Lin Gui

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EDUCATION

 Ph. D. in Statistics, The University of Chicago, Chicago, USA 	2020- Present
M.S. in Statistics, The University of Chicago, Chicago, USA	2018-2020
• B.S. in Statistics, University of Science and Technology of China, Hefei, China	2014-2018

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)

• Mitigating Overlap Violations in Causal Inference with Text Data

Lin Gui, Victor Veitch NeurIPS 2021 Workshops

RESEARCH

- Causal Estimation for Text Data with Apparent Overlap Violations
- Researched on estimating causal effect of some attribute of a text document on the outcome from observational data.
- Developed a method to recognize a text representation satisfying both unconfoundedness and mitigate the overlap issue in causal inference problems.
- Proposed a causal estimator with low bias and valid uncertainty quantification.
- 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 and its generalization method for the global test with correlated hypotheses.
- Generalized the generalized global testing method to a multiple testing procedure that can control the family-wise error rate (FWER) and proposed a shortcut for this closed testing procedure.
- Applied the method to genetic data to solve real-world problems.

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 3/th. Guo Moruo Scholarship (The highest honor at USTC)	2017
Winner, Outstanding Student Scholarship, USTC	2016-2017
Winner China National Scholarship USTC	2015