



Yonghoon Dong

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Education

KAIST

PH.D. INTEGRATED STUDENT AT KIM JAECHUL GRADUATE SCHOOL OF AI (GPA: 4.15/4.3)

Advisor : Jinwoo Shin

Seoul, South Korea

Sep. 2025 - Continue

Yonsei University

B.S. IN COMPUTER SCIENCE AND MATHEMATICS (GPA : 4.16/4.3, RANK : 3/166)

Seoul, South Korea

Mar. 2020 - Aug. 2025

Uppsala University

EXCHANGE STUDENT

Uppsala, Sweden

Aug. 2023 - Jan. 2024

Publication

Trust Region Q Adjoint Matching

YONGHOON DONG, KYUNGMIN LEE, CHANGYEON KIM, JAEHYUK KIM, JINWOO SHIN

[arXiv] | [Website] | [Code]

Preprint

May. 2026

RLDX-1 Technical Report

DONGYOUNG KIM*, HUIWON JANG*, MYUNGKYU KOO†, SUHYEOK JANG†, TAEYOUNG KIM†, YONGHOON DONG, JINWOO SHIN

*Project Lead; †Research Lead.

[arXiv] | [Website] | [Code]

Technical Report

May. 2026

Experience

Research Intern, RL Team

INTERN @ RLWRLD

- Researching stable RL post-training for flow-based vision-language-action (VLA) models.
- Core contributor to RLDX-1, a general-purpose robotic policy for dexterous manipulation; supported training of RECAP, the RL post-training framework that decouples critic learning from policy optimization.

Seoul, South Korea

Nov. 2025 - Present

Student Intern (OptiML) advised by Chulhee Yun

INTERN @ KAIST

- Analyze the effect of the momentum term in the Polyak Heavy Ball method through a lower-bound analysis.

Seoul, South Korea

Aug. 2024 - Feb. 2025

Honors & Awards

2025	Recipient of the Merit-based Excellence Scholarship , Pyeongtaek City Hometown Scholarship Program	Pyeongtaek, Korea
2024	Honors , 2024 Fall, Yonsei University	Seoul, South Korea
2024	2nd Prize & People's Choice Award , Software Capstone Design, Yonsei University	Seoul, South Korea
2022	Highest Honors , 2022 Fall, Yonsei University	Seoul, South Korea
2022	Samsung SW Expert Academy Certificate , Samsung	Seoul, South Korea
2021	9th Award , SUAPC 2021 Winter	Seoul, South Korea
2021	4th Prize , SUAPC 2021 Summer	Seoul, South Korea
2020	High Honors , 2020 Spring, Yonsei University	Seoul, South Korea
2020	4th Prize , SUAPC 2020 Summer	Seoul, South Korea

Teaching

Tutoring : Machine Learning

Seoul, South Korea

TUTOR

Mar. - Jun., 2024 & 2025

- Explain concepts in machine learning (e.g. GDA, Naive Bayes, VAE, GMM)
- Lecture note link : <https://github.com/yonghdong/machine-learning>
- Lecture video link : Youtube link

Tutoring : Linear Algebra

Seoul, South Korea

TUTOR

Jul. 2023 - Aug. 2023

- Explain fundamental concepts in linear algebra (e.g. Fundamental theorem of linear algebra, SVD)
- Lecture note link : <https://drive.google.com/file/d/17shDOGtwA-JjUU9Y6fw6-YihHzis6twH/view?usp=sharing>

Tutoring : Data Structure

Seoul, South Korea

TUTOR

Sep. 2022 - Dec. 2022

- Explain fundamental data structures (e.g. graph, tree, array)
- Explain some basic algorithms (e.g. sorting algorithm, graph searching algorithm)

Skills

Programming Python, C++, LaTeX

Languages Korean, English

Relevant Coursework

Computer Science Theory and Practice of Deep Learning, Machine Learning, Optimization, Algorithm Analysis, Data structures

Mathematics Real analysis, Measure theory, Measure theoretic probability, Stochastic process (Martingale, SDE)[Note], ODE, PDE

Statistics Mathematical Statistics 1

References

Jinwoo Shin

ICT ENDOWED CHAIR PROFESSOR, KIM JAECHUL GRADUATE SCHOOL OF AI, KAIST

Chulhee Yun

EWON ASSISTANT PROFESSOR, KIM JAECHUL GRADUATE SCHOOL OF AI, KAIST