
Hullman, J.  
Workshop on Understanding the Creative Act: Modeling to Engagement at Creativity & Cognition 2009

## — Theses

- 2014 **Understanding and Supporting Trade-offs in the Design of Communicative Visualizations**  
Hullman, J.  
Dissertation. University of Michigan School of Information

## — Technical Reports

- Aug. 2019 **Mechanical Turk is Not Anonymous**  
Lease, M., Hullman, J., Bigham, J.P., Bernstein, M.S., Kim, J., Lasecki, W.S., Bakhshi, S., Mitra, T., and Miller, R.C.  
Social Science Research Network 2013. Rank: 8,366/882,206

## — Popular Press Articles

- Aug. 2021 **States Are Suing the Census Bureau Over Its Attempts to Make Data More Private**  
Nanayakkara, P., and Hullman, J.  
Slate Future Tense. <https://slate.com/technology/2021/08/census-bureaudifferential-privacy-lawsuit.html>
- Sept. 2020 **There's More Than Meets the Eye in 2020 Election Forecasts**  
Hullman, J.  
The Hill.  
<https://thehill.com/opinion/campaign/515291-theres-more-than-meets-the-eye-in-2020-election-forecasts>
- Aug. 2020 **If you want more women in your workforce, here's how to recruit**  
Pierson, E., Redmiles, E., Battle, L., and Hullman, J.  
Nature Careers. <https://www.nature.com/articles/d41586-020-02489-w>
- Aug. 2020 **Is Your Chart a Detective Story or a Police Report?**  
Gelman, A. and Hullman, J.  
WIRED. <https://www.wired.com/story/is-your-chart-a-detective-story-or-a-police-report/>
- Aug. 2020 **We Need Better Risk Communication to Combat the Coronavirus**  
Schrager, A. and Hullman, J.  
National Review.  
<https://www.nationalreview.com/2020/08/coronavirus-better-risk-communication-needed-combat-pandemic/>
- Apr. 2020 **Leading with Unknowns in COVID 19 Model Results**  
Hullman, J.  
Scientific American Blog.  
<https://blogs.scientificamerican.com/observations/leading-with-the-unknowns-in-covid-19-models/>
- Sept. 2019 **Confronting Unknowns: How to Interpret Common Visualizations of Uncertainty**  
Hullman, J.  
Scientific American. <https://www.scientificamerican.com/article/how-to-get-better-at-embracing-unknowns/>

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## Workshops Organized

- 2024 **Statistical Frontiers in LLMs and Foundation Models**  
Angelopoulos, A., Bates, S., D'Amour, A., Hashimoto, T., **Hullman, J.**, and Yang, F.  
Workshop at NeurIPS 2024.
- 2024 **Theoretical Foundations of Human-AI Complementarity**  
Organized with Jason Hartline  
IDEAL Institute Special Quarter on Interpretability, Privacy, & Fairness
- 2024 **Trust and Reliance in Evolving Human-AI Workflows (TREW)**  
Bansal, G., Bucina, Z., Wu, T., Smith-Renner, A., Ashktorab, Z., Holstein, K., Zhang, W., and **Hullman, J.**  
Workshop at ACM CHI 2024
- 2023 **Trust and Reliance in AI-Augmented Tasks (TRAIT)**  
Bansal, G., Smith-Renner, A., Bucina, Z., Wu, T., Holstein, K., **Hullman, J.**, and Stumpf, S.  
Workshop at ACM CHI 2023
- 2022 **Trust and Reliance in Human-AI Teams (TRAIT)**  
Bansal, G., Smith-Renner, A., Bucina, Z., Wu, T., Holstein, K., **Hullman, J.**, and Stumpf, S.  
Workshop at ACM CHI 2022
- 2021 **Chart Question Answering**  
Haehn, D., Franconeri, S., **Hullman, J.**, Kriegeskorte, N., and Pfister, H.  
Workshop at CVPR 2021
- 2019 **EVIVA ML: Evaluation of Interactive Visual Machine Learning**  
Boukhelifa, N., Bezerianos, A., Bertini, E., Collins, C., Drucker, S., **Hullman, J.**, and Sedlmair, M.  
Workshop at IEEE VIS 2019
- 2019 **HCI for Accurate, Impartial and Transparent Journalism: Challenges and Solutions**  
Aitamurto, T., Annany, M., Anderson, C., Birnbaum, L., Diakopoulos, N., Hansen, M., **Hullman, J.**, Ritchie, N.  
Workshop at ACM CHI 2019
- 2017 **Designing for Uncertainty: When Does Uncertainty Help?**  
Greis, M., **Hullman, J.**, Correll, M., Kay, M., and Schaefer, O.  
Workshop at ACM CHI 2017
- 2011 **Telling Stories with Data: The Next Chapter**  
Diakopoulos, N., DiMicco, J., **Hullman, J.**, Karhalios, K., and Perer, A.  
Workshop at IEEE InfoVis 2011

