

Junyeop Kim

Curriculum Vitae

Personal Information

- Email : juney1121@gmail.com
- Website : <https://junyeop.github.io>

Research Interests

- mathematical quantum field theory, specifically TQFT
- quantum field theoretical approach to many-particle systems

Academic Education

- **Elite Master Course Theoretical and Mathematical Physics** *Oct. 2025 –*
Ludwig-Maximilians-Universität München *and* Technische Universität München – Germany
- **Bachelor of Science in Physics and Mathematics** *Mar. 2020 – Feb. 2025*
Konkuk University, Seoul Campus – Republic of Korea
Graduated at the top.

Awards and Honors

- **Merit-based Scholarship** *2020 – 2023*
Konkuk University
- **Dean's List** *2020 – 2023*
Konkuk University, 5 times
- **Bronze Prize, 40th University Students Contest of Mathematics** *Jan. 2022*
Korean Mathematical Society

Extracurricular Activities

- **Visiting Student**
 - **Gwangju Institute of Science and Technology** *Feb. 2024*
Learned numerical methods widely used in condensed matter theory research, such as MCMC, PIMC, and VMC with the shadow wave function technique, and their applications to Ising model, quantum harmonic oscillators, and liquid helium-4.
- **Voluntary Mentorship**
 - **Konkuk University** *2022 – 2023*
As a mentor-student, I delivered mini-lectures on selected topics in mathematical physics during summer and winter breaks for students who struggled with following regular mathematical physics courses.

Industry

- **Daemyung Electronics Devices Co., Ltd** *Jan. 2025 – Oct. 2025*
Purchasing and Trading Department

Skills

Fortran, Python, L^AT_EX

Languages

native in Korean, fluent in English, basic in Russian