

Dehao Dai

Department of Mathematics
University of California San Diego, CA, 92037

Email: ddai@ucsd.edu

EDUCATION

University of California San Diego

Ph.D. Candidate in Mathematics with Specification in Statistics
Advisor: Danna Zhang, Department of Mathematics;
Dimitris N Politis, Department of Halicioglu Data Science Institute

La Jolla, CA
2020 – 2025 (Expected)

Donghua University

B.S. in Mathematics

Shanghai, China
2016 – 2020

RESEARCH INTERESTS

High-dimensional Time Series, Neural Network, Nonlinear Time Series, Bootstrapping and Sub-sampling, Time-varying Network

PUBLICATIONS AND PREPRINTS

High-Dimensional Generalized Binary Time Series, with Yunyi Zhang, Dimitris Politis
Factor-augmented Regression for High Dimensional Time Series, with Danna Zhang

PRESENTATIONS

CFE-CMStatistics 2023

Berlin, Germany, Dec. 2023

TEACHING EXPERIENCES

University of California San Diego

Associate Instructor

MATH 10A: Calculus I

La Jolla, CA

Fall 2024

Teaching Assistant

MATH 281C: Mathematical Statistics

Spring 2024

MATH 287C: Advanced Time Series Analysis

Spring 2024

MATH 181A: Intro to Mathematical Statistics I

Winter 2024

MATH 181B: Intro to Mathematical Statistics II

Fall 2023, Spring 2023

MATH 183: Statistical Methods

Summer 2024, Summer 2023

MATH 181E: Mathematical Statistics - Time Series

Winter 2023

MATH 20B: Calculus/Science and Engineering

Fall 2022

ECE 285: Semidefinite and Sum-of-squares Optimization

Winter 2022

ECE 171A: Linear Control System Theory

Spring 2022

PROFESSIONAL SERVICE

Reviewer for Journals:

Journal of Biopharmaceutical Statistics, IEEE Transactions on Aerospace and Electronic Systems

HONORS AND AWARDS

Best Tutor Award in ECE department, UC San Diego

2023

James B. Ax Graduate Fellowship, UC San Diego

2022

Excellent Undergraduate Thesis, Donghua University (Top 1%)	2020
Excellent Graduate in Shanghai	2020
National Scholarship for Undergraduates	2020
3 rd Prize, National College Student Mathematics Competition	2018