Runzhe Yang

Wasgenstraße 75, Berlin
Berlin, German, 14129
✆ *(+86) 150 1399 0366*
✉ *runzheyang2001@gmail.com*
⌂ *Homepage*

▬▬ Personal Details

Date of Birth	December 31$^{\text{st}}$, 2001
Citizenship	Chinese
Gender	Male

▬▬ Educations

10/2024 – Present
Phase I in Math (Stochastics & Finance), *Berlin Mathematical School, Berlin, 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*,
Thesis Title: Moderate Deviation of Gaussian Fluctuations for Coulomb Gases at Any Temperature,
Advisor: *Prof. Dr. Fuqing Gao*
Overall GPA:3.77/4.0 (89.8/100).

9/2017 – 6/2020
Abitur, *Huizhou No.1 Middle School, Huizhou, Guangdong, China*,
Final Grade: Top 0.13% Provincewide.

▬▬ 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   Merit Undergraduate, Top 20%, *Wuhan University*

6/2024   Laureate, Top 3%, *Outstanding Bachelor's Degree Thesis Award, Wuhan University*

Technical Proficiencies

Computer   C/C++, R, LaTeX

Language   Mandarin/Cantonese (Native), English (Fluent), Germany (Beginer)