

# Young Yeon Kim

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🌐 <https://github.com/king-yy>

## INTERESTS

### The Emergence of Novel and Unusual States of Matter

- Emergent Phenomena such as Bose-Einstein Condensation, Superfluidity, and Superconductivity
- Strongly Correlated System such as BCS-BEC Crossover
- Topological Materials such as Topological Insulators

## EDUCATION

### Seoul National University

Mar. 2020 - Present

*Undergraduate Student*

Seoul, Korea

- Bachelor of Science in Physics, Minor in Mathematics
- Total GPA of 4.21 / 4.3 (4.0 / 4.0)

### Jeju Science High School

Mar. 2018 - Feb. 2020

*High School Student*

Jeju, Korea

- Second Year Early Graduation

## RESEARCH EXPERIENCE

### Quantum Gas Laboratory, Seoul National University

Jan. 2022 - Feb. 2023

*Laboratory Intern (Advisor: Professor Yong-il Shin)*

Seoul, Korea

- Constructed a tapered amplifier (TA) system for use in the  $^6\text{Li}$  laser cooling experiment. Conducted the following tasks.
  - Constructing a device to control the temperature of the TA chip
  - Aligning the optical components to adjust the seed laser beam
  - Making a PCB to operate the system
  - Designing a cage to protect the TA chip from moisture
- Theoretically calculated the intensity of various laser beams to confirm whether they can be used to produce a short-area Bose-Einstein condensate.

## HONORS AND AWARDS

**Kwanjeong Scholarship**, Kwanjeong Educational Foundation, 2022-Present

14<sup>th</sup> Place out of 791 Teams in the 2023 QHack Coding Competition, Xanadu, 2023

Dean's List, Seoul National University, 2020, 2021, 2022

Full Tuition Scholarship, Kwanak Corporation, 2021

Bronze Prize in the 13<sup>th</sup> International Earth Science Olympiad ITFI, IESO, 2019

## ACADEMIC ACTIVITIES

### The 5<sup>th</sup> Quantum Information Conference

Jun. 2022

Organized by Optical Society of Korea (OSK)

Seoul, Korea

- Attended as Student

### Atomic and Molecular Physics Division Winter School (2022)

Feb. 2022

Organized by Korean Physical Society (KPS)

Daejeon, Korea

- Attended (Virtually) as Student

## LANGUAGE PROFICIENCY

Fluent in **English** and Native in **Korean**

- IBT TOEFL: 107 (Reading: 29, Listening: 30, Speaking: 22, Writing: 26)

## COMPUTER SKILLS

Skilled in **Python** and **LaTeX**

- Can use Python and LaTeX to conduct scientific research.

**EXTRA-  
CURRICULAR  
ACTIVITIES**

**Seoul National University Quantum Research Team  
(SQRT)**

Aug. 2022 - Present

*Regular Member*

Seoul, Korea

- Involved in a team project on critical properties of the one-dimensional XY chains in the 2023 QHack Open Hackathon.
- Participated in a study group on physics for quantum computing.
- Attended some seminars about quantum computing.

**Seoul National University Taekwondo Team**

Jan. 2021 - Present

*Captain for 2022*

Seoul, Korea

- Led the team in 2022.
- Organized and directed almost all activities and events in 2022 such as participation in the national competition, joint trainings with other universities and professional athletes, and some social activities.
- Instructed taekwondo to the members for 2 hours every weekday in 2022.
- Participated in many competitions and received medals and prizes.
- Learned English through teaching taekwondo to foreign members in English.

**MILITARY  
SERVICE**

**1<sup>st</sup> Infantry Division 'FORWARD', Republic of Korea Army**

Apr. 2023 - Present

*Private First Class*

Paju, Korea

- AT-1K Raybolt (Hyeongung) Anti-Tank Guided Missile Gunner