Chase Stokes

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chasejstokes.github.io

I am a mixed methods researcher situated at the intersection of language and visualization. My work focuses on the challenges and opportunities presented by communicating data and information, examining the use and impact of text elements in design.

EDUCATION

PhD. in Information Science	2021 – present

University of California at Berkeley
Advisor: Marti Hearst, PhD.
Relevant coursework: HCI Research, UX Research, Information Visualization and Presentation, Experiments and Causal Inference, Computational Social Science

B.A. in Psychology and Gender and Sexuality Studies	2021

Northwestern University, GPA 3.92
Advisor: Steven Franconeri, PhD.

RESEARCH EXPERIENCE

Graduate Student Researcher	2021 – present

Hearst Lab, UC Berkeley

Temporary Research Assistant	Summer 2024

Northeastern University, Khoury College

Research Intern	Summer 2023

Tableau

Undergraduate Research Assistant	2018 – 2021

Visual Thinking Lab, Northwestern University

Data Collector	Summer 2021

Couple and Family Development Lab, The Family Institute at Northwestern University

Undergraduate Research Assistant	2019 – 2021

Couple and Family Development Lab, The Family Institute at Northwestern University

Undergraduate Summer Intern	Summer 2019

Couple and Family Development Lab, The Family Institute at Northwestern University

PUBLICATIONS

Stokes, C., & Hearst, M.A. (2024). "It's a Good Idea to Put It Into Words": Writing `Rudders' in the Initial Stages of Visualization Design. *IEEE Transactions on Visualization and Computer Graphics.*

Stokes, C., Sanker, C., Cogley, B., & Setlur, V. (2024). From Delays to Densities: Exploring Data Uncertainty through Speech, Text, and Visualization. In *Computer Graphics Forum, 43*(3), e15100. https://doi.org/10.1111/cgf.15100

Stokes, C., Sanker, C., Cogley, B., & Setlur, V. (2024). Mixing Modes: Active and Passive Integration of Speech, Text, and Visualization for Communicating Data Uncertainty. *Computer Graphics Forum*. https://doi.org/10.2312/evs.20241072

Stokes, C., Bearfield, C. X., & Hearst, M.A. (2023). The Role of Text in Visualizations: How Annotations Shape Perceptions of Bias and Influence Predictions. *IEEE Transactions on Visualization and Computer Graphics, 30*(10), 6787-6800. https://doi.org/10.1109/tvcg.2023.3338451

Bearfield, C. X., **Stokes, C.,** Lovett, A., & Franconeri, S. (2023). What Does the Chart Say? Grouping Cues Guide Viewer Comparisons and Conclusions in Bar Charts. *IEEE Transactions on Visualization and Computer Graphics, 30*(8), 5097-5110. https://doi.org/10.1109/TVCG.2023.3289292

Stokes, C., Setlur, V., Cogley, B., Satyanarayan, A., and Hearst, M.A. (2022). Striking a Balance: Reader Takeaways and Preferences when Integrating Text and Charts. *IEEE Transactions on Visualization and Computer Graphics, 29*(1), 1233-1243. https://doi.org/10.1109/TVCG.2022.3209383

Xiong, C., **Stokes, C.,** Kim, Y. S., & Franconeri, S. (2022). Seeing What You Believe or Believing What You See? Belief Biases Correlation Estimation. *IEEE Transactions on Visualization and Computer Graphics, 29*(1), 493-503. https://doi.org/10.1109/TVCG.2022.3209405

WORKSHOP PAPERS

Stokes, C., Sanker, C., Cogley, B., and Setlur, V. (2024). Voicing Uncertainty: How Speech, Text, and Visualizations Influence Decisions with Data Uncertainty, in Uncertainty Workshop, *IEEE Transactions on Visualizations and Computer Graphics*

Stokes, C., and Hearst, M.A. (2022). Why More Text is (Often) Better: Themes from Reader Preferences for Integration of Charts and Text, in NLVIZ Workshop, *IEEE Transactions on Visualization and Computer Graphics.*

Stokes, C., and Hearst, M.A. (2021). Give Text A Chance: Advocating for Equal Consideration for Language and Visualization, in NLVIZ Workshop, *IEEE Transactions on Visualization and Computer Graphics.*

POSTERS AND PRESENTATIONS

Stokes, C. (2024). Combining Text and Visuals for Effective Data Communication. Presentation at the Doctoral Colloquium at IEEE VIS Conference 2024.

