# SIMO RYU

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Blog : `fb.com/MLPaperFetchingCat`  Github : `github.com/cloneofsimo`

## HONORS AND AWARDS

**2021 Google HashCode Qualification Round**                                      Spring 2021
4nd Place in South Korea (55th Place WorldWide), Team *boots jeon cats*

**2020 Google HashCode Qualification Round**                                      Spring 2020
2nd Place in South Korea (61th Place WorldWide), Team *boots jeon cats*

**2021 MAIC Sleep AI Challenge**                                                  Spring 2021
8th Place, Team *BOREL*

**ICPC Seoul Regional**                                                           Winter 2020
17th Place, Team ——*Amoeba*——

**ICPC Seoul Regional**                                                           Winter 2021
28th Place, Team *Cat Is All You Need*

**2019 University Students Contest of Mathematics (2nd Track)**                    Fall 2019
Silver Award

**Samsung AI Challenge for Scientific Discovery**                                 Fall 2021
12th Place

**Graduation Thesis on Mathematics (Seoul Science High School)**                 Winter 2018
Grand Prize

**Research Task on Mathematics (Seoul Science High School)**                     Winter 2017
Grand Prize, Team participation

**2019 KCPC (1st Track)**                                                         Winter 2019
Excellence award

**31th Korean Mathematical Olympiad**                                             Winter 2017
Silver Prize

**30th Korean Mathematical Olympiad**                                             Winter 2016
Gold Prize

**제 2회 2020 금융 빅데이터 페스티벌, 보험금 분야**                                   Fall 2020
7th Place on Public Scoreboard, Team *Financially Independent Cat*

## EDUCATION

**Korea University**                                                   March 2019 – Current
Double Major : Cyber Defense & Business School
GPA : 3.95/4.5                                                                 Seoul, Korea

**Seoul Science High School**                                     March 2016 – December 2018
                                                                              Seoul, Korea

## WORK EXPERIENCE

**Research Intern**                                              January 2020 – December 2020
Korea University Department of Information Security, SPAI Lab                    Seoul, Korea

- Worked as research intern. Research on graph based mutual information model and sentiment analysis of major cryptocurrencies.
- Skillset : Spectral Graph theory, Information theory, Pytorch, Huggingface, networkx

**Research Intern**                                                 March 2021 – June 2021
Korea University Department of Information Security, Computer Systems Security Lab    Seoul, Korea

- Worked as research intern for binary code similarity project. Researched on code clone detection in malware
- Skillset : Python

**Machine Learning Engineer** April 2021 – Current
Corca AI Seoul, Korea

- Developed and deployed mixture of Deep learning and optimization algorithm for retail supply prediction and promotion optimization. Created over 5% increase in gross profit
- Skillset : Time series forecasting, Neural ODE, Convex optimization (Mixed Integer Programming), Pytorch, GCP

## SKILLS

**Languages**: Korean(Native), English (Fluent, TOEIC score 900)
**Programming**: Python(Intermediate), C/C++(Intermediate), JS(Novice), Java(Novice)
**ML Libraries**: Pytorch, LightGBM, Matplotlib, Pandas, Numpy, Huggingface, etc.