Kylie R. Lin

Doctoral Student, Human-Centered Computing klin368@gatech.edu
School of Interactive Computing, Georgia Institute of Technology kylierlin.github.io

RESEARCH INTERESTS

Information Visualization, Human Cognition, Trust in Automated Systems, Research Methods.

EDUCATION

Atlanta, GA
2023 – Present

Georgia Institute of Technology
Ph.D. in Human-Centered Computing
Advisor: Cindy Xiong Bearfield
GPA: 4.0 / 4.0

Evanston, IL
2019 – 2023

Northwestern University
B.S. in Communication Studies & Cognitive Science
Minor in Data Science | Module in Digital Media
Advisors: David Rapp, Steven Franconeri
magna cum laude, SoC Dean's List (all eligible terms), Lambda Pi Eta Honor Society
GPA: 3.98 / 4.0

RESEARCH EXPERIENCE

San Francisco, CA
Summer 2026

Google
User Experience Research Intern | Health & Home
Advisors: Marie Huber, Anna Wojnarowska
Research on user expectations of multimodal outputs and source citations in AI-powered health coach conversations.

Atlanta, GA
2023 – Present

Georgia Institute of Technology
Graduate Student Researcher | VisualizaXiong Lab
Advisor: Cindy Xiong Bearfield
Studying how design choices impact people's perception of data visualizations and metrics to assess people's trust in automated systems.

Los Altos, CA
Winter 2026

Toyota Research Institute
Research Intern | Human-Centered AI Team
Advisor: Laura Libby
Human-subjects research on how people interpret and trust presentations of simulated survey data.

Summer 2024

Applied Behavioral Science Research Intern | Human-Centered AI Team
Advisor: Laura Libby
Conducted research on vehicle owners' perceptions of electric vehicle battery degradation, identifying methods to mitigate misunderstanding.

Evanston, IL
2022 – 2023

Northwestern University
Student Researcher | Reading Comprehension Lab
Advisor: David Rapp
Conducted an honors thesis on the impact of visual complexity on people's comprehension of data visualizations and their confidence in their comprehension.

2020 – 2023

Research Assistant | Visual Thinking Lab
Advisor: Steven Franconeri
Conducted research at the intersection of human cognition and data visualization.
Co-authored a paper on chart alignment impacting human comparisons to IEEE TVCG.

Spring 2021

Research Assistant | Social Media Lab
Advisor: Jeremy Birnholtz
Developed a codebook for qualitative survey data using data-driven open coding for a project on how young people disclose sensitive health information online.

Remote
Summer 2022

SiriusXM
User Experience Research Intern | Automotive Experience Design Team
Manager: Katie Bessière
Developed a framework for competitive benchmarking research. Successfully executed benchmarking studies: handled the recruitment and live interviewing of 12 participants via UserTesting software.

PUBLICATIONS

CONFERENCE PUBLICATIONS

Lin, K., Guan, H.., Rapp, D. N., & Xiong Bearfield, C. (2026). A Four-Stage Framework of Visual Complexity and Trust as Mediated by Effort. *Proceedings of the 2026 Pacific Visualization Conference in Sydney, Australia.*

Lin, K., Ru S. S., Chang, M., & Xiong Bearfield, C. (2026). beautiVis: An Annotated Visualization Dataset from Reddit's r/dataisbeautiful. *Proceedings of the 2026 Pacific Visualization Conference in Sydney, Australia.* Acceptance rate: 35.6%

Stokes, C.*, **Lin. K.***, & Xiong Bearfield, C. (2025). Write, Rank, or Rate: Comparing Methods for Studying Visualization Affordances. *IEEE Transactions on Visualization and Computer Graphics.* Acceptance rate: 24.4%

Lin, K., Li, J., Sparks, J., Filipowicz, A., Shamma, D. & Libby, L. (2025). SOH Illusion: Misunderstandings of EV Battery State of Health and Methods to Promote Understanding. *Proceedings of the 17th International Conference on Automotive User Interfaces and Interactive Vehicular Applications.* Acceptance rate: 44%
🏆***Best Paper Honorable Mention (Top 10%)***

Lin, K., Ru, S. S., Rapp, D. N., Guan, H. & Xiong Bearfield, C. (2025). What Makes a Visualization Visually Complex? In *Extended Abstracts of the CHI Conference on Human Factors in Computing Systems.* Acceptance rate: 32.83%

Lin. K., Stokes, C. & Xiong Bearfield, C. (2025). LLMs Are Not Reliable Human Proxies to Study Affordances in Data Visualizations. *2nd HEAL Workshop at CHI Conference on Human Factors in Computing Systems (HEAL @ CHI 2025)*.

