

# XINTAO XIA

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## EDUCATION

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**Iowa State University of Science and Technology**

Fall 2019 - Present

- Doctor of Philosophy, Statistics

**University of Science and Technology of China**

Fall 2014 - Spring 2019

- Bachelor of Science, Mathematics
- Bachelor of Natural Science, Physics

## AWARDS

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**Hannan Graduate Student Travel Award**

Institute of Mathematical Statistics 2024

**Research Excellence Award**

Iowa State University 2023

**George W. Snedecor Award - Most Outstanding Ph.D. Candidate in Statistics**

Iowa State University 2021

**Department Award for Early Academic Achievement - Outstanding Performance in First-Year Courses and the MS Exam**

Iowa State University 2020

**Excellent Student Scholarship** University of Science and Technology of China 2014 - 2019

**Elite Class Award**

University of Science and Technology of China 2014 - 2019

## RESEARCH INTEREST

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Statistical Inference in Differential privacy; Causal inference; Causal discovery; High dimensional statistics; False discovery rate control;

## PAPERS

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- 1 **Xintao Xia** and Zhanrui Cai. Adaptive False Discovery Rate Control with Privacy Guarantee. *Journal of Machine Learning Research*, 24:1–35, 2023
- 2 **Xintao Xia**, Linjun Zhang and Zhanrui Cai. *Differentially Private Sliced Inverse Regression: Minimax Optimality and Algorithm*, arXiv: 2401.08150. (R&R at Journal of the American Statistical Association).
- 3 **Xintao Xia**, Xiaofei Zhang and Wayne Fuller. *Estimation for Nearest Neighbor Imputed Survey Data*. (Major revision at Journal of Survey Statistics and Methodology).

## WORKING PAPERS

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- 4 Zhanrui Cai, Sai Li, **Xintao Xia**\* and Linjun Zhang. *Private Estimation and Inference in High-Dimensional Regression with FDR Control*, arXiv: 2310.16260. (Submitted to Journal of Machine Learning Research)

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\*In alphabetical order.

- 5 Yumou Qiu, Jing Tao and **Xintao Xia**\*. *Inference of Heterogeneous Quantile Treatment Effects Using Observational Data with High-Dimensional Covariates.*
- 6 **Xintao Xia** and Yumou Qiu. *Multiply Robust Inference of Treatment Effects under High-dimensional Clustered Data.*(Submitted to Journal of the American Statistical Association)
- 7 **Xintao Xia**, Chen Li and Chunlin Li. *Learning a directed acyclic graph with additive heteroscedastic errors.*

## INVITED TALK

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- 2023 16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023)(*Berlin, Germany*)
- 2023 Center for Survey Statistics and Methodology (CSSM) Survey Working Group Seminar (*Ames, Iowa, USA*)

## TECHNICAL AND LABORATORY SKILLS

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**Numerical and Data Analysis:** R, Python  
**Programming Language:** Python, C, C++  
**Miscellaneous:**  $\text{\LaTeX}$ , Github