

# HAOSHENG ZHOU

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## EDUCATION

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**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

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**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

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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

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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

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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

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