Xiong, C., Setlur, V., Bach, B., **Lin, K.**, Koh, E., Franconeri, S. (2021). Visual Arrangements of Bar Charts Influence Comparisons in Viewer Takeaways. *IEEE Transactions on Visualization and Computer Graphics.* Acceptance rate: 25.5%

JOURNAL PUBLICATIONS

Wang, H. W., **Lin, K**., Cohen, A., Kennedy, R., Zwald, Z., Nobre, C., & Bearfield, C. X. Do You "Trust" This Visualization? An Inventory to Measure Trust in Visualizations. IEEE Transactions on Visualization and Computer Graphics. DOI: 10.1109/TVCG.2025.3646847

POSTERS

Lin, K., Paik, M. J., & Xiong Bearfield, C. (2026). Exploring the Mental Representation of Visualization Complexity through Measurement Methods. [Poster session]. *Vision Sciences Society Annual Meeting.*

Stokes, C., **Lin, K. R.,** & Bearfield, C. X. (2025). Elicitation strategies for capturing information visualization affordances. *Proceedings of the Annual Meeting of the Cognitive Science Society (Vol. 47).*

Lin, K., Ru, S., Rapp, D., Guan, H., Bearfield, C. X. (2024). What Makes a Visualization Complex? Exploring Design Features Related to Visual Complexity. [Poster session]. *IEEE Visualization and Visual Analytics Conference.*

Lin, K., Rapp, D., Xiong, C. (2023). Does Visual Complexity Impact Reader Comprehension and Confidence of Data Visualizations? [Poster session]. *Psychonomic Society.*

Awad, M. F., **Lin, K.,** & Franconeri, S. L. (2023). Mixed Graph Designs Do Not Improve Visual Memory. *Journal of Vision*, 23(9), 5781-5781.

Lin, K., Rapp, D., Xiong, C. (2023). The Effect of Visual Complexity on Confidence and Comprehension in Visualization Experiences. [Poster session]. *Northwestern Cog Sci Fest*.

Awad, M., **Lin, K.**, & Franconeri, S. (2022). Does using a diversity of graph types help your audience remember your data?. *Journal of Vision*, *22*(14), 4279-4279.

Lin, K., Xiong, C., Rapp, D. (2022). Attempts to Augment Refutation Text Benefits with Visualizations. [Poster session]. *Northwestern Undergraduate Research & Arts Exposition.*

Lin, K., Awad, M.F., Franconeri, S. (2022). The Effects of Visual Diversity in Series of Charts. [Poster session]. *Northwestern Cog Sci Fest.*

INVITED TALKS

Atlanta, GA
May 2025

Conceptualizing Visual Complexity and Trust in Data Visualizations
CODA AI Synapse, Atlanta, Georgia, USA (hosted by Jitesh Jain)

Schloss Daghstul
Oct. 2024

Quantifying Perceptions of Visual Complexity with Data Visualization Design Features
Artificial and Human Intelligence, Schloss Daghstul, Germany (hosted by Mehul Bhatt)

FELLOWSHIPS & AWARDS

2025 Best Paper Honorable Mention (ACM AutoUI 2025)
2023 Northwestern Communication Studies Excellence Award for Undergraduate Students
2022 MinneAnalytics Scholarship ($500)
2021 2nd Place, Women in Data Science Datathon, Chicago
2021 Northwestern Cognitive Science Summer Undergraduate Research Fellowship ($3500)
2021 Northwestern OUR Summer Undergraduate Research Grant ($3500, awarded but declined)
2020 1st Place, Northwestern Data Visualization Contest
Interactive global map depicting the number of COVID-19 cases over time using RShiny. Submission published to university archives, see here.
2020 Finalist, McCormick Design-a-Thon
Conducted market research and created a wireframe for an app promoting safe social interactions for university students in the time of COVID-19.
2019 Clara Tao Memorial Scholarship ($1000)
2017 National Merit Commended Scholar

INTERNATIONAL VISITING & DEVELOPMENT

Schloss Dagstuhl
Fall 2024

Training Forum on Artificial and Human Intelligence
Host: Mehul Bhatt
Presented an in-progress research project on using visualization design features to model perceived visual complexity in visualizations.

