

WENXUAN GUO

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Education

University of Chicago, Booth School of Business

Sep. 2021 – Present

Ph.D. in Econometrics and Statistics

Chicago, IL

University of Chicago, Department of Statistics

Sep. 2019 – Jul. 2021

M.S. in Statistics

Chicago, IL

Fudan University, School of Mathematical Sciences

Sep. 2015 – Jul. 2019

B.S. in Mathematical Sciences

Shanghai, China

Research Interests

- Experimental design and randomization inference in causal inference; High dimensional statistics.

Work in Progress

- **Wenxuan Guo**, Tengyuan Liang, Panos Toulis (2024). Gaussianized Design Optimization for Covariate-Balancing, in preparation.
- **Wenxuan Guo**, JungHo Lee, Panos Toulis (2024). ML-assisted Randomization Tests for Complex Treatment Effects in A/B Experiments, in preparation.

Publications and Preprints

- **Wenxuan Guo**, Panos Toulis (2024). [Invariance-based Inference in High-Dimensional Regression with Finite-Sample Guarantees](#), submitted to 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).

Academic Service

- Reviewers for major ML conferences (Neurips, ICLR)
- Teaching Assistantship
 - Applied Econometrics (2024)
 - Business Statistics (2024, 2025)
 - Modern Applied Optimization (2023)
 - Multivariate Data Analysis via Matrix Decompositions (2020)

Presentations

Invariance-based Inference in High-Dimensional Regression with Finite-Sample Guarantees, Joint Conference on Statistics and Data Science in China (JCSDS), 2024

ML-assisted Randomization Tests for Complex Treatment Effects in A/B Experiments, American Causal Inference Conference (ACIC), 2024

Invariance-based Inference in High-Dimensional Regression with Finite-Sample Guarantees, ChicagoBooth ESC PhD Seminar, 2024

Shepp p -product, Algebraic Statistics Online Seminar, 2021