

Wenbin Zhou

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EDUCATION

Carnegie Mellon University

2023 - Present

Ph.D. in Machine Learning and Public Policy

Advisor: Shixiang (Woody) Zhu

University of Science and Technology of China

2019 - 2023

B.S. in Statistics

WORK EXPERIENCES

Carnegie Mellon University

Sept 2024 - Present

Research Assistant

Argonne National Laboratory

May 2024 - Sept 2024

Technical Research Aide

JOURNALS

Journal articles (published, in revision, or submitted)

- [1] Wenbin Zhou, and Shixiang Zhu, *Hierarchical Probabilistic Conformal Prediction for Distributed Energy Adoption*. Submitted.

- **Runners-up**, INFORMS Data Mining Best Applied Paper, 2025.
- **Best paper award**, IEEE Power & Energy Society, 2025.

- [2] Wenbin Zhou and Jin-Hong Du, *Distance-Preserving Spatial Representations of Genomic Data*. To appear in IEEE/ACM Transactions on Computational Biology and Bioinformatics.

Refereed Conference Proceedings

- [1] Wenbin Zhou, Liyan Xie, Zhigang Peng, and Shixiang Zhu, *Sequential Online Change Point Detection via Denoising Score Matching*. Allerton Conference on Communications, Control, and Computing, 2025.
- [2] Aoran Zhang, Wenbin Zhou, Liyan Xie, and Shixiang Zhu, *Recurrent Neural Goodness-of-Fit Test for Time Series*. International Conference of Artificial Intelligence and Statistics (AISTATS). 2025.
- [3] Shenghao Wu, Wenbin Zhou, Minshuo Chen, and Shixiang Zhu. *Counterfactual Generative Models for Time-Varying Treatment*. ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD). 2024.

- **Spotlight** (5 out of 44), Deep Generative Models for Health Workshop, NeurIPS 2023.

Preprints and Working papers

- [1] Wenbin Zhou and Shixiang Zhu, *When robustness meets conservativeness: Conformalized uncertainty calibration for balanced decision making*. Preprint. 2025.

- [2] Wenbin Zhou, Agni Orfanoudaki, and Shixiang Zhu, *Conformalized Decision Risk Assessment*. Preprint. 2025.

HONORS & AWARDS

First Place, YinzOR Student Conference Poster Competition $\times 2$	<i>2023, 2025</i>
Institute for Mathematical and Statistical Innovations (IMSI) Travel Grant	<i>2024</i>
Winner's Prize, 13th S.-T. Yau College Student Mathematics Contest	<i>2022</i>
First Class, USTC Outstanding Student Scholarship $\times 2$ ($\leq 3\%$ winning rate)	<i>2020, 2022</i>

TEACHING EXPERIENCES

Undergraduate Teaching Assistant at USTC:

- Regression Analysis (01714601) *Fall 2022*
- A Primer to Game Theory (MNSC200101) *Spring 2023*

PROFESSIONAL SERVICE

Session Chair for “Predictive Analytics for High-Stakes Decision Making” at INFORMS 2024.

Session Chair for Flash Talk and Poster Session at YinzOR 2024.

Journal Referee for INFORMS Journal on Computing.

Journal Referee for IEEE Transactions on Smart Grid.

Journal Referee for IEEE Transactions on Power Delivery.

Journal Referee for Journal of Agricultural, Biological and Environmental Statistics.

Conference Reviewer for ICLR(2025), NeurIPS (2025), KDD (2023, 2024), AISTATS (2025), ACML (2024, 2025), IEEE PESGM (2025).