Runzhe Yang

299 Luojia Hill Rd., Wuchang District
Wuhan, Hubei, China, 430061

(→8) (+86) 150 1399 0366

□ runzheyang2020@whu.edu.cn
□ Homepage

Educations

10/2024 - Master of Science in Stochastics and Mathematical Finance, Berlin Mathematical School, 10/2026 Berlin, German,

(Expected) Advisor: Prof. Dr. Peter K. Friz.

2/2024 - Visiting Internship Student for Research, Department of Mathematics, The Hong Kong 6/2024 University of Science and Technology, Hong Kong SAR,

(Expected) Host: Prof. Dr. Maximilian Nitzschner.

9/2020 - Bachelor of Science in Statistics, School of Mathematics and Statistics, Wuhan University, 6/2024 Wuhan, Hubei, China,

(Expected) Overall GPA:3.76/4.0 (89.6/100) (2020 Fall - 2024 Winter)

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. Statistical Physics.
- Percolations
- Gaussian Free Fields and Interface Models
- Random Walks and Random Interlacements
- Schramm-Loewner Evolutions
- 2. Stochastic Analysis and its Applications.
- Mathematical Finance
- Stochastic Partial Differential Equations

Research Projects

5/2023 - Lower Bound for Disconnection of Vacant Set in Loop Percolations,

Present 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.

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 16th, the 13th China National Mathematics Competition for College Students
- 5/2022 Finalist, Top 1‰, the 4th Alibaba Global Mathematics Competition
- 7/2022 Winner's Prize, Rank 19th Nationwide, the 13th S.-T. Yau College Student Mathematics Contest, Statistics and Probability track
- 11/2022 First Class, Top 3%, WHU Outstanding Mathematics Student Scholarship, 2021-2022 Academic Year
- 3/2023 Third Prize, Finals of the 13th China National Mathematics Competition for College Students

- 1/2024 Laureate, Scholariship for Research Internship Student at HKUST (15,000 HKD per Month), Spring Semester
- $2/2024 \quad \text{Laureate, Phase I Scholarship for Student at Berlin Mathematical School (1,000 Euros per Month),} \\ 2024 2026$

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)