JIAYI WANG

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EDUCATION

Texas A&M University *Aug 2017 - Present*
Ph.D. in Statistics (GPA: 4.00/4.00)
Advisor: Dr. Raymond K.W. Wong

Zhejiang University, China *Jul 2013 - Jun 2017*
B.S. in Statistics (GPA: 3.94/4.00)

RESEARCH INTERESTS

- Functional Data
- Low-rank Modeling
- Causal Inference
- Reinforcement Learning

PUBLICATIONS

- **Jiayi Wang**, Raymond K.W. Wong, Xiaojun Mao, and Kwun Chuen Gary Chan.(2021+). Matrix Completion with Model-free Weighting. *International Conference on Machine Learning (ICML).* Link
- **Jiayi Wang**, Raymond K.W. Wong, Xiaoke Zhang.(2021+). Low-rank Covariance Function Estimation for Multidimensional Functional Data. *Journal of the American Statistical Association.* Link

PREPRINTS

- **Jiayi Wang**, Raymond K.W. Wong, Shu Yang, and Kwun Chuen Gary Chan.(2021). Estimation of Partially Conditional Average Treatment Effect by Hybrid Kernel-covariate Balancing. *arXiv.* Link
- **Jiayi Wang**, Raymond K.W. Wong, Mikyoung Jun, Courtney Schumacher, R Saravanan, Chunmei Sun.(2021). Statistical and Machine Learning Methods Applied to the Prediction of Different Tropical Rainfall Types. *Earth and Space Science Open Archive (ESSOAr).* Link

TEACHING

Instructor

- Stat 201: Elementary Statistical Inference Summer 2021
  - An introductory course that focuses on critical analysis of real-life statistics on concepts over mathematical computation.

Teaching Assistant

- Stat 614: Probability for Statistics (graduate level) Fall 2021
- Stat 648: Apllied Stat & Data Analysis (graduate level) Spring 2021
- Stat 612: Theory of Linear Models (graduate level) Fall 2020, Fall 2021
- Stat 404: Statistical Computing Spring 2020

· Stat 211: Principles of Statistics I Fall 2017, Spring 2018

PROFESSIONAL EXPERIENCE

Internship

· Data Scientist Internship at Amazon, Modeling & Optimization Team Summer 2020

- Constructed a predictive model for the late deliveries via Catboost and neural network modeling.
- The predictive model is applied to the European delivery system to improve customer service.

Research

· Research Assistant for the Department of Atmospheric Sciences, TAMU June 2018 - present

- Explored multiple data compression methods, including PCA, auto-encoder, SDR to interpreate high-dimensional atmospheric variables.
- Explored various machine learning methods (Random Forest, lightGBM, and deep learning) to model tropical rain occurrence and rain amount.
- Compared statistical models (generalized linear models) and machine learning methods in characterizing the tail of rain amount density.

· Global Engagement in Academic Research (GEAR) at NC State University Summer 2016

- Developed time series models to analyze and predict the frequency of data breach.
- Developed a Bayesian linear model to evaluate the size of data breach.

PRESENTATIONS

· Poster Presentation Summer 2021
– International Conference on Machine Learning (ICML)

· Student Paper Award Talk Summer 2020
– Joint Statistical Meetings (JSM)

· Student Research Talk Spring 2021
– Stat Cafe at the Department of Statistics, TAMU

AWARDS AND HONORS

· Best Student's Paper Award 2020
– Nonparametric Section, American Statistical Association(ASA)

· Endeavour Cheung Kong Student Exchange Program Awards 2016
– University of Melbourne

· National Scholarship 2014
– Zhejiang University
– 2% winning rate

TECHNICAL STRENGTHS

Languages	Mandarin, English
Softwaresv& Tools	R, Python, C, Matlab, SQL, LaTeX