ACADEMIC SERVICES

CONFERENCE REVIEWER

2026 IEEE Visualization Conference, VisxGenAI Workshop
2026 ACM Conference on Intelligent User Interfaces (IUI)
2026 IEEE Pacific Visualization Conference, Visualization Meets AI Workshop
2025 ACM Conference on Human Factors in Computing Systems (CHI)
2024 ACM Conference on Human Factors in Computing Systems (CHI)
2021 ACM Creativity and Cognition

TEACHING EXPERIENCE

Teaching Assistant

Fall 2026	Human-Centered Data Analysis (GATech)
Fall 2025	Principles of Data Visualization (GATech)
Spring 2023	Data Science Project (NU)
2022 – 2023	Data Visualization (NU)
Winter 2021	Persuasive Images: Rhetoric in Popular Culture (NU)

Peer Mentor

Fall 2021	Communication & Technology (NU)

WORKSHOP ORGANIZATION

2026 **VisxVision** Satellite Workshop, Vision Sciences Society Annual Meeting

ADDITIONAL PROFESSIONAL EXPERIENCE

Belmont, CA
2021 – 2022

Just One Cookbook
Operations Analyst
Managers: Shen Chen, Namiko Chen

Co-coordinated the launch of an online subscription membership program (JOC Plus) by designing site pages, advertisements, and by helping facilitate a soft launch.

2020 – 2021

Digital Media Intern

Conducted research on global site traffic using R/RStudio and Google Search Console.

Evanston, IL
2020 – 2021

North by Northwestern
Graphics Editor & Social Media Graphics Coordinator

Taught weekly design lessons covering design principles, Adobe CC basics, accessibility design, 3D graphics, and more to undergraduate students.

Remote
Summer 2020

Paravane Ventures
Market Research & Strategy Case Analyst

Analyzed the UX/UI and website of the company Product Alliance and the online market for product management courses.

Evanston, IL
Summer 2018

Northwestern-Medill Journalism Institute
Student Journalist

Residency for U.S. and international students. Included writing, video production, ethics, and digital media.

RELEVANT COURSEWORK

Georgia Institute of Technology

Human-Computer Interaction
Principles of Data Visualization (CS 6730)
Information Visualization (CS 7450)
Human-Centered Data Analysis (CS 7451)
Prototyping Interactive Systems (CS 6452)

Social Computing
Design of Online Communities (CS 6470)

Northwestern University

Data Science & Visualization
Data Science I-III (STAT 301-1, 301-2, 301-3)
Data Visualization (STAT 302)
Information Visualization (COMM ST 395)

Programming
Fundamentals of Computer Programming I-II (CS 111, 211)
Introduction to Artificial Intelligence (CS 348)
Introduction to Cognitive Modeling (COG SCI 207)

Research Methods
Evaluating Evidence (COG SCI 202)
Cognitive Science Proseminar (COG SCI 366)
Research Seminar (COMM ST 394)
Presenting Ideas and Data (COG SCI 345)

SELECT SKILLS

Human-Subjects Research

Survey study design
Qualtrics
Prolific
Amazon Mechanical Turk

Other study design
UserTesting
EyeLink 1000 eye tracker

Qualitative data analysis
Thematic analysis
data-driven open coding
semi-structured interviewing

Quantitative data analysis
R/RStudio/RShiny
Python (pandas, sci-kit learn, Jupyter Notebooks)

Programming

Python	Arduino	Processing
HTML/CSS	C/C++	Javascript
D3.js	Tableau	ggplot2
matplotlib	seaborn	PowerBI

DESIGN
Adobe Creative Suite: Photoshop, Illustrator, Premiere, After Effects, Dimension, XD
Microsoft 365: Excel, Powerpoint, Word
Google Workspace: Drive, Sheets, Docs, Slides, Colab
Figma, Miro