Minjae Kwon

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Education

- **Princeton University** — *Princeton, NJ*
  Bachelor of Arts: Mathematics — *Sep 2021 - May 2027 (expected)*
  Cumulative GPA: 3.912/4.0, Major GPA: 4.0/4.0
  Relevant Coursework: *Advanced Graph Theory (MAT 477), Computational Complexity (COS 522/MAT 578), Topics In Combinatorics: The Probabilistic Method (MAT 478 / 577), Introduction to Programming Systems (COS 217).*

- **Seoul Science High School** — *Seoul, South Korea*
  High School Diploma — *Mar 2018 - Feb 2021*
  GPA: *4.27/4.3*
  Member of Student Council during second year of study

Selected Honors and Awards

- **Class of 1861 Special Prize** — *Feb 2022*
  - Awarded in recognition of my performance on the 2021 Putnam exam.

- **82nd William Lowell Putnam Competition** — *Feb 2022*
  - Ranked 18th (score 73/120) among 2,975 participants from 427 institutions

- **Princeton University Computer Science Contest (COSCON)** — *Nov 2021*
  - Placed 3rd as Undergraduate Team; 5th including Graduate Participants (93 teams participated)
  - Awarded Best Freshman/Sophomore Team Prize

- **Korean Presidential Science Scholarship** — *Aug 2021*
  - Awarded to twenty students nationwide studying abroad; Provides funding for four years.
  - Recognized for "high creativity and potential to thrive in the field of science and technology"

- **Awarded Silver Medal, 61st International Mathematical Olympiad (IMO)** — *Sep 2020*
  - Participated as part of the Korean team, placed 4th as a team

- **Awarded Gold Prize (1st place), 26th and 27th Samsung Humantech Paper Award** — *Jan 2020, Jan 2021*
  - Participated in one of the prestigious national research competitions open to high school students
  - Placed 1st in Math and Computing division among approximately 1900 total submitted papers
  - Paper title: "The bond percolation threshold for two-dimensional asymmetric lattices", "Throttling numbers on the cops and strong robbers game" (directed by high school faculty)

- **Talent Award of Korea** — *Oct 2020*
  - Awarded by the Deputy Prime Minister and Minister of Education of Korea to 50 high school students
  - Recognized for "the potential to become future leaders and have performed exemplary talents and outstanding meritorious service"

Skills Summary

- **Languages**: English, Korean
- **Programming Languages**: C/C++, Java, Python, LaTeX
- **Frameworks**: Keras, PyTorch, Tensorflow (Basic)
- **Soft Skills**: Quantitative Analysis, Leadership, Problem-Solving, Communication, Organization

Experiences

- **Operator** *Oct 2022 - Jul 2024 (expected)*
  Republic of Korea Air Force
  - Operator at Republic of Korea Air Force HQ

- **Princeton Qiskit Hackathon** *Oct 2021*
  - Won first place, invited to IBM Qiskit Global Hackathon
  - Developed *Quonk*, a chess-like game based on quantum circuits
  - Worked with visualization of quantum probabilities

- **Olympiad Coach** *Jan 2021 - Aug 2021*
  Korean Mathematical Society
  - Official teaching staff member of the Korean team for the 62^{nd} International Mathematical Olympiad
  - Developed unique teaching materials for gifted high school students
  - Organized and taught the Winter School hosted by the Korean Mathematical Society
  - Communicated with other staff members to develop unique and creative mock exams for team selection

- **Competitive Programming** *Mar 2019 - Current*
  - Competed in competitions hosted on Codeforces; Self-studied various algorithms and implementations