Stokes, C., Xiong, C., & Hearst, M.A. (2022, Nov). Driving Reader Interpretations with Text Annotations in Data Visualizations. Poster presented at Society for Judgement and Decision Making, San Diego, CA.

Xiong, C., **Stokes, C.,** Lovett, A., & Franconeri, S. (2021, May). Visual Salience and Grouping Cues Guide Relation Perception in Visual Data Displays. Poster presented at Virtual Vision Sciences Society.

Stokes, C., Xiong, C., & Franconeri, S. (2020, May). Seeing What You Want: Prior Belief Biases Perception of Correlation in Scatterplots. Poster presented at Virtual 32nd APS Annual Convention, Chicago, IL.

Callahan, C., **Stokes, C.,** & Lawrence, E. (2020, May). Modifying the Relationship Quality Interview for Sexual and Gender Minority Couples. Accepted Poster Presentation at the 8th Annual LGBTQ Research Symposium at the University of Illinois at Urbana-Champaign. (Conference canceled due to COVID-19)

FELLOWSHIPS, AWARDS, AND HONORS

Fellowships

NSF Graduate Research Fellowship Program Recipient	2023 – present
Ford Foundation Predoctoral Fellowship Honorable Mention	2023
School of Information Fellowship for Doctoral Study	2021 – 2022

Awards

National Merit Finalist	2017 – 2021

Honors

Departmental Honors - Psychology	2021
Phi Beta Kappa	2021
Northwestern University Dean's List with Distinction	2017 – 2021

GRANTS

Northwestern Summer Undergraduate Research Grant ($3,500)	Summer 2020
Visual Grouping Affords Different Comparison Patterns in Visualized Data	
Northwestern Academic Year Research Grant ($1,000)	2020
Variations in Conclusions Afforded by Chart Type	

STUDENT LEADERSHIP ROLES

Underrepresented Applicant Feedback Program	2023
Co-coordinated initiative to provide feedback to underrepresented PhD. applicants	
NorCal Visualization Group Organizer	2022 – 2023
Organized 6 unique speakers for hour-long seminars	
Trainings Chair	2019 – 2020
Masculinity, Allyship, Reflection, and Solidarity (M.A.R.S.)	

Participant Coordinator,	2019 – 2020
Pre-Orientation Program Coordinator	2018 – 2019
Alternative Student Breaks (A.S.B.)	
Programming Committee	2018 – 2019
Rainbow Alliance	

STUDENT MEMBERSHIPS

Association for Computing Machinery, Student Member	2021 – present
Psychonomic Society, Student Member	2021 – present
Cognitive Science Society, Student Member	2021 – present
Society for Judgment and Decision Making, Student Member	2021 – present

AD-HOC REVIEWS

ACM Computer-Human Interaction (CHI)	2022 - 2024
Transactions on Visualization and Computer Graphics (TVCG)	2023 - 2024
Ocean and Coastal Research	2023
Journal of Official Statistics	2023
IEEE VIS Short Papers	2022
Creativity & Cognition	2021

SERVICE AND OUTREACH

PhD. Applicant Feedback Program	2022 - 2024
Coordinated program providing feedback to underrepresented applicants.	
Student Volunteer at IEEE VIS	2022
25th Anniversary of the Master of Information Management and Systems	2022
Facilitated two 30-minute panels	
Washington University School of Medicine	2019, 2021
Mini-Medical School Panelist	
Alternative Student Breaks	2017 – 2019
College Mentors for Kids	2017 – 2019