

Ziyang Guo

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Education

- 2022–27* **Ph.D. in Computer Science**
Chair: Jessica Hullman
Northwestern University, Evanston, IL
- 2018–22 **B.E. in Computer Science**
Honors with distinction.
Zhejiang University, Hangzhou, China

Research Experience

- 2022– **Graduate Research Assistant**
MUCollective, Northwestern University
- 2021 **Undergraduate Research Assistant**
Data Interaction Group, Carnegie Mellon University
- 2018–2021 **Undergraduate Research Assistant**
Interaction Data Group, Zhejiang University

Awards & Honors

- 2019 Chu Kochen Honors College Innovation Scholarship (top 2%)
2019 Zhejiang Provincial Scholarship (top 5%)

Publications

Peer-reviewed Conference Proceedings

- 2026 **The Value of Information in Human-AI Decision-making**
Guo, Z. and Wu, Y. and Hartline, J. D. and Hullman, J.
The Fourteenth International Conference on Learning Representations (ICLR)
- 2024 **A Decision Theoretic Framework for Measuring AI Reliance**

*Expected.

Guo, Z., Wu, Y., Hartline, J. D., and Hullman, J.
ACM Conference on Fairness, Accountability, & Transparency (Proceedings of FAccT 2024)

- 2020 **Visual Analytics of Multivariate Event Sequence Data in Racquet Sports**
Wu, J., **Guo, Z.**, Wang, Z. and Xu, Q. and Wu, Y.
2020 IEEE conference on visual analytics science and technology (VAST)

Journal Articles

- 2024 **VMC: A Grammar for Visualizing Statistical Model Checks.**
Guo, Z., Kale, A., Kay, M., Hullman, J.
IEEE Transactions on Visualization and Computer Graphics (Proceedings of IEEE VIS 2024, 23.2%, 129/557)
- 2023 **Evm: Incorporating Model Checking into Exploratory Visual Analysis.**
Kale, A., **Guo, Z.**, Qiao, X. L., Heer, J., and Hullman, J.
IEEE Transactions on Visualization and Computer Graphics (Proceedings of IEEE VIS 2023, 24.6%, 133/539)
- 2023 **The Rational Agent Benchmark for Data Visualization.**
Wu, Y., **Guo, Z.**, Mamakos, M., Hartline, J., and Hullman, J.
IEEE Transactions on Visualization and Computer Graphics (Proceedings of IEEE VIS 2023, 24.6%, 133/539)
- 2022 **Rasipam: Interactive Pattern Mining of Multivariate Event Sequences in Racket Sports.**
Wu, J., Liu, D., **Guo, Z.**, and Wu, Y.
IEEE Transactions on Visualization and Computer Graphics (Proceedings of IEEE VIS 2022, 24.9%, 110/441)
- 2021 **TacticFlow: Visual Analytics of Ever-changing Tactics in Racket Sports.**
Wu, J., Liu, D., **Guo, Z.**, Xu, Q., and Wu, Y.
IEEE Transactions on Visualization and Computer Graphics (Proceedings of IEEE VIS 2021, 25.8%, 114/442)

Workshop Proceedings

- 2024 **Unexploited Information Value in Human-AI Collaboration**
Guo, Z. and Wu, Y. and Hartline, J. D. and Hullman, J.
NeurIPS 2024 Workshop on Behavioral Machine Learning.

Preprints

- 2025 **Explanations are a means to an end**
Guo, Z., Ustun, B., Hullman, J.

Teaching

Teaching Assistantship

2021-2022 **Teaching Assistant**, Computer Architecture
Zhejiang University

Academic Service

Paper Reviews

2025 The ACM Conference on Human Factors in Computing Systems (CHI)
2025 The ACM Conference on Fairness, Accountability, and Transparency (FAccT)

Last updated: February 23, 2026