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## Invited Keynote Presentations

- Oct. 2024 **Benchmarking Visualization for Decision-Making**  
Keynote at 2024 Conference on Digital Experimentation (CODE @MIT). Boston, MA.
- Oct. 2024 **The Meaning of Quantified Uncertainty is its Use**  
Capstone at Uncertainty Visualization Workshop at IEEE VIS 2024. St. Petersburg, FL.
- June 2024 **Data Analysis and Imagination**  
Keynote at Theory & Methods Fortnights, Alan Turing Institute. London, UK.
- Mar. 2024 **Graphical Tools for Hypothesizing about Effects**  
Keynote at Visualizing Biological Data (VIZBI). Los Angeles, CA.

- Oct. 2022     **Toward Robust Communication of Modeling Results (*for Prediction or Explanation*)**  
Keynote at Conference on Non-traditional Data, Natural Language Processing, & Machine Learning.  
Organized by Sveriges Riksbank, U.S. Federal Reserve Board, and Bank of Italy. Stockholm, Sweden.
- July 2021     **Theories of Inference for Visualization Interactions**  
Keynote at BioVIS Workshop, co-located with ISMB.
- Oct. 2020     **Interactive Analysis Needs Theories of Inference**  
Keynote at Visualization in Data Science (VDS) Workshop, Co-located with IEEE VIS.
- June 2020     **Why Interactive Analysis Needs Theories of Inference**  
Keynote at Human-in-the-loop Data Analysis Workshop, Co-located with SIGMOD.
- Dec. 2019     **Supporting Reasoning with Uncertainty with Data Visualization**  
Keynote at Data Science and Visualization Symposium. University of Miami.
- Nov. 2019     **How to Visually Communicate Uncertain Data**  
Keynote at Conference on Global Risk, Uncertainty, & Volatility.  
Organized by U.S. Federal Reserve Board, Swiss National Bank, and Bank of Canada. Zurich, Switzerland.
- 2016           **Storytelling with Visualization**  
Keynote at Tapestry Conference. Organized by Tableau Software.

—     **Invited Presentations**

- Aug. 2024     **Benchmarking Human-AI Performance**  
Human Centered Machine Learning Workshop. Apple. Cupertino, CA.
- July 2024     **The Meaning of Quantified Uncertainty is its Use**  
Workshop on Individualized Prediction. UC Berkeley. Berkeley, CA.
- June 2024     **Opening the Human Blackbox in Model Assisted Decisions**  
BIRS Workshop on Bridging Prediction & Intervention Problems in Social Systems. Banff, CAN.
- Mar. 2024     **Data Visualization for Inference: Opportunities and Challenges**  
Health Data Science Distinguished Speaker Series. Boston University Biostatistics.
- Feb. 2024     **Strategic visualization of uncertainty**  
Workshop on Advancing Risk Communication with Decision-Makers for Tropical Cyclones.  
National Academies of Science, Engineering, & Medicine (NASEM). Washington D.C.
- Jan. 2024     **Hypothesizing about effects in experiment design and interpretation**  
Toyota Technological Institute at Chicago (TTIC).
- Sept. 2023     **Evaluating Visualizations for Inference and Decision-Making**  
Department of Statistics Colloquium, Columbia University.
- May 2023     **Toward Robust Data Visualization for Inference**  
Distinguished Data Science Lecture, Cornell University.
- May 2023     **Toward Robust Data Visualization for Inference**  
Computer Science Seminar, University of Illinois–Urbana Champaign.
- Feb. 2023     **Using theories of decision-making under uncertainty to improve data visualization**  
Behavioral Economics Seminar, Booth School of Business, University of Chicago.
- Jan. 2023     **Navigating Privacy-Utility Trade-offs in Public Data**  
Institute for Policy Research, Northwestern University.

