

Lin Gui

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EDUCATION

- Ph.D. in Statistics Oct. 2020- Present
The University of Chicago, Chicago, USA
- M.S. in Statistics Oct. 2018- Mar. 2020
The University of Chicago, Chicago, USA
- B.S. in Statistics Sep. 2014- Jul. 2018
University of Science and Technology of China (USTC), Hefei, China

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 — Apr. 2021 - Present**
We develop the algorithm to detect unobserved confounders using text data. The algorithm intends to split the text data into different parts based on their causal relationships and throw away useless information relevant to the treatment to mitigate the overlap issue.

- **A General Transformation Based Method For Global Test With Correlated Hypotheses — Oct. 2020 - Present**
We extend the Cauchy transformed method and develop a general transformation method for the global test with correlated hypotheses. We analyze the original Cauchy method empirically and theoretically and get insights into how it gains power compared to the baseline Bonferroni's method.

- **Feature Augmentation in High-Dimensional Classification — Jul. 2017 - Sep. 2017**
We extend the original method into multi-classification. We boost the FANS with another classifier using well-chosen projections to realize both.

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