

郭文轩 | Wenxuan Guo

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🎓 教育经历

芝加哥大学，布斯商学院	2021.09 – 至今
统计与计量经济博士 导师: Tengyuan Liang , Panos Toulis	
芝加哥大学，统计学院	2019.09 – 2021.06
统计硕士 导师: Lek-Heng Lim	
复旦大学，数学科学学院	2015.09 – 2019.06
理学学士 导师: 张淑芹	

🔬 科研兴趣

因果推断: 随机化假设检验 (Randomization Inference), 实验设计 (Experimental Design)
序贯决策 (Sequential Decision Making): 在线学习 (Online Learning), 序贯实验设计 (Sequential Experiments)

📄 论文发表与预印本

- Wenxuan Guo, Tengyuan Liang, Panos Toulis (2025). [Gaussianized Design Optimization for Covariate-Balancing in Randomized Experiments](#), ACM Conference on Economics and Computation (EC'2025), extended abstract. Main paper under review at Journal of the Royal Statistical Society Series B (JRSS-B).
- Wenxuan Guo, JungHo Lee, Panos Toulis (2025). [ML-assisted Randomization Tests for Complex Treatment Effects in A/B Experiments](#).
- Wenxuan Guo, Panos Toulis (2024). [Invariance-based Inference in High-Dimensional Regression with Finite-Sample Guarantees](#), Reject and Resubmission at Journal of the American Statistical Association (JASA).
- YoonHaeng Hur, Wenxuan Guo, Tengyuan Liang (2023). [Reversible Gromov-Monge Sampler for Simulation-Based Inference](#), SIAM Journal on Mathematics of Data Science (SIMODS).
- Wenxuan Guo, YoonHaeng Hur, Tengyuan Liang, Christopher Ryan (2022). [Online Learning to Transport via the Minimal Selection Principle](#), Conference on Learning Theory (COLT).

🔍 目前研究

- Wenxuan Guo, Panos Toulis, Yuhao Wang (2025). Finite-Sample Valid Permutation Inference for Multi-way Clustering and Missing Data, in preparation.

🏢 学术界服务

- 机器学习会议 (Neurips, ICML) 与统计期刊审稿人
- 助教服务
 - 时间序列分析: 预测与模型构建 | Time-series Analysis for Forecasting and Model Building (2025)
 - 应用计量经济 | Applied Econometrics (2024, 2025)
 - 商业统计 | Business Statistics (2024, 2025, 2026)
 - 现代应用优化 | Modern Applied Optimization (2023)
 - 基于矩阵分解的多元数据分析 | Multivariate Data Analysis via Matrix Decompositions (2020)

学术汇报

- Gaussianized Design Optimization for Covariate-Balancing in Randomized Experiments
 - 田野实验前沿会议 | Advances with Field Experiments Conference (AFE' 2025), 芝加哥大学, 美国. 09/2025.
 - 联合统计会议 | Joint Statistical Meetings (JSM'2025), 纳什维尔, 美国. 08/2025.
 - ACM经济学与计算会议 | ACM Conference on Economics and Computation (EC'2025), 斯坦福大学, 美国. 07/2025.
- ML-assisted Randomization Tests for Complex Treatment Effects in A/B Experiments
 - 美国因果推断会议 | American Causal Inference Conference, 底特律, 美国. 05/2024.
 - 因果推断在线研讨会 | Online Causal Inference Seminar, 线上, 12/2024. 讨论人: 李欣然, 芝加哥大学助理教授。
- Invariance-based Inference in High-Dimensional Regression with Finite-Sample Guarantees
 - 第二届全国统计与数据科学联合会议 (JCSDS'2024), 昆明, 中国. 07/2024.
- Statistics of the Shepp p -product
 - 代数统计在线研讨会 | Algebraic Statistics Online Seminar, 线上, 02/2021.