- Nov. 2022 **Using theories of decision-making under uncertainty to improve data visualization**  
Simon's Institute at the University of California Berkeley.
- Nov. 2022 **Improving the robustness of data visualization for trustworthy inference**  
University of California Berkeley iSchool Distinguished Lecture Series.
- Nov. 2022 **Toward Robust Visualization for Inference**  
Scientific Computing & Imaging Institute (SCI) Seminar, University of Utah.
- Oct. 2022 **Visualizing Privacy-Utility Trade-offs in Differentially Private Data Releases**  
Microsoft Research Summit.
- July 2022 **The Worst of Both Worlds: A Comparative Analysis of Errors in Learning from Data in Psychology and Machine Learning**  
Princeton Workshop on Reproducibility in Machine Learning.
- June 2022 **Better Visualizations for Model Checks**  
International Society for Bayesian Analysis World Meeting, Montreal, CA.
- Mar. 2022 **Visualizations as Model Checks**  
Martin Zelen Memorial Symposium, Harvard University Department of Biostatistics.
- Mar. 2022 **Strategic Communication of Uncertainty**  
Meeting of the Presidential Council of Advisors on Science and Technology.
- Theories of Inference for Data Interactions**
- Dec. 2021 Stanford HCI Seminar.
- Nov. 2021 University of California–San Diego Data Science Seminar.
- June 2021 Bayes Webinar, Hosted by Generable.
- Apr. 2021 Cornell Behavioral Economics and Decision Research Center (BEDR)
- Dec. 2020 DREAM Lab, University of Massachusetts–Amherst.
- Nov. 2020 CMU HCII Seminar, Carnegie Mellon University.
- Jan. 2021 **Supporting Reasoning with Uncertainty with Data Visualization**  
New York City Data Viz Meetup.
- How to Communicate Uncertainty in Forecasts**
- Oct. 2020 The Centers for Disease and Control (CDC).
- Sept. 2020 After Dark Online Series, San Francisco Exploratorium.
- Beyond Visualization: Improving Reasoning Under Uncertainty from Data**
- June 2020 Dept. of Risk and Insurance, University of Wisconsin–Madison.
- May 2020 Marketing Dept., Leeds School of Business, University of Colorado–Boulder.
- Dec. 2019 **Supporting Reasoning with Uncertainty with Data Visualization**  
Washington Post, Washington D.C.
- June 2019 **Seeing What We (Should) Think Through Visualization Interaction**  
Chicago Data Vis Meetup, Chicago, IL.
- May 2019 **Improving Inference and Decision Making from Visualized Data**  
Lawrence Dumas Domain Dinner, Northwestern University, Evanston, IL.
- Supporting Reasoning with Uncertainty with Data Visualization**
- Apr. 2019 Biostats Seminar, Feinberg School of Medicine, Northwestern University, Chicago, IL.
- Mar. 2019 Michigan Interactive and Social Computer Seminar (MISC), University of Michigan, Ann Arbor, MI.
- Mar. 2019 **Interactive Visualization for News Readers' Beliefs: Why and How** (with Yea-Seul Kim)  
NICAR 2019 Invited Session, Newport Beach, CA.

