

# YOUNGDO LEE

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## RESEARCH INTERESTS

My ultimate research goal is to contribute to the development of Artificial General Intelligence (AGI) capable of learning from minimal data and solving complex, real-world tasks that remain challenging for current AI models. Specifically, my recent research interests focus on the following areas:

### Scaling Deep Reinforcement Learning

- Designing efficient RL architectures that can scale with larger networks and increased computational resources.
- Related: [SimbaV2](#)

### Generative Modeling with Limited Data

- Designing algorithms that can learn/adapt generative model effectively in low-data regimes (e.g. Personalization)
- Related: [Extracting Any Concepts](#)

Drawing from my experience in these domains, I aim to further advance data-efficient, generalizable learning approaches and apply them to high-impact fields such as robotics and real-world embodied AI.

## EDUCATION

**Korea Advanced Institute of Science and Technology (KAIST)** Sep. 2024 - Present

- M.S. in AI (GPA: 4.24/4.3) Advisor: [Jaegul Choo](#)

**Korea Advanced Institute of Science and Technology (KAIST)** Mar. 2020 - Aug. 2024

- B.S. in Computer Science and Mathematics (*Summa Cum Laude*, GPA: 4.03/4.3)

## PUBLICATIONS & PREPRINTS

**SimbaV2: Hyperspherical Normalization for Scalable Deep Reinforcement Learning** Under Review

Hojoon Lee\*, **Youngdo Lee\***, Takuma Seno, Donghu Kim, Peter Stone, Jaegul Choo

[arXiv](#) / [project page](#) / [code](#)

**Extracting Any Concepts from an Image for Controllable Text-to-Image Generation** Under Review

Seunghwan Choi, Jooyeol Yun, **Youngdo Lee**, Jaegul Choo

[paper](#)

**Abstraction and Reasoning Challenge with Decision Transformer** KCC, ICMLW 2023

Jaehyun Park, Jaegyun Im, **Youngdo Lee**, Donghyeon Shin, Sejin Kim, Sundong Kim

[paper](#) / [arXiv \(ICMLW version\)](#)

## WORK EXPERIENCE

**Institute of Basic Science (IBS)** Dec. 2022 - Jun 2023

[Abstraction and Reasoning Challenge](#) via Imitation Learning with Decision Transformer *Daejeon, Korea*

- Mentor: [Meeyoung Cha](#) / [Sundong Kim](#)

**NCSoft Speech AI Lab** Jul. 2022 - Aug. 2022

Deep Learning-based Melody Generation *Seongnam, Korea*

## AWARD & HONORS

**KAIST** [Dean's List Award](#) Fall 2022, Spring 2023

**KAIST** [KAIST Presidential Fellowship \(KPF\)](#) Mar. 2020 - Aug. 2024