Chase Stokes
chasejstokes.github.io | stokeschasej@gmail.com

I combine **human-centered research and AI/ML solutions** to help organizations **communicate data more effectively**, design impactful product features, and conduct higher-quality, evidence-based research.

PROFESSIONAL EXPERIENCE

AI/ML Solutions Specialist *May 2025 – Present*

Becise Presentations | Chicago, IL

- Designed functional prototypes for AI-powered workflows and product features, collaborating with engineering and design teams for backend and frontend implementation
- Built a 6-class image classification pipeline using a multi-stage random forest approach, achieving 88% accuracy across classes.
- Developed rule-based algorithms for sizing charts/tables dynamically based on content and layout constraints, ensuring clear visual data presentation
- Created multi-agent workflows leveraging Azure OpenAI and Google Apps Script for structured output generation and semantic interpretation of semi-structured text content

UX & Data Visualization Research Intern *Summer 2023*

Tableau Research at Salesforce | Palo Alto, CA

- Led 2 large-scale crowdsourced studies (800+ participants) to evaluate multimodal data communication
- Engineered and evaluated 2 interactive prototypes; conducted user studies with 20 participants; developed recommendations for use of speech and animation in data communication
- Filed patent pending for innovative data presentation technology incorporating text, visualization, and speech information to support decision-making under uncertainty
- Published 3 papers in peer-reviewed journals; presented research at industry and academic venues

Graduate Researcher – Data Communication and Visualization *2021 - Present*

UC Berkeley | Berkeley, CA

- Directed 5 research teams and mentored 4 undergraduate and graduate students to develop and conduct innovative research at the forefront of data communication
- Designed and executed 3 large-scale, pre-registered crowdsourced experiments (1,600+ participants) with advanced statistical model to derive actionable design insights
- Conducted 39 semi-structured interviews with visualization designers to identify workflow challenges and create user-centered design recommendations
- Published 6 peer-reviewed papers; presented at leading conferences, translating complex findings into design and product guidance

Teaching Assistant – Information Presentation and Visualization *Spring 2023*

UC Berkeley | Berkeley, CA

- Developed and delivered 14 educational modules on visualization tools (Tableau, D3.js, Observable Plot, Figma)
- Created hands-on coding exercises for interactive visualizations; improved student proficiency in both code and no-code environments
- Let two graduate-level lectures on visualization practices and perceptual foundations

TECHNICAL SKILLS

Programming & Data Tools: R, Python, D3.js, Tableau, Figma, Observable Plot, JavaScript, HTML/CSS, Google Apps Script, Azure OpenAI, Machine Learning, Agentic AI, RAG Techniques, Random Forest Classifiers

Research & Analysis: Experiment Design, Advanced Statistical Analysis, Multi-Level Modeling, Semi-Structured Interviews, UX Research, Prototyping, User Testing, Data Storytelling, Cross-Team Collaboration

EDUCATION

PhD in Information Science | UC Berkeley *2021 – [est.] Aug 2025.*

Dissertation: Combining Text and Visuals for Effective Data Communication

Relevant Coursework: User Experience Research, Information Visualization and Presentation, Experiments and Causal Inference, Computational Social Science, Applied Natural Language Processing, Generative AI (Graph RAG)

B.A. in Psychology & Gender Studies | Northwestern University *2017 - 2021*
GPA: 3.9/4.0, Magna Cum Laude

SELECT 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.

Stokes, C., Sanker, C., Cogley, B., & Setlur, V. (2024). Mixing Modes: Active and Passive Integration of Speech, Text, and Visualization for Communicating Data Uncertainty.

Stokes, C., Setlur, V., Cogley, B., Satyanarayan, A., & Hearst, M.A. (2022). Striking a Balance: Reader Takeaways and Preferences when Integrating Text and Charts.

FELLOWSHIPS AND INVOLVEMENT

NATIONAL SCIENCE FOUNDATION *2023 - present*
National Science Foundation Graduate Research Program Fellowship Recipient

FORD FOUNDATION *2023*
Ford Foundation Predoctoral Fellowship Honorable Mention

APPLICANT FEEDBACK PROGRAM *2022 - present*
Coordinator; organized 20 PhD student volunteers to provide unique feedback to 60+ prospective applicants