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
Master in Mathematics; **GPA: 3.86/4.0**   Sep 2020 – May 2022

Peking University (PKU), EECS
Bachelor in Data Science and Big Data Technology (IT Finance); **GPA: 3.57/4.0**   Sep 2016 – Jul 2020

THESIS AND PUBLICATIONS

Stochastic Differential Game on Graph: Theoretical and Numerical Perspective (on-going research project)
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

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

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 213A (Fall 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