

# Chase Stokes

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[chasejstokes.github.io](https://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 multimodal information displays, examining how language shapes readers' experiences and understandings of visualized data. I aim to identify best practices for integrating text and visualizations and improve the effectiveness of information communication.

## EDUCATION

PhD. in Information Science <i>University of California at Berkeley</i> <i>Advisor: Marti Hearst, PhD.</i> Relevant coursework: HCI Research, UX Research, Information Visualization and Presentation, Interface Aesthetics	2021 – present
B.A. in Psychology and Gender and Sexuality Studies <i>Northwestern University, GPA 3.92</i> <i>Advisor: Steven Franconeri, PhD.</i>	2021

## RESEARCH EXPERIENCE

Graduate Student Researcher <i>Hearst Lab, UC Berkeley</i>	2021 – present
Temporary Research Assistant <i>Northeastern University, Khoury College</i>	Summer 2024
Research Intern <i>Tableau</i>	Summer 2023
Undergraduate Research Assistant <i>Visual Thinking Lab, Northwestern University</i>	2018 – 2021
Data Collector <i>Couple and Family Development Lab, The Family Institute at Northwestern University</i>	Summer 2021
Undergraduate Research Assistant <i>Couple and Family Development Lab, The Family Institute at Northwestern University</i>	2019 – 2021
Undergraduate Summer Intern <i>Couple and Family Development Lab, The Family Institute at Northwestern University</i>	Summer 2019

## PUBLICATIONS

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- 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 Uncertainty through Speech, Text, and Visualization. *Computer Graphics Forum*.
- 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*.
- 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*.
- 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*.
- 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*.
- 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*.

## WORKSHOP PAPERS

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

## POSTERS AND PRESENTATIONS

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- 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)

## **FELLOWSHIPS, AWARDS, AND HONORS**

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### **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**

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

## **STUDENT LEADERSHIP ROLES**

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Underrepresented Applicant Feedback Program <i>Co-coordinated initiative to provide feedback to underrepresented PhD. applicants</i>	2023
NorCal Visualization Group Organizer <i>Organized 6 unique speakers for hour-long seminars</i>	2022 – 2023
Trainings Chair <i>Masculinity, Allyship, Reflection, and Solidarity (M.A.R.S.)</i>	2019 – 2020
Participant Coordinator, Pre-Orientation Program Coordinator <i>Alternative Student Breaks (A.S.B.)</i>	2019 – 2020 2018 – 2019
Programming Committee <i>Rainbow Alliance</i>	2018 – 2019

## **STUDENT MEMBERSHIPS**

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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**

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

### **SERVICE AND OUTREACH**

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25th Anniversary of the Master of Information Management and Systems <i>Facilitated two 30-minute panels</i>	2022
PhD. Applicant Feedback Program <i>Provided feedback to underrepresented applicants</i>	2022 - 2023
Student Volunteer at IEEE VIS	2022
Washington University School of Medicine <i>Mini-Medical School Panelist</i>	2019, 2021
Alternative Student Breaks	2017 – 2019
College Mentors for Kids	2017 – 2019

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REFERENCES PROVIDED UPON REQUEST