HAOSHENG ZHOU

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

EDUCATION

University of California, Santa Barbara (UCSB), Department of Statistics and Applied Probability Santa Barbara, CA
PhD in Applied Probability and Mathematical Statistics; Present

New York University (NYU), Courant Institute of Mathematical Science New York, NY
Master in Mathematics; **GPA: 3.86/4.0** Sep 2020 – May 2022

- **Relevant Coursework**: Advanced courses in Probability, Statistics, Numerical Analysis, Optimization etc.

- Overall grade A in NYU Courant's Written Qualification Exam, August 2021

Peking University (PKU), School of Electrical Engineering and Computer Science Beijing, China
Bachelor in Data Science and Big Data Technology (IT Finance); **GPA: 3.57/4.0** Sep 2016 – Jul 2020

- **Relevant Coursework**: Fundamentals in Mathematics, Computer Science and Economics

HONORS AND AWARDS

- UCSB Amazon Fellowship 2022
- Alibaba Global Mathematics Competition, Top 0.5% 2022
- NYU GSAS Students for the Pathways to the PhD Program 2021
- PKU Academic Excellence Award 2018 & 2019
- PKU Scholarship for Outstanding Undergraduates 2018

THESIS AND PUBLICATIONS

Master's Thesis | NYU Sep 2021 - May 2022
Title: Detecting Boolean Asymmetric Relationships with a Loop Counting Technique and its Implications for Analyzing Heterogeneity within Gene Expression Datasets
Advisor: Aaditya Rangan, *Associate Professor of NYU Courant*

Bachelor's Thesis | PKU Jan 2020 – Jun 2020
Title: Approximation Algorithms and PTAS of the Minimum Dominating Set and the 3-Path Vertex Cover Problem on Unit Disk Graph
Advisor: Jianhua Tu, *Professor of Beijing Technology and Business University, Associate Professor of Beijing University of Chemical Technology (former position)*

ACADEMIC ACTIVITIES

- **Duncan Chair Actuarial Science Research Day** | UCSB Sep 2022
- **PIMS-CRM, Summer School in Probability** | UBC, Vancouver, Canada May 2022 - Jun 2022
- **DURF(Deans' Undergraduate Research Fund) Project in Percolation Theory** | NYU Shanghai
  May 2019 – Dec 2019

  Advisor: Leonardo T. Rolla, *Associate Professor of Argentina Research Council, Visiting Assistant Professor of NYU Shanghai (former position)*

– [Click here](#) to view a website we constructed for stochastic model simulations

TEACHING EXPERIENCES

- **TA of Probability and STatistics** (PSTAT 120B) | UCSB   Jan 2023 - Mar 2023
- **TA of Trans to Data Science, Probability and Statistics** (PSTAT 8) | UCSB   Jan 2023 - Mar 2023
- **TA of Intro to Math Finance** (PSTAT 170) | UCSB   Sep 2022 - Dec 2022
- **Recitation Leader (TA) of Algebra and Calculus** (MATH-UA 009) | NYU   Jan 2022 - May 2022

SKILLS

- **Programming Skills:** Matlab, Python, MySQL, Teradata, C++, C, Javascript, HTML, SPSS, R, STATA
- **Data Visualization Skills:** Tableau
- **SOA** (Society of Actuaries) Probability, Financial Mathematics Test (with grade 10/10)

OTHERS

- **Math Tutor for Chinese College Entrance Exam** | Shanghai, China   Jun 2020 - May 2021
- **Volunteer Teacher** | Hong Village, Anhui Province, China   Oct 2015 - Nov 2015