Sungwoo Park

M.S. Student in Uncertainty Quantification Lab @ SNU

✉ park.sw@snu.ac.kr ⌂ Seoul, South Korea 🔗 [in/cos18](https://linkedin.com/in/cos18) ⌨ github.com/cos18

Interests

How can we trust predictions from complex machine learning models? I'm interested in addressing this question at the intersection of **statistics and machine learning**, with focus on uncertainty quantification, distribution-free inference, and resampling-based approaches. My interests span conformal prediction, bootstrap methods, and other techniques that provide rigorous guarantees without restrictive assumptions.

Experience

Research Assistant *(Uncertainty Quantification Lab @ SNU)*   **Seoul, South Korea** *Jun 2025 - Present*
Advised by Prof. Won Chang

- Statistical analysis on TabPFN, a tabular data foundation model

Undergraduate Research Assistant *(Sungkyunkwan Univ.)*   **Seoul, South Korea** *Jul 2023, Feb 2024 - Jun 2024*
Advised by Prof. Young-Geun Choi

- Estimators for PU (Positive-Unlabeled) Learning and their consistency
- Converted teaching resources from R to Python

Trainee *(SW Maestro)*   **Seoul, South Korea** *Apr 2019 - Dec 2019*
10th Software Maestro trainee, developed yoga posture correction application 'Somathealth'

- Developed RestAPI video server based on Django
- Built ML pipeline

Education

Seoul National University   **Seoul, South Korea** *Mar 2025 - Present*
M.S. in Statistics

- Relevant Courses: Deep Learning: Statistical Perspective, Probability 1 & 2

Sungkyunkwan University   **Seoul, South Korea** *Mar 2018 - Feb 2025*
B.S. in Computer Education and Mathematics Education

- Relevant Courses: Probability and Statistics I, II, Multivariate Statistical Analysis, Artificial Intelligence, Linear Algebra, Analysis
- Obtained Public Teacher Certificates in Computer Science Education and Mathematics Education

Teaching

F32.102 Statistics   *2025 Summer, Winter*
Teaching Assistant

F32.102L Statistics Lab   *2025 Spring, Summer, Winter*
Teaching Assistant

Skills

- **Data Analysis & Visualization:** Pandas, Numpy, Matplotlib
- **Machine Learning & Deep Learning:** Pytorch, Scikit-learn, Tensorflow
- **Programming:** Python, R, C/C++, Javascript, AWS, Linux
- **Language:** Korean(Native), English(Intermediate High)

External Activities

Republic of Korea Army *Sep 2021 - Mar 2023*
Military Service

Yari-content-ko Organizer *Mozilla Developer Network* *Apr 2021 - May 2024*
Responsible for reviewing Korean translated documents on MDN

Member *42 Seoul* *Jan 2020 - Dec 2023*
Completed the 42 Seoul curriculum (part of École 42), an intensive peer-driven, project-based program providing practical software engineering training.

Head of Education *Likelion SKKU* *Mar 2018 - Feb 2020*
Instructed foundational computer science (networking, Linux) and the Django stack to non-majors, helping them rapidly implement project ideas.