# **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 EXPERIENCE**

<b>University of California Berkeley</b>	Berkeley, CA
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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**

- **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*.
- **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*. <a href="https://doi.org/10.2312/evs.20241072">https://doi.org/10.2312/evs.20241072</a>
- **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. <a href="https://doi.org/10.1109/TVCG.2022.3209405">https://doi.org/10.1109/TVCG.2022.3209405</a>

#### **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 2024 IEEE VIS Conference.
- **Stokes, C**. (2024). Writing as a Tool in Visualization Design. Presentation at the Fall 2024 EPIC Lab Advance.
- **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**

University of California Berkeley   Berkeley, CA	Spring 2023
Graduate Student Instructor	
INFO 247: Information Visualization and Presentation	
FELLOWSHIPS, AWARDS, AND GRANTS	
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
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
Coordinated initiative to provide feedback to 50+ underrepresented PhD. appli	cants
NorCal Visualization Group Organizer	2022 – 2023
Organized 6 unique speakers for hour-long seminars	
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 – 2023
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	
Student Volunteer at IEEE VIS	2022

REFERENCES PROVIDED UPON REQUEST