- Feb. 2019 **Seeing What We (Should) Think Through Visualization Interaction**  
Medill Faculty Colloquium, Northwestern University, Evanston, IL.
- Jan. 2019 **Supporting Reasoning About Uncertainty Through Data Visualization**  
Scientific Computing & Imaging Institute, University of Utah, Salt Lake City, UT.
- Dec. 2018 NORC at the University of Chicago, Chicago, IL.
- Nov. 2018 Neubauer Collegium, University of Chicago, Chicago, IL.
- Oct. 2018 **Seeing What We (Should) Think Through Visualization Interaction**  
MIT CSAIL HCI Seminar, Boston, MA.
- June 2018 **Interrogating Shared Representations in Mixed Initiative Systems**  
Invited discussant for Jeff Heer's presentation on Agency & Automation  
HCIC, Watsonville CA.
- 2018 **Improving Data Reasoning Through Visualization and Automation**  
Northwestern University Computer Science CS+X Seminar.
- 2017 **Reconciling Single Vs. Multiple View Criteria in InfoVis** (with Zening Qu)  
Tableau Software, Seattle, WA.
- 2017 **Seeing What We Think Through Visualization Interaction**  
Northwestern University Technology & Social Behavior Series Distinguished Lecture.
- 2016 **Visualization Tools for Improving Reasoning with Data**  
Microsoft Research, New York City, NY.
- 2016 **The Visual Uncertainty Experience**  
OpenVis.
- 2016 **Data-Driven Storytelling**  
Daghstuhl seminar.
- 2015 **Uncertainty Visualization**  
NSF seminar on Hazard Mapping at University of Washington.
- 2015 **Making Sense of Scales with a Database of Measurements**  
Design Use Build (DUB) seminar at University of Washington.
- Oct. 2014 **Tools for Understanding and Repurposing Visualized Data** (with Maneesh Agrawala)  
Tableau Software, Seattle, WA.
- July 2014 **Anticipating Context in Designing Visualizations for Communication**  
Adobe, San Francisco, CA.
- June 2014 Tableau Software, Seattle, WA.
- May 2014 **Understanding and Supporting Design Trade-offs for Visualization-based Communication**  
Dept. of Computer Science, Stanford University.
- Mar. 2014 School of Interactive Computing, Georgia Tech.
- Feb. 2014 School of Information, University of Washington.
- Feb. 2014 Dept. of Cognitive Science, University of California–San Diego.
- Feb. 2014 Dept. of Computer Science, University of Minnesota.
- Jan. 2014 Dept. of Computer Science at the University of Colorado–Boulder.
- Apr. 2013 **Social and Contextual Visualizations** (with Eytan Adar)  
Gale Cengage Learning, Farmington Hills, MI.
- Nov. 2012 **Letting the Data (and People) Speak: Visualization as Communication and Analysis**  
Tableau Software, Seattle, WA.

- Oct. 2012 **Visualization as Communication and Analysis**  
Design Use Build (DUB) seminar at University of Washington.
- Aug. 2011 **Implications of the Crowd in Collaborative Visual Analytics**  
HCI Lab at Tufts University Dept. of Computer Science, Cambridge, MA.
- June 2011 **Presenting Social Information Online: Evidence of Effects on Visual Judgments**  
IBM Collaborative User Experience Research Lab (CUE), IBM T.J. Watson Research Center, Cambridge, MA.
- Oct. 2010 **Visual Stories: Adapting Narratology for InfoVis**  
F. I. R. S. T. (Featured Information Research Student Talks), University of Michigan School of Information.

## — Invited Panels & Interviews

- 2024 **Frameworks for Evaluating Individual Decisions**  
Panelist at Workshop on Individualized Prediction.  
Berkeley, CA.  
Organizer/Moderator: Ben Recht.
- 2024 **Clinical versus Statistical Prediction**  
Panelist at BIRS Workshop on Bridging Prediction & Intervention in Social Systems.  
BIRS, Banff, CA.  
Moderator: Deb Raji.
- 2024 **Communicating Uncertainty and Probabilistic Information about TC Tracks, Timing and Severity**  
Panelist at Workshop on Advancing Risk Communication with Decision-Makers for Tropical Cyclones  
National Academies of Science, Engineering, & Medicine (NASEM).  
Moderator: Ann Bostrom. Panelists: Lace Padilla.
- 2023 **Manifestation of Gender and Intersectional Bias in Artificial Intelligence**  
Panelist at Northwestern Pritzker School of Law Conference on Gender and Intersectional Bias  
in Artificial Intelligence  
Moderator: Dan Linna. Panelists: Hammond, K., Rahman, H., Worsley, M.
- 2023 **ChatGPT and Generative Artificial Intelligence**  
Panelist at Northwestern Center for Advancing Safety of Machine Intelligence  
Moderator: Kris Hammond. Panelists: David Leake, Ben Lorica.
- 2022 **Future Paths**  
Panelist at Princeton Workshop on Reproducibility in Machine Learning  
Moderator: Arvind Narayanan. Panelists: Hofman, J., Stewart, B.
- 2021 **CDC ERASE Maternal Mortality Workshop**  
Panelist  
Moderator: Amanda Makulec. Panelists: Fowlers, A., Schwabish, J.
- 2021 **CDC Data Visualization Day**  
Panelist  
Moderator: Amanda Makulec. Panelists: Burn-Murdoch, J., Meeks, E.
- 2020 **Communicating uncertainty**  
Panelist at Computation+Journalism 2020  
Moderator: Alberto Cairo. Panelists: Christiansen, J., D'Ignazio, C.
- 2020 **Uncertainty Representations**  
Interview with Data Skeptic podcast, Interpretability series  
<https://dataskeptic.com/blog/episodes/2020/uncertainty-representations>

