

# Chase Stokes

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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 EXPERIENCE

**University of California Berkeley | Berkeley, CA** *2021 – present*

Graduate Student Researcher

**Northeastern University | Oakland, CA** *Summer 2024*

Temporary Research Assistant

**Tableau Research at Salesforce | Palo Alto, CA** *Summer 2023*

Research Intern

**Northwestern University | Evanston, IL** *2018 – 2021*

Undergraduate Research Assistant

**The Family Institute at Northwestern University** *2019-2021*

Undergraduate Research Assistant

## PUBLICATIONS

- 2024**     **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>

- 2023**     **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>
- 2022**     **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

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- 2025**     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*.
- 2024**     **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>
- 2022**     **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*.
- 2021**     **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

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- 2025**     **Stokes, C.** (2024). Considerations for Generating Text to Communicate Data Insights Effectively. Poster presented at the Spring 2025 EPIC Lab Advance.
- 2024**     **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.
- 2022**     **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.

**2021** 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.

**2020** **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

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**University of California Berkeley** | Berkeley, CA

Reader/Teaching Assistant

*Spring 2025*

Graduate Student Instructor

*Spring 2023*

*INFO 247: Information Visualization and Presentation*

## INVITED TALKS

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**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*

Guest Lecture: Text Visualization and Text in Visualization

*February 2025*

**EPIC Lab Retreat** | Berkeley, CA

*University of California, Berkeley*

Writing as a Tool in Visualization Design

*October 2024*

**EPIC Lab Retreat** | Berkeley, CA

*University of California, Berkeley*

The Role and Ramifications of Text

*October 2024*

**Decision Making with Uncertainty Lab Meeting** | Virtual

*University of Washington*

Combining Language and Visualization

*January 2023*

## FELLOWSHIPS, AWARDS, AND GRANTS

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**Fellowships**

NSF Graduate Research Fellowship Program Recipient	2023 – 2026
Ford Foundation Predoctoral Fellowship Honorable Mention	2023
School of Information Fellowship for Doctoral Study	2021 – 2022

### **Awards**

Outstanding Graduate Student Instructor	Spring 2023
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### **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**

Applicant Feedback Program	2023 – present
<i>Coordinated initiative to provide feedback to 100+ prospective PhD. applicants</i>	
NorCal Visualization Group Organizer	2022 – 2023
<i>Organized 6 unique speakers for hour-long seminars</i>	

### **STUDENT MEMBERSHIPS**

Association for Computing Machinery, Student Member	2021 – present
Psychonomic Society, Student Member	2021 – present
Cognitive Science Society, Student Member	2021 – 2024
Society for Judgment and Decision Making, Student Member	2021 – 2023

### **AD-HOC REVIEWS**

ACM Computer-Human Interaction (CHI)	2022 - 2025
Transactions on Visualization and Computer Graphics (TVCG)	2023 – 2025
PacificVis: VisNotes ( <i>Program Committee</i> )	2025
Journal of Computational Social Science	2024
Ocean and Coastal Research	2023
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	2022
<i>Facilitated two 30-minute panels</i>	

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REFERENCES PROVIDED UPON REQUEST