

# Ziyang Guo

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guoziyang27.github.io

## 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

### 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)

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\*Expected.

- 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)

### Peer-reviewed Conference Proceedings

- 2024 **A Decision Theoretic Framework for Measuring AI Reliance**  
**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)

### 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.

## 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)

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