- 2020 **Uncertainty Representations**  
Interview with Data Skeptic podcast, Interpretability series  
<https://dataskeptic.com/blog/episodes/2020/uncertainty-representations>
- 2019 **The State-of-the-Art and Future of Uncertainty Visualization**  
Panel organizer / chair at Joint Statistical Meetings of the American Statistical Association (JSM)  
Panelists: Kay, M., Kirby, M., and Padilla, L.
- 2019 **What Makes a Successful Data Visualization**  
Panelist at Joint Statistical Meetings of the American Statistical Association (JSM)  
Moderator: Du Toit, N. Panelists: Fingerson, L., Robbins, N. and Tyner, S.
- 2019 **Visualizing Uncertainty with Jessica Hullman and Matthew Kay**  
Interview with Data Stories Podcast  
<http://datastori.es/134-visualizing-uncertainty-with-jessica-hullman-and-matthew-kay/>
- 2018 **IEEE VIS 2018 Highlights with Jessica Hullman and Robert Kosara**  
Interview with Data Stories Podcast  
<https://datastori.es/130-highlights-from-ieee-vis-2018/>
- 2018 **Data Visualization in Psychology: Some Principles and Practices**  
Panelist at Conference of the Association of Psychological Science (APS)  
Moderator: Kevin Lanning. Panelists: Tverksy, B., Wickham, H.
- 2017 **IEEE VIS 2017 Highlights with Jessica Hullman and Robert Kosara**  
Interview with Data Stories Podcast  
<http://datastori.es/108-review-of-ieee-vis17-with-jessica-hullman-and-robert-kosara/>
- 2016 **IEEE VIS 2016 Highlights with Jessica Hullman and Robert Kosara**  
Interview with Data Stories Podcast  
<http://datastori.es/86-highlights-from-ieee-vis16-with-jessica-hullman-and-robert-kosara/>
- 2016 **How Can We Improve Empirical Research on Understanding Visual Information?**  
Panelist at IEEE InfoVis 2016  
Moderator: Pierre Dragicevic. Panelists: Haroz, S., Kay, M., Rensink, R.
- 2016 **Critical Visualization**  
Panelist at IEEE InfoVis 2016  
Moderator: Angus Forbes. Panelists: Offenhuber, D., Paris-Westbrook, J., Trowbridge, A.
- 2015 **The Art and Science of Data Visualization**  
Panelist at University of Washington eScience  
Panelists: Heer, J., Howe, B.
- 2014 **Narrative Visualization Research with Jessica Hullman**  
Interview with Data Stories Podcast  
<http://datastori.es/ds40-narrative-vis-research-w-jessica-hullman/>

## — Teaching

Northwestern University, Evanston, IL.

