Huiyuan Wang

Updated June 5, 2023

Email: huiyuan.wang@pku.edu.cn
Phone: (+86) 18810198227
Correspondence address: 259 Science Building 5, Peking University, Beijing 100871, China

Research interests

High-dimensional statistics, distributed inference, graphical models

Education

Peking University **Sep. 2018 – Present**
Ph.D. in Statistics, School of Mathematical Sciences
Mentor: Professor Wei Lin.

Nankai University **Sep. 2014 – Jun. 2018**
B.A. in Statistics, School of Mathematical Sciences
Selected coursework: Mathematical statistics, Probability theory, Mathematical analysis, Measure theory. *GPA: 91/100 (rank: 3/82).*

Honors

The Excellent Poster Award of the The Sixth Peking University–Tsinghua University Statistical Forum 2022

The Second Prize of the Fourth National Academic Forum for Doctoral Students in Statistics (Chinese Association for Applied Statistics) 2020

Outstanding Graduate (Nankai University) 2018

Scholarships

Dean's Scholarship (Peking University) 2018

National Inspirational Scholarship (Nankai University) 2017

First-class Scholarship (Nankai University) 2016

National Inspirational Scholarship (Nankai University) 2015

Working papers

Temporal Point Processes Graphical Models

Huiyuan Wang, Yalong Lyu, Wei Lin.
arXiv preprint arXiv:2110.11562

Absolute or Relative: Basis Regression with Compositional Data
Huiyuan Wang, Chang Cui, Wei Lin.
Manuscript, 2022; Chang Cui shares the distinction of being the first author

CARE: Large Precision Matrix Estimation for Compositional Data
Shucong Zhang, Huiyuan Wang, Wei Lin.
Resubmitted to JASA after revision, 2022.

Functional Linear Regression with Unmeasured Confounding

Huiyuan Wang, Yalong Lyu, Wei Lin.
Manuscript, 2022

Published papers

Debiased Causal Tree: Heterogeneous Treatment Effects Estimation with Unmeasured Confounding
Caizhi Tang[*], Huiyuan Wang[*], Xinyu Li, Qing Cui, Ya-Lin Zhang, Feng Zhu, Longfei Li, Jun Zhou, Linbo Jiang.
NeurIPS 2022; Huiyuan Wang shares the distinction of being the first author

Difference-in-Differences Meets Tree-based Methods: Heterogeneous Treatment Effects Estimation with Unmeasured Confounding
Caizhi Tang[*], Huiyuan Wang[*], Xinyu Li, Qing Cui, Longfei Li, Jun Zhou.
ICML 2023; Huiyuan Wang shares the distinction of being the first author

Teaching experience

Teaching assistant, SMS, Peking University Spring 2021
Advanced Theory of Statistics II

Teaching assistant, SMS, Peking University Fall 2020
Advanced Mathematics D

Teaching assistant, SMS, Peking University Spring 2020
Modern Statistical Modelling

Teaching assistant, SMS, Peking University Fall 2019
Statistical Learning

Talks and tutorials

CARE: large precision matrix estimation for compositional data Nov., 2020
The Fourth National Academic Forum for Doctoral Students in Statistics (held by Chinese Association for Applied Statistics)

Heterogeneous Federated Learning on Arbitrary Graphs Apr., 2023
The 12th National Probability and Statistics Conference

Skills

Programming Proficient in Python and R

Languages English (fluent), Chinese (native)

Other interests

Table tennis, Running, and Climbing