Ziwei Gu

CONTACT INFORMATION

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RESEARCH INTERESTS

Human-Computer Interaction (HCI)
Natural Language Processing, Machine Learning, Human-AI Collaboration

EDUCATION

Harvard University, Cambridge, Massachusetts

Ph.D. Computer Science, *August 2022 – Present*
Advised by Elena Glassman, Assistant Professor of Computer Science
GPA: 3.88/4

Cornell University, Ithaca, New York

B.A. Computer Science, Magna cum laude, *August 2017 – December 2020*
B.A. Mathematics, *August 2017 – December 2020*
GPA: 3.83/4

PEER-REVIEWED PAPERS

Ziwei Gu, Joyce Zhou, Ning-Er (Nina) Lei, Jonathan K. Kummerfeld, Mahmood Jasim, Narges Mahyar, and Elena L. Glassman. AbstractExplorer: Leveraging Structure-Mapping Theory to Enhance Comparative Close Reading at Scale. *In ACM Symposium on User Interface Software and Technology (UIST)*, 2025.

Ziwei Gu, Ian Arawjo, Kenneth Li, Jonathan K. Kummerfeld, and Elena L. Glassman. An AI-Resilient Text Rendering Technique for Reading and Skimming Documents. *In ACM CHI Conference on Human Factors in Computing Systems (CHI)*, 2024.

Katy Ilonka Gero, Chelse Swoopes, **Ziwei Gu**, Jonathan K. Kummerfeld, and Elena L. Glassman. Supporting Sensemaking of Large Language Model Outputs at Scale. *In ACM CHI Conference on Human Factors in Computing Systems (CHI),* 2024.

Ziwei Gu, Owen Raymond, Naser Al Madi, and Elena L. Glassman. Why Do Skimmers Perform Better with Grammar-Preserving Text Saliency Modulation (GP-TSM)? Evidence from an Eye Tracking Study. *In ACM CHI Conference on Human Factors in Computing Systems Late Breaking Work (CHI LBW),* 2024.

Ziwei Gu[*], Gauri Jain[*], Hongwen Song[*], Isak Diaz[*], Margaux Masson-Forsythe[*], and Jorge Valdes. BiomeAzuero2022: A Fine-Grained Dataset and Baselines for Tree Species Classification with Ground Images. *In the 37th AAAI Conference on Artificial Intelligence (AAAI-23) AI for Social Good Workshop*, 2023.

Jing Nathan Yan, **Ziwei Gu**, and Jeffrey M Rzeszotarski. Tessera: Discretizing Data Analysis Workflows on a Task Level. *In ACM CHI Conference on Human Factors in Computing Systems (CHI),* 2021.

Ziwei Gu[*], Jing Nathan Yan[*], and Jeffrey M Rzeszotarski. Understanding User Sensemaking in Machine Learning Fairness Assessment Systems. *In WWW'21: The Web Conference (WWW)*, 2021.

Jing Nathan Yan, **Ziwei Gu**, Hubert Lin, and Jeffrey M Rzeszotarski. Silva: Interactively Assessing Machine Learning Fairness Using Causality. *In ACM CHI Conference on Human Factors in Computing Systems (CHI),* 2020.

*: Equal contribution

Industry Experience

Lyft, San Francisco, California

Data Scientist Intern — *2020*

- Estimated the opportunity size of Lyft Family and promoted the successful launch of this feature.
- Clustered rider profiles and recommended incentive products targeting each segment of users.
- Upgraded Lyft's data analysis and visualization tool after seeking input from scientists and engineers across the company.

Data Scientist — *2021-2022*

- Experimented with new interface designs and initiatives that increased driver engagement by 8%.

Teaching Experience

Head Teaching Fellow, COMPSCI 178 Engineering Usable Interactive Systems, Harvard CS — *2023*
Graduate Teaching Assistant, CS 4410 Operating Systems, Cornell CS — *2021*
Teaching Assistant, CS 4780 Machine Learning, Cornell CS — *2019-2020*
Teaching Assistant, CS 3410 Computer System Organization and Programming, Cornell CS — *2020*
Teaching Assistant, CS 2110 Object-Oriented Programming and Data Structures, Cornell CS — *2018-2019*

Other Experience

Treasurer, Harvard Chinese Students and Scholars Association (HCSSA) — *2022-Present*
Fellow (Intellectual and Cultural), The Student Center at Harvard Griffin GSAS — *2023-2025*
Project Lead, Statistics Faculty Award winner, Cornell Data Science Team — *2018-2020*
Resident Advisor, Clara Dickson Hall, Cornell University — *2019-2021*

Latest update: 08/2025