

Taewon Park

GRADUATE STUDENT · AI

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“Try again, fail again, fail better.”

Research Interest

My research interest is developing reusable, disentangled, and **compositional modular representations** for **compressive memory**-based AI architecture. Therefore, I am currently focusing on the following topics:

- *Compressive Memory, or Memory Augmented Neural Networks*
- *Structured Representation Learning*
- *Compositional Generalization, or Systematic Generalization*

Education

KNU(Kyungpook National University)

INTEGRATED M.S & PH. D.

- Advisor: **Prof. Minho Lee**
- GPA: 4.44/4.50

Daegu, S.Korea

Mar. 2019 - PRESENT

KNU(Kyungpook National University)

B.S. IN ELECTRONICS ENGINEERING

- GPA: 4.30/4.50

Daegu, S.Korea

Mar. 2015 - Feb. 2019

Experience

CMU(Carnegie Mellon University)

VISITING SCHOLAR @ SCHOOL OF COMPUTER SCIENCE

- Sponsored by AI-related project-focused intensive program fully funded by the Korean Government

Pittsburgh, PA, USA

Aug. 2022 - Feb. 2023

NAIST(Nara Institute of Science and Technology)

RESEARCH INTERNSHIP @ GRADUATE SCHOOL OF INFORMATION SCIENCE

- Advisor: **Prof. Kazushi Ikeda**

Nara, Japan

Jan. 2020 - Feb. 2020

Publications

PREPRINT

Discrete Dictionary-based Decomposition Layer for Structured Representation Learning

TAEWON PARK, HYUN-CHUL KIM, MINHO LEE

Preprint

2024

CONFERENCE

Attention-based Iterative Decomposition for Tensor Product Representations

TAEWON PARK, INCHUL CHOI, MINHO LEE

- [Paper] [Github]

ICLR

2024

Learning Associative Reasoning Towards Systematicity using Modular Networks

JUN-HYUN BAE*, TAEWON PARK*, MINHO LEE (*: equal contribution)

- [Paper]

ICONIP

2022

4W1H Keyword Extraction-based Summarization Model

SEUNGYEON LEE, TAEWON PARK, MINHO LEE

• [Paper]

ICEIC

2021

JOURNAL

Distributed associative memory network with memory refreshing loss

TAEWON PARK*, INCHUL CHOI*, MINHO LEE (*: equal contribution)

• [Paper] [Github]

Neural Networks

2021

Project

Interpretation of Korea Traditional Records via Deep Learning

FUNDED BY NRF(NATIONAL RESEARCH FOUNDATION OF KOREA)

Daegu, S.Korea

Mar. 2023 - PRESENT

Knowledge-augmented AI Agent Through Conversations

FUNDED BY NRF(NATIONAL RESEARCH FOUNDATION OF KOREA)

Daegu, S.Korea

Mar. 2023 - Sep. 2023

Context Awareness-based Automatic Report Generation.

[PROJECT MANAGER] FUNDED BY ADD(AGENCY FOR DEFENSE DEVELOPMENT)

Daegu, S.Korea

Dec. 2019 - Jul. 2022

Context Awareness-based Interactive AI Development.

FUNDED BY IITP(INSTITUTE FOR INFORMATION & COMMUNICATION TECHNOLOGY PLANNING & EVALUATION)

Daegu, S.Korea

Mar. 2019 - Dec. 2020

Honors & Awards

2021 **Scholarship**, President's Excellence Award in Brain Korea Forum, KNU

S.Korea

2019 **Scholarship**, Scholarship for Academic Excellence in Electronics Engineering Department, KNU

S.Korea

2017-2019 **Scholarship**, National Science & Technology Scholarship, Ministry of