

HAOSHENG ZHOU

(332)-248-7535 | hzhou593@ucsb.edu | [Personal Website](#) | [LinkedIn Profile](#)

EDUCATION

University of California, Santa Barbara (UCSB), PSTAT Department

PhD in Applied Probability and Mathematical Statistics; GPA: 4.0/4.0

Present

New York University (NYU), CIMS (Courant Institute)

Master in Mathematics; GPA: 3.86/4.0

Sep 2020 – May 2022

Peking University (PKU), EECS Department

Bachelor in Data Science and Big Data Technology (IT Finance); GPA: 3.57/4.0

Sep 2016 – Jul 2020

THESIS AND PUBLICATIONS

Quantum Reinforcement Learning

Advisor: Jean-Pierre Fouque

Stochastic Differential Games on Graphs: Theoretical and Numerical Perspective

Advisor: Ruimeng Hu

Detecting Boolean Asymmetric Relationships with a Loop Counting Technique and its Implications for Analyzing Heterogeneity within Gene Expression Datasets

Advisor: Aaditya Rangan

Approximation Algorithms and PTAS of the Minimum Dominating Set and the 3-Path Vertex Cover Problem on Unit Disk Graph

Advisor: Jianhua Tu

ACADEMIC ACTIVITIES

Jan 2024 - Jun 2024: Organizer of UCSB student reinforcement learning seminar

Feb 2024: IMSI decision making and uncertainty workshop

Nov 2023: Research talk on UCSB CFMAR Seminar

May 2022 - Jun 2022: PIMS-CRM summer school in probability, UBC, Vancouver, Canada

May 2019 - Dec 2019: NYU Shanghai DURF project in percolation theory, [a website for particle system simulations](#)

HONORS AND AWARDS

2023: UCSB Abraham Wald Memorial Prize

2022: UCSB Amazon Fellowship

2022: Alibaba Global Mathematics Competition Top 0.5%

2021: NYU GSAS Students for the Pathways to the PhD Program

2018 & 2019: PKU Academic Excellence Award

2018: PKU Scholarship for Outstanding Undergraduates

TEACHING EXPERIENCES

TA experience in UCSB: PSTAT 213ABC (Year 2023), PSTAT 160A (Summer 2023), PSTAT 120A (Spring 2023), PSTAT 120B and PSTAT 8 (Winter 2023), PSTAT 170 (Fall 2022)

TA experience in NYU: MATH-UA 009 (Winter 2022)

VOLUNTEER

Oct 2015 - Nov 2015: Volunteer Teacher, Hong Village, Anhui Province, China