Runzhe Yang

299 Luojia Hill Rd., Wuchang District
Wuhan, Hubei, China, 430061
✆ (+86) 150 1399 0366
✉ runzheyang2020@whu.edu.cn
🖱 Homepage

Educations

2/2024 – 6/2024 (Expected) — **Visiting Internship Student for Research**, *Department of Mathematics, The Hong Kong University of Science and Technology, Hong Kong SAR*,
Hosted by *Prof. Dr. Maximilian Nitzschner*.

9/2020 – 6/2024 (Expected) — **Bachelor of Science in Statistics**, *School of Mathematics and Statistics, Wuhan University, Wuhan, Hubei*,
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 – Present — **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.

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*

Standardized Test

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

Technical Proficiencies

Computer	C/C++, R, LaTeX
Language	Mandarin (Native), English (Fluent), Cantonese (Native but not familiar now)