Chase Stokes

chasejstokes.github.io | chase stokes@berkeley.edu

I am a mixed methods researcher examining the challenges and opportunities presented by communicating data and information. My work is situated at the intersection of language and visualization, specifically considering the use and impact of text elements in visual designs.

EDUCATION

PhD. in Information Science | University of California Berkeley

2021 – present

Dissertation: Combining Text and Visuals for Effective Data Communication

Advisor: Professor Marti Hearst

Northwestern University

2017 - 2021

B.A. in Psychology and Gender and Sexuality Studies | GPA: 3.9/4.0, Magna Cum Laude Advisor: Professor Steven Franconeri

RESEARCH/WORK EXPERIENCE

2021 – present

Graduate Student Researcher

Becise Presentations | Chicago, IL

Summer 2025

Applied AI Solutions Intern

Northeastern University | Oakland, CA

Summer 2024

Temporary Research Assistant

Tableau Research at Salesforce | Palo Alto, CA

Summer 2023

PhD Research Intern

Northwestern University | Evanston, IL

2018 - 2021

Undergraduate Research Assistant

The Family Institute at Northwestern University

2019-2021

Undergraduate Research Assistant

PUBLICATIONS

2025

Stokes, C., Arunkurmar, A., Hearst, M.A., & Padilla, L (2025). An Analysis of Text Functions in Information Visualization. *IEEE Transactions on Visualization and Computer Graphics,* Accepted.

Stokes, C., Lin, K., & Bearfield, C. X. (2025). Write, Rank, or Rate: Comparing Methods for Studying Visualization Affordances. *IEEE Transactions on Visualization and Computer Graphics*, Accepted.

Stokes, C., Hu, 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*. 1-11. https://doi.org/10.1109/TVCG.2024.3456324
- **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

- Lin, K., **Stokes, C.**, and Bearfield, C.X. (2025) LLMs Are Not Reliable Human Proxies to Study Affordances in Data Visualizations, in *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems, HEAL Workshop.*
- Stokes, C., Sanker, C., Cogley, B., and Setlur, V. (2024). Voicing Uncertainty: How Speech, Text, and Visualizations Influence Decisions with Data Uncertainty, in Proceedings of IEEE Transactions on Visualization and Computer Graphics, Uncertainty Workshop, 17-27. https://doi.org/10.1109/uncertaintyvis63963.2024
- **Stokes, C.,** and Hearst, M.A. (2022). Why More Text is (Often) Better: Themes from Reader Preferences for Integration of Charts and Text, in *Proceedings of IEEE Transactions on Visualization and Computer Graphics, NLVIZ Workshop.*
- **Stokes, C.,** and Hearst, M.A. (2021). Give Text A Chance: Advocating for Equal Consideration for Language and Visualization, in *Proceedings of IEEE Transactions on Visualization and Computer Graphics, NLVIZ Workshop.*

POSTER PRESENTATIONS

- **Stokes, C.** (2024). Considerations for Generating Text to Communicate Data Insights Effectively. Poster presented at the Spring 2025 EPIC Lab Advance.
- **Stokes, C**. (2024). Combining Text and Visuals for Effective Data Communication. Presentation at the Doctoral Colloquium at 2024 IEEE VIS Conference.
 - **Stokes, C**. (2024). Writing as a Tool in Visualization Design. Poster presented at the Fall 2024 EPIC Lab Advance.
- **Stokes, C.,** Xiong, C., & Hearst, M.A. (2022). Driving Reader Interpretations with Text Annotations in Data Visualizations. Poster presented at Society for Judgement and Decision Making, San Diego, CA.
 - **Stokes, C**. (2024). Striking a Balance: Reader Takeaways and Preferences when Integrating Text and Charts. Poster presented at the Fall 2022 EPIC Lab Advance.
- Xiong, C., Stokes, C., Lovett, A., & Franconeri, S. (2021). 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). 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). 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

University of California Berkeley | Berkeley, CA

Reader/Teaching Assistant
Graduate Student Instructor

Spring 2025 Spring 2023

INFO 247: Information Visualization and Presentation

INVITED TALKS

CS 4460: Introduction to Information Visualization | Atlanta, GA

Georgia Institute of Technology

Guest Lecture: Text Visualization and Text in Visualization February 2025

Cognition and Visualization Lab | Atlanta, GA

Emory University

Beyond Visuals: The Critical Impact of Text on Data Interpretation February 2025

EPIC Lab Retreat | Berkeley, CA

University of California, Berkeley

Writing as a Tool in Visualization Design October 2024

The Role and Ramifications of Text Decision Making with Uncertainty Lab Meeting Virtual University of Washington Combining Language and Visualization FELLOWSHIPS, AWARDS, AND GRANTS Fellowships NSF Graduate Research Fellowship Program Recipient Ford Foundation Predoctoral Fellowship Honorable Mention School of Information Fellowship for Doctoral Study Awards Outstanding Graduate Student Instructor Grants Northwestern Summer Undergraduate Research Grant (\$3,500) Visual Grouping Affords Different Comparison Patterns in Visualized Data Northwestern Academic Year Research Grant (\$1,000) Variations in Conclusions Afforded by Chart Type STUDENT LEADERSHIP ROLES Applicant Feedback Program Coordinated initiative to provide feedback to 100+ prospective PhD. applicants NorCal Visualization Group Organizer Cordinated initiative to provide feedback to 100+ prospective PhD. applicants STUDENT MEMBERSHIPS Association for Computing Machinery, Student Member 2021 – present Cognitive Science Society, Student Member 2021 – present Cognitive Science Society, Student Member 2021 – 2023 AD-HOC REVIEWS ACM Computer-Human Interaction (CHI) 2022 – 2025 Fransactions on Visualization for Communication (Program Committee) Visual Informatics 2025 Visual Informatics 2026 Dornal of Computational Social Science 2027 Cocan and Coastal Research 2021 Cocan and Coastal Research 2023 2026 2027 2027 2027 2028	EPIC Lab Retreat Berkeley, CA University of California, Berkeley	
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Journal of Official Statistics	2023
IEEE VIS Short Papers	2022
Creativity & Cognition	2021
SERVICE AND OUTREACH	
Student Volunteer at IEEE VIS	2022
25th Anniversary of the Master of Information Management and Systems Facilitated two 30-minute panels	2022

REFERENCES PROVIDED UPON REQUEST