### Instructor and creator

- 2023–2024 CS 497: Explanation and Reproducibility in Data-Driven Science  
2019– CS 396 / 496: Interactive Information Visualization  
2018–2021 JOUR 474: Data Analysis & Communication for Journalists

### Instructor

- 2021– CS 401: Introduction to Graduate Studies in Computer Science

	The University of Washington, Seattle, WA
	<b>Instructor and creator</b>
2015–2018	INFO 474: Interactive Information Visualization
2015–2018	INFX 562: Interactive Information Visualization
	The University of California, Berkeley, CA
	<b>Co-instructor</b> (with M. Agrawala)
2014	CS294-10: Visualization
	The University of Michigan, Ann Arbor, MI
	<b>Graduate Student Instructor</b>
2011	SI 649/749: Information Visualization
2011	SI 508/708: Networks: Theory and Application
2007	Russian 347
2007–2008	Russian 348
2006–2007	English 367

## — Current Ph.D. Students

2024-	Chair. <b>Dawei Xie</b> . Ph.D. student, Northwestern University Computer Science.
2023-	Chair. <b>Kelly Jiang</b> . Ph.D. student, Northwestern University Computer Science.
2023-	Co-chair. <b>Negar Kamali</b> . Ph.D. student, Northwestern University Computer Science.
2022-	Chair. <b>Ziyang Guo</b> . Ph.D. student, Northwestern University Computer Science.
2019-	Co-chair. <b>Abhraneel Sarma</b> . Ph.D. student, Northwestern University Computer Science.
2019-	Co-chair. <b>Paula Kayongo</b> . Ph.D. student, Northwestern University Computer Science.

## — Former Ph.D. Students & Committees

2024	Chair. <b>Priyanka Nanayakkara</b> . Ph.D. student, Northwestern University Technology & Social Behavior.
2024	Chair. <b>Hyeok Kim</b> . Ph.D. student, Northwestern University Computer Science.
2024	Chair. <b>Dongping Zhang</b> . Ph.D. student, Northwestern University Technology & Social Behavior.
2022	Chair. <b>Alex Kale</b> . Ph.D. student, University of Washington Information School.
2020	Chair. <b>Yea-Seul Kim</b> . Ph.D. student, University of Washington Information School.
2024	Committee member. <b>Lukas Lazarek</b> . Ph.D. student, Northwestern University Computer Science.
2022	Committee member. <b>Ethan Manilow</b> . Ph.D. student, Northwestern University Computer Science.
2020	Committee member. <b>Younghoon Kim</b> . Ph.D. student, University of Washington Computer Science & Engineering
2018	Committee member. <b>Daniel Epstein</b> . Ph.D. student, University of Washington Computer Science & Engineering
2018	Committee member. <b>Ray Hong</b> . Ph.D. student, University of Washington Human-Centered Design & Engineering

## — Professional Service

2021–2024	<b>Associate Editor</b> IEEE Transactions on Visualization and Computer Graphics (TVCG).
2022	<b>Scientific Advisor</b> Member of CSAC, Council of Scientific Advisors to the U.S. Census



### Conference Organization

- 2023 ACM FAccT, Program Chair
- 2022 IEEE VIS, Posters Chair
- 2021 Computation+Journalism, General Chair
- 2020–2021 IEEE VIS, Organizing Committee: Tutorials Chair
- 2020 Computation+Journalism, Program Chair
- 2019 IEEE VIS, Organizing Committee: Community Chair

### Program Committees

- 2017; ICLR 2024, IEEE VIS 2021, 2020; ACM CHI 2019; IEEE InfoVis 2019, 2018, 2016; EuroVis S.T.A.R. 2018, HILDA 2017, 2018; Computation+Journalism 2016, 2017, 2018; BELIV 2016; ACM UIST 2015



### Institutional Service

- 2024 **Chair, Ph.D. Admissions.** Northwestern University Computer Science.
- 2024 **Ginni Rometty Chair Committee.** Northwestern University Computer Science.
- 2023 **Faculty Hiring Committee.** Northwestern University Computer Science.
- 2021, 2019 **Ph.D. Admissions Committee.** Northwestern University Technology & Social Behavior.
- 2019–2022 **Strategic Planning Committee.** Northwestern University Computer Science.
- 2018–2019 **Curriculum Committee.** Northwestern University Journalism.
- 2017–2018 **Open Faculty Search Committee.** University of Washington Information School.
- 2016–2017 **Data Science Lecturer Search Committee (Chair).** University of Washington Information School.
- 2016–2018 **Admissions Committee.** University of Washington Information School.