Haotian Lin

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Research Interests

Statistical transfer learning, Distributional Shift, Functional and longitudinal data analysis, Differential Privacy, Kernel methods

Education

The Pennsylvania State University — Aug.2019 – Present
Department of Statistics — University Park, PA, USA
Ph.D. in Statistics
Advisor: Matthew Reimherr

University of Science and Technology of China — Aug.2015 – Jun.2019
School of the Gifted Young — Hefei, China
B.S. in Statistics

Preprints

Spectral Algorithms with Gaussian Kernel: Robustness and Optimality
Haotian Lin, Matthew Reimherr
(Submitted)

Publications

Pure Differential Privacy for Functional Summaries via a Laplace-like Process
Haotian Lin, Matthew Reimherr
To appear in *Journal of Machine Learning Research (JMLR)* 2024

Smoothness Adaptive Hypothesis Transfer Learning
Haotian Lin, Matthew Reimherr
International Conference on Machine Learning (ICML) 2024

On Hypothesis Transfer Learning of Functional Linear Models
Haotian Lin, Matthew Reimherr
International Conference on Machine Learning (ICML) 2024

Service

Reviewer for the following journals: Computational Statistics and Data Analysis, Journal of Statistical Computation and Simulation.

Reviewer for the following conference: AISTATS 2024; NeuIPS 2024

Teaching Experience

Pennsylvania State University

STAT 184: Introduction to R (Undergraduate)	Summer 2024
STAT 440: Computational Statistics (Undergraduate)	Spring 2023
STAT 319: Elementary Mathematical Statistics (Undergraduate)	Spring 2022

Work Experience

Google — May 2022 - Aug.2022
Display Ads — Mountain View, CA, USA
Data Scientist Intern
Work on enhancing the predictive accuracy of the expected revenue for Ads queries across multiple platforms via a personalized bias regularized Multi-task learning framework, which efficientizes the revenue-resources trade-off procedure in Ads auction.