

Huiyuan Wang

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RESEARCH INTERESTS

Graphical Models

Graphical models are a framework that uses graphs to visualize the dependencies among random variables.

Deconfounding Methods

Deconfounding methods aim to mitigate the potential impact of unobserved confounding variables, thereby improving the accuracy and robustness of estimated statistical relationships.

EDUCATION

Peking University

Beijing, China

Ph.D. in Statistics, School of Mathematical Sciences

Sep. 2018 – Jun. 2023

Supervisor: Professor Wei Lin

Selected Coursework: Advanced Theory of Statistics. Advanced Theory of Probability. Stochastic Processes.

Nankai University

Tianjin, China

B.A. in Statistics, School of Mathematical Sciences

Sep. 2014 – Jun. 2018

Selected Coursework: Mathematical Statistics. Probability Theory. Mathematical Analysis. Measure Theory.

PUBLICATIONS & PREPRINTS

(* indicates the co-first authorship)

- Huiyuan Wang, Yalong Lyu*, Wei Lin. (2021). Temporal Point Processes Graphical Models. *arXiv:2110.11562*.
- Shucong Zhang, Huiyuan Wang, Wei Lin. (2022). CARE: Large Precision Matrix Estimation for Compositional Data. *Resubmitted to Journal of the American Statistical Association after revision*.
- Caizhi Tang, Huiyuan Wang*, Xinyu Li, et al. (2022). Debiased Causal Tree: Heterogeneous Treatment Effects Estimation with Unmeasured Confounding. *NeurIPS*.
- Caizhi Tang, Huiyuan Wang*, Xinyu Li, et al. (2023). Difference-in-Differences Meets Tree-based Methods: Heterogeneous Treatment Effects Estimation with Unmeasured Confounding. *ICML*.

TEACHING EXPERIENCE

Advanced Theory of Statistics II	Teaching assistant, SMS, Peking University	Spring 2021
Advanced Mathematics D	Teaching assistant, SMS, Peking University	Fall 2020
Modern Statistical Modelling	Teaching assistant, SMS, Peking University	Spring 2020
• Assisting with course preparation; Leading problem-solving or tutorial sessions; Grading assignments and exams		

TALKS AND PRESENTATIONS

- The 4th National Academic Forum for Doctoral Students in Statistics, Guangzhou, China, 11/2020
- The 12th National Probability and Statistics Conference, Qingdao, China, 4/2023

PROFESSIONAL SERVICES

Journal of Computational and Graphical Statistics	Referee	2022,2023
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TECHNICAL SKILLS

Languages	: Mandarin (native), English (fluent)
Programming	: R, Python, \LaTeX