

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 2017 - 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

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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)

TEACHING EXPERIENCE

Graduate Student Instructor	Spring 2023
<i>INFO 247: Information Visualization and Presentation, UC Berkeley</i>	

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
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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
<i>Visual Grouping Affords Different Comparison Patterns in Visualized Data</i>	
Northwestern Academic Year Research Grant (\$1,000)	2020
<i>Variations in Conclusions Afforded by Chart Type</i>	

STUDENT LEADERSHIP ROLES

Underrepresented Applicant Feedback Program	2023
<i>Co-coordinated initiative to provide feedback to underrepresented PhD. applicants</i>	
NorCal Visualization Group Organizer	2022 – 2023

Organized 6 unique speakers for hour-long seminars

Trainings Chair <i>Masculinity, Allyship, Reflection, and Solidarity (M.A.R.S.)</i>	2019 – 2020
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Participant Coordinator,	2019 – 2020
Pre-Orientation Program Coordinator	2018 – 2019
<i>Alternative Student Breaks (A.S.B.)</i>	

Programming Committee <i>Rainbow Alliance</i>	2018 – 2019
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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 <i>Coordinated program providing feedback to underrepresented applicants.</i>	2022 - 2024
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Student Volunteer at IEEE VIS	2022
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25th Anniversary of the Master of Information Management and Systems <i>Facilitated two 30-minute panels</i>	2022
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Washington University School of Medicine <i>Mini-Medical School Panelist</i>	2019, 2021
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Alternative Student Breaks	2017 – 2019
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College Mentors for Kids	2017 – 2019
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REFERENCES PROVIDED UPON REQUEST