Runzhe Yang

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⌂ *Homepage*

Educations

10/2024 – 10/2026 (Expected)	**Master of Science in Math (Stochastics & Finance)**, *Berlin Mathematical School, Berlin, German,* Advisor: *Prof. Dr. Peter Friz.*
3/2024 – 6/2024	**Visiting Internship Student for Research**, *Department of Mathematics, The Hong Kong University of Science and Technology, Hong Kong SAR,* Host: *Prof. Dr. Maximilian Nitzschner.*
9/2020 – 6/2024	**Bachelor of Science in Math (Probability & Statistics)**, *School of Mathematics and Statistics, Wuhan University, Wuhan, Hubei, China,* Overall GPA:3.77/4.0 (89.8/100) Thesis Title: Moderate Deviation of Gaussian Fluctuations for Coulomb Gases at Any Temperature, Advisor: *Prof. Dr. Fuqing Gao.*

Research Interests

My primary research interests lie in the area involving Probability and Analysis:

1. Stochastic Analysis and its Applications.
- Mathematical Finance
- Rough Analysis
- Stochastic Partial Differential Equations

2. Statistical Physics.
- Percolations
- Gaussian Free Fields and Interface Models
- Random Walks and Random Interlacements
- Schramm-Loewner Evolutions

Research Projects

5/2023 – 6/2024	**Lower Bound for Disconnection of Vacant Set in Loop Percolations**, Adviosr: *Prof. Dr. Maximilian Nitzschner*, The principal aim of this project is to derive asymptotic lower on the probability that in a certain model of random walk loops on the integer lattice, a macroscopic set is disconnected from infinity by the trace of the loops. We also investigate the large deviation for occupation time field of loop soup.

Academic Experiences

7/2023	**Summer School Series on Probability and Related Fields: Masterclass in Random Geometry**, *funded by Beijing International Center For Mathematical Research (BICMR), Peking University, Beijing, China.*

Honors and Awards

12/2021	First Prize, Rank 16$^{\text{th}}$, *the 13th China National Mathematics Competition for College Students, Wuhan*
5/2022	Finalist, Top 1‰, *the 4th Alibaba Global Mathematics Competition*
7/2022	Winner's Prize, Rank 19$^{\text{th}}$ Nationwide, *the 13th S.-T. Yau College Student Mathematics Contest, Statistics and Probability track (individual)*

11/2022	First Class, Top 3%, *WHU Outstanding Mathematics Student Scholarship, Wuhan University, 2021-2022 Academic Year*
3/2023	Third Prize, *Finals of the 13th China National Mathematics Competition for College Students, Shanghai*
1/2024	Laureate, *Scholariship for Research Internship Student at HKUST (15,000 HKD/Month), Spring Semester*
2/2024	Laureate, *Phase I Scholarship for Student at Berlin Mathematical School (1,000 Euros/Month), 2024 - 2026*
5/2024	Laureate, Top 20%-, *Outstanding Undergraduate Award, Wuhan University*
6/2024	Laureate, Top 3%-, *Outstanding Bachelor's Degree Thesis Award, Wuhan University*

Standardized Test

TOEFL iBT: 92 (R:28, L:22, S:18, W:24)

Technical Proficiencies

Computer	C/C++, R, LaTeX
Language	Mandarin/Cantonese (Native), English (Fluent), Germany (Beginer)