# Gaon An.

white0234@snu.ac.kr
https://dssrgu.github.io

## Education

Sep 2019 – Present — **M.S./Ph.D. in Computer Science, Seoul National University**.

Mar 2013 – Aug 2019 — **B.A. in Economics, Seoul National University**.
*Summa Cum Laude*
Minor in Computer science.

## Experience

Jun 2022 – Sep 2022,
Dec 2023 – Present — **Head of Research** DeepMetrics.
Working on developing an automatic mechanical ventilator controller via reinforcement learning.

Dec 2017 – Feb 2018 — **Research Intern,** Optimization and Financial engineering lab, SNU.
Worked on implementing and optimizing genetic algorithms.

## Publications

1. **Gaon An***, Junhyeok Lee*, Xingdong Zuo, Norio Kosaka, Kyung-Min Kim, and Hyun Oh Song
*Direct Preference-based Policy Optimization without Reward Modeling*
NeurIPS 2023.

2. Seungyong Moon*, **Gaon An***, and Hyun Oh Song
*Preemptive Image Robustification for Protecting Users against Man-in-the-Middle Adversarial Attacks*
AAAI 2022.

3. Yeonwoo Jeong*, Deokjae Lee*, **Gaon An**, Changyong Son, and Hyun Oh Song
*Optimal channel selection with discrete QCQP*
AISTATS 2022.

4. **Gaon An***, Seungyong Moon*, Jang-Hyun Kim, and Hyun Oh Song
*Uncertainty-Based Offline Reinforcement Learning with Diversified Q-Ensemble*
NeurIPS 2021.

5. Seungyong Moon*, **Gaon An***, and Hyun Oh Song
*Parsimonious Black-Box Adversarial Attacks via Efficient Combinatorial Optimization*
ICML 2019.

## Miscellaneous Experience

### Academic Services

**Conference reviewer** — ICML (2021-), NeurIPS (2021-), ICLR (2022-)

**Program Chair Committee** — NeurIPS Workshop on ImageNet Past, Present, Future (2021)

### Teaching

**Teaching Assistant** — Engineering Mathematics 2 (2020)

## Miscellaneous Experience (continued)

- Introduction to Deep Learning (2019, 2022)

### Talks

**SNU AI Retreat**
- Direct Preference-based Policy Optimization without Reward Modeling, 2023.
- Uncertainty-Based Offline Reinforcement Learning with Diversified Q-Ensemble, 2022.

**LG Tech Talk**
- Uncertainty-Based Offline Reinforcement Learning with Diversified Q-Ensemble, 2022.

**CJ Logistics Tech Talk**
- Uncertainty-Based Offline Reinforcement Learning with Diversified Q-Ensemble, 2022.