JIAYI WANG

(979) 587-4534 ◊ jiayiwang@tamu.edu https://jiayiwang1017.github.io

EDUCATION

Texas A&M UniversityAug 20Ph.D. in StatisticsAdvisor: Dr. Raymond K.W. Wong	7 - May 2022 (Expected) (GPA: 4.00/4.00)	
Zhejiang University, China B.S. in Statistics	Jul 2013 - Jun 2017 (GPA: 3.94/4.00)	
AWARDS AND HONORS		
· Emanuel Parzen Graduate Research Fellowship Award Texas $A & M$ University	2021	
 Best Student's Paper Award Section on Nonparametric Statistics, American Statistical Association (AS) 	2020 A)	
· Excellent Student Zhejiang University	2017	
· Endeavour Cheung Kong Student Exchange Program Awards University of Melbourne	2016	
 National Scholarship Zhejiang University (2% winning rate) 	2014	

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, and Xiaoke Zhang. (2021+). Low-rank Covariance Function Estimation for Multidimensional Functional Data. Journal of the American Statistical Association. Link
- Jiayi Wang, Raymond K.W. Wong, Mikyoung Jun, Courtney Schumacher, R Saravanan, and Chunmei Sun. (2021). Statistical and Machine Learning Methods Applied to the Prediction of Different Tropical Rainfall Types. *Environmental Research Communications*. Link

PREPRINTS

- · Jiayi Wang, Zhengling Qi, and Raymond K.W. Wong. (2021). Projected State-action Balancing Weights for Offline Reinforcement Learning. *Submitted*. Link
- 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. *Submitted.* Link

TEACHING

Instructor

Texas A&M University

- $\cdot\,$ Stat 201: Elementary Statistical Inference
 - Responsible for designing courses and exams, giving lectures, assigning grades and supervising the teaching assistant.

Teaching Assistant *Texas A&M University*

Texus AOM University

- $\cdot\,$ Stat 614: Probability for Statistics (graduate level)
- · Stat 648: Applied Stat & Data Analysis (graduate level)
- $\cdot\,$ Stat 612: Theory of Linear Models (graduate level)
- $\cdot\,$ Stat 404: Statistical Computing
- $\cdot\,$ Stat 211: Principles of Statistics I

PROFESSIONAL EXPERIENCE

Internship

• Data Scientist Internship Modeling & Optimization, Amazon

- 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 Department of Atmospheric Sciences, Texas A&M University

- Explored multiple data compression methods, including principal component analysis, autoencoder, sufficient dimension reduction to interpret 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)
 Department of Accounting, North Carolina State University

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

PRESENTATIONS

- Low-rank Covariance Function Estimation for Multidimensional Functional Data Causality inference & Missing data analysis group, North Carolina State University
- Matrix Completion with Model-free Weighting Poster presentation, International Conference on Machine Learning (ICML)

Summer 2020

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Summer 2016

Summer 2021

Fall 2022

Summer 2021

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Spring 2021 Fall 2020, Fall 2021

Fall 2017, Spring 2018

Fall 2021

Spring 2020

Jun 2018 - present

• Low-rank Covariance Function Estimation for Multidimensional Functional Data Stat Cafe at the Department of Statistics, Texas A&M University	Spring 2021
· Low-rank Covariance Function Estimation for Multidimensional Functional Data Student paper award talk, Joint Statistical Meetings (JSM)	Summer 2020
· Analysis of Characteristics of Data Breach GEAR poster presentation, North Carolina State University	Summer 2016

RESEARCH INTERESTS

- $\cdot\,$ Functional Data
- \cdot Low-rank Modeling
- $\cdot\,$ Causal Inference
- \cdot Reinforcement Learning

TECHNICAL STRENGTHS

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