TIANMIN XIE

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EDUCATION

| University of Southern California | Aug 2022 - Present |
|---|---------------------|
| Ph.D. in Data Sciences and Operations (Statistics); Advisor: Prof. Matteo Sesia | |
| University of Cambridge | Oct 2021 - Jun 2022 |
| Master of Mathematics (Part III) | |
| University of Cambridge | Oct 2018 - Jun 2021 |
| Bachelor's Degree in Mathematics | |
| Tsinghua University | Sep 2018 - Oct 2018 |
| Bachelor's Degree (not completed) in Mathematics | |

RESEARCH INTERESTS

Conformal Inference, Causal inference, High-dimensional statistics

AWARDS

| Magdalene College Scholar | Nov 2019 |
|---|----------|
| College Prize for Mathematics | Jun~2019 |
| Silver Medal in China Mathematical Olympiad (CMO) | Nov 2017 |
| First place in Chinese High School Mathematics League (Shanghai Region) | Sep 2017 |

EXPERIENCE

Modern Changepoint Analysis

Nov 2021 - Apr 2022

Part III essay; advised by Prof. Richard J. Samworth

 $University\ of\ Cambridge$

· This essay would synthesise, and potentially contribute to, recent developments in the changepoint analysis. These include, but are not limited to, both offine (retrospective) and online (sequential) changepoint detection and estimation; high-dimensional problems; changes in mean, in slope (in regression problems) or more general nonparametric changes; multiple changes; missing data.

Statistical Inference on the Effect of Mass Vaccination

Jul 2021 - Sep 2021

Supervised by Dr Sergio Bacallado

University of Cambridge

· Stratified the population of people still susceptible to infection with the virus according to their vaccination status (unvaccinated/1 dose/2 doses). Incorporated estimates of community prevalence, by region and age group. Estimated a measure of ongoing transmission.

SKILLS

Programming R, MATLAB, Python Language Chinese, English