Lin Gui

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EDUCATION

• The University of Chicago, Chicago, USA Ph. D. in Statistics

Oct. 2020- Present

• The University of Chicago, Chicago, USA

Oct. 2018- Mar. 2020

M.S. in Statistics

• University of Science and Technology of China (USTC), Hefei, China

Sep. 2014- Jul. 2018

B.S. in Statistics

RESEARCH INTERESTS

Selective Inference, Causal Inference, and Machine Learning.

PUBLICATIONS

• Detecting Multiple Replicating Signals using Adaptive Filtering Procedures

Jingshu Wang, Lin Gui, Weijie J. Su, Chiara Sabatti, Art B. Owen The Annals of Statistics (accepted)

RESEARCH

- Causal Inference with Text Data
- Researched on discovering the causal relationship between the treatment and the outcome by detecting unobserved confounders from text data.
- Developed a method to recognize text representations satisfying unconfoundedness and mitigate the overlap issue in causal inference problems.
- A General Transformation Based Method For Global Test With Correlated Hypotheses
- Conducted empirical and theoretical studies and provided insights into the state-of-the-art Cauchy combination test for the global test with correlated hypotheses.
- Generalized the Cauchy method to a family of transformation methods, which complete the theoretical framework.
- Feature Augmentation in High-Dimensional Classification
- Solved the multi-classification problem for notorious high-dimensional data based on the original FANS method.
- Boosted the FANS with another classifier using well-chosen projections to realize both dimensional reduction and classification.

TALKS

• 2021 Joint Statistical Meetings, Speaker

Aug. 2021

- Detecting Multiple Replicating Signals Using Adaptive Filtering Procedures

CODING SKILLS

R, Python, Matlab; Parallel computing on computing clusters; Pytorch

HONORS & AWARDS

• Nominee, The 37th. Guo Moruo Scholarship (The highest honor at USTC)

2017

• Winner, Outstanding Student Scholarship, USTC

2016-2017

• Winner, China National Scholarship, USTC

2015