Han Yan

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EDUCATION

Sep. 2020 - Present

Sep. 2016 - Jun. 2020

Peking UniversityPh.D candidate in StatisticsAdvisor: Prof. Song Xi ChenSichuan UniversityB.S. in Mathematics

RESEARCH INTERESTS

- Statistical and machine learning theory
- Segmented and threshold regression
- Semiparametric and nonparametric estimation
- Transfer learning and causal inference

SELECTED AWARDS

• Outstanding Academic Scholarship, Peking University	2022,2023
• Presidential Scholarship, Peking University	2021
• National Scholarship, Peking University and Sichuan University	2021, 2019, 2018

PAPER

Publications

- Statistical Inference for Four-Regime Segmented Regression Models [pdf][supplement]
 Han Yan and Song Xi Chen The Annals of Statistics, to appear.
- 2. FAST: a Fused and Accurate Shrinkage Tree for Heterogeneous Treatment Effects Estimation [pdf]

Jia Gu, Caizhi Tang, **Han Yan**, Qing Cui, Longfei Li and Jun Zhou Neural Information Processing Systems (NeurIPS) 2023.

3. Better Strategies for Containing COVID-19 Pandemic: A Study of 25 Countries via a vSIADR Model [pdf]

Han Yan, Yuru Zhu, Jia Gu, Yaxuan Huang, Haoxuan Sun, Xinyu Zhang, Yuqing Wang, Yumou Qiu and Song Xi Chen Proceedings of the Royal Society A 477.2248 (2021): 20200440.

4. Comparing Containment Measures among Nations by Epidemiological Effects of COVID-19[pdf] Jia Gu, **Han Yan**, Yaxuan Huang, Yuru Zhu, Haoxuan Sun, Yumou Qiu, Song Xi Chen National Science Review 7.12 (2020): 1847-1851.

 Tracking Reproductivity of COVID-19 Epidemic in China with Varying Coefficient SIR Model (with discussion) [pdf]
 Haoxuan Sun, Yumou Qiu, Han Yan, Yaxuan Huang, Yuru Zhu, Jia Gu and Song Xi Chen Journal of Data Science 18.3 (2020): 455-472.

Manuscripts

- Transfer Learning with General Estimating Equations [pdf][supplement] Han Yan and Song Xi Chen Under review at the Annals of Statistics.
- Local estimation by fused machine learning with in-situ calibration Han Yan, Yumou Qiu and Song Xi Chen Working paper.

TALKS

- Statistical Inference for Segmented Regression Models
 - April 2023, The 12th National Probability and Statistics Conference of China.
 - August 2023, Hangzhou International Conference on Frontiers of Data Science.
- Transfer Learning with General Estimating Equations
 - June 2024, IMS-China International Conference on Statistics and Probability.
 - July 2024, the 2nd Joint Conference on Statistics and Data Science in China (JCSDS).

TEACHING ASSISTENT

• Large Sample Theory	Fall 2023
Postgraduate and undergraduate course by Prof. Song Xi Chen	
• Advanced Multivariate Statistical Analysis Postgraduate and undergraduate course by Prof. Song Xi Chen	Fall 2022
• Probability and Statistics Undergraduate course by Prof. Minya Xu	Spring 2022, 2021

RELEVANT SKILLS

- **Programming:** Proficient in R and Python
- Languages: English (fluent), Chinese (native)