

Kejin Wu

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Education

2021-now	Ph.D. in Statistics, University of California, San Diego
2019-2021	M.S. in Statistics, University of California, San Diego
2018	Exchange student, University of Queensland
2015-2019	B.S. in Mathematics and Applied Mathematics, Chongqing University

Research Interests

Sampling methods • Model-free bootstrap & Scalable subsampling
Time series analysis • Pertinent prediction inference
Machine learning • Deep generative models

Publications & Preprints

2024	Wu, K. and Politis, D.N., Scalable Subsampling Inference of Deep Neural Networks. (Paper Link)
2023	Ryan, O., Wu, K. and Jacobson, N.C., Exploratory Continuous-Time Modeling (expct): Extracting Dynamic Features from Irregularly Spaced Time Series. (Under working)
2023	Wu, K. , Gupta, R., Pierdzioch, C., Karmakar, S., Climate Risks and Stock Market Volatility Over a Century in an Emerging Market Economy: The Case of South Africa. (Paper Link)
2023	Wu, K. and Politis, D.N., Prediction Inference of Non-linear Parametric Autoregressive Models with Bootstrap, 2023. (Paper Link)
2023	Politis, D.N. and Wu, K. , Non-parametric Forward Bootstrap on Predicting Non-linear Time Series: Consistency, Pertinence and Debiasing, Stats 2023. (Paper Link)
2023	Wu, K. and Karmakar, S., A model-free approach to do long-term volatility forecasting and its variants, Financial Innovation 2023. (Paper Link)
2021	Wu, K. and Karmakar, S., Model-Free Time-Aggregated Predictions for Econometric Datasets, Forecasting 2021. (Paper Link)
2020	Wu, K. , McFadden, J.R. and Jacobson, N.C., Determining Timing Effects of Microrandomized Trials Using Intensive Longitudinal Data and the Differential Time-Varying Effect Model, 2020. (Paper Link)

Teaching Experience

	Associate Instructor , University of California, San Diego
2024 Spring	MATH 11: Calculus-Based Introductory Probability and Statistics
2023 Fall	MATH 11: Calculus-Based Introductory Probability and Statistics
2023 Summer	MATH 10A: Calculus I
2021 - 2024	Teaching Assistant , University of California, San Diego
	MATH 287A: Time Series Analysis
	MATH 170A: Introduction to Numerical Analysis: Linear Algebra
	MATH 180A: Introduction to Probability
	MATH 180B: Introduction to Stochastic Processes I
	MATH 180C: Introduction to Stochastic Processes II
	MATH 181A: Introduction to Mathematical Statistics I
	MATH 181B: Introduction to Mathematical Statistics II
	MATH 183: Statistical Methods
	MATH 189: Exploratory Data Analysis and Inference
	MATH 11: Calculus-Based Introductory Probability and Statistics

Presentations

2023	Extracting Dynamic Features from Irregularly Spaced Time Series , Society Ambulatory Assessment. (Online)(Slides)
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Services

Journal reviewers

Statistics and Computing; Mathematics and Computers in Simulation; Journal of Systems Science and Information

Fellowship, Honor & Award

2022	Libby Graduate Research Award
2021-2023	James B. Ax Graduate Fellowship
2019	Outstanding Student of Chongqing
2018	The Mathematical Contest in Modeling (MCM), COMAP, Meritorious Winner
2016	Mathematics Competition of Chinese College Students, First Prize Winner in Chongqing

R Package

expct: Estimate auto- and cross-correlations from irregularly spaced time series, with Prof. Ryan. ([Github](#))