

Zhuang, Jirong

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Education

University of Macau

PhD. Student in Mathematics

- Um Macao PhD Scholarship Awarded

Aug. 2022 – Present

Macao SAR, China

University College London

Bachelor of Science in Mathematics

- First Class Honours Awarded

Aug. 2019 – Jun. 2022

London, United Kingdom

Nanshan Chinese International College

Cambridge International As & A level Programme

- Grade A* in Mathematics, Further Mathematics and Physics. Grade A in Chemistry

Aug. 2015 – Jun. 2019

Shenzhen, China

Experience

Teaching Assistant

Teaching Assistant of the following courses in University of Macau

- Introduction to Stochastic Process
- Applied Statistics
- Linear Statistical Analysis

Aug. 2022 – Present

Macao SAR, China

Publications

A Gaussian Process Based Method with Deep Kernel Learning for Pricing High-dimensional American Options. Computational Economics, 1-22.

Zhuang, J., Ding, D., Lu, W., Wu, X., & Yuan, G. (2025)

Diffusion model conditioning on Gaussian mixture model and negative Gaussian mixture gradient. Neurocomputing, 614, 128764.

Lu, W., Wu, X., Ding, D., Duan, J., Zhuang, J., & Yuan, G. (2025)

An effective one-iteration learning algorithm based on Gaussian mixture expansion for densities. Communications in Nonlinear Science and Numerical Simulation, 142, 108494.

Lu, W., Wu, X., Ding, D., Yuan, G., & Zhuang, J. (2025)