

Curriculum Vitae

Ming Min

University of California, Santa Barbara
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Research Interests

Deep Learning, Applied Probability, Reinforcement Learning, Stochastic Control, Mean Field Games, Rough Paths and Signature

Education

University of California, Santa Barbara, Santa Barbara, California, United States

Ph.D. Candidate in **Statistics and Applied Probability** (expected June 2023)

- Advisor: Tomoyuki Ichiba
- GPA: 3.96/4.0, Qualify exams are all passed in September, 2019

Worcester Polytechnic Institute, Worcester, Massachusetts, USA

M.S. in **Financial Mathematics**, May 2018

- Advisor: Stephan Sturm
- Master Thesis: Numerical Methods for European Option Pricing with BSDEs
- GPA: 3.90/4.0

Beijing University of Posts & Telecommunications, Beijing, P.R. China

B.S. in **Business Administration**, June 2016

- GPA: 87/100

Research

Published Papers

"Signed Deep Fictitious Play for Mean Field Games with Common Noise" (with Ruimeng Hu)
International Conference on Machine Learning (ICML) 2021, accepted

Papers Under Review

"Convolutional Signature for Sequential Data", arXiv:2009.06719 with Tomoyuki Ichiba.

Ongoing Projects

“Stochastic Filtering in Directed Chains and Random Graphs”, with Tomoyuki Ichiba

“Adaptive Low Switching Cost Reinforcement Learning”, with Yuxiang Wang

Experience

Research Assistant: Stochastic Filtering in Directed Chains and Random Graphs

Teaching Assistant (UCSB):

- Undergraduate level: Probability and Statistics (PSTAT 120A, Fall '18, Fall '20), Risk Theory (PSTAT 173, Winter '19), Statistics (PSTAT 5A, Spring '19), SAS Base Programming (PSTAT 130, Summer '19, '20, '21), Applied Stochastic Processes (PSTAT 160A, Fall '19, Winter '20, Spring '20), Introduction to Mathematical Finance (PSTAT 170, Winter '21).
- Graduate level: Introduction to Probability Theory and Stochastic Processes (PSTAT 213 A& B & C , PhD qualify course, Winter & Spring '20, Fall '21), Advanced Mathematical Finance (PSTAT 176/276, Spring '21)

Teaching Assistant (WPI):

- Undergraduate level: Probability (MA 2631, Fall '17), Calculus II (MA 1022, Fall '17).
- Graduate level: Financial Mathematics I (MA 571, Fall '17), Financial Mathematics II (MA572, Spring '18), Computational Methods for Financial Mathematics (MA573, Spring '18).

Invited Talks and Presentations

ICERM *“Signed Deep Fictitious Play for Mean Field Games with Common Noise”*, Brown University, July 2021

DataSig Seminar Series, *“Applications of Signature in Machine Learning and Stochastic Analysis”* University of Oxford, November 2021

Relevant Skills

Programming: C/C++, Python, Java, R, SAS, \LaTeX

Tools & Platforms: TensorFlow/Keras, Pytorch, Git, Linux

Languages: Chinese (Native), English

Others: CFA level I

Academic Service

Reviewer

Digital Finance, 2021

Last updated: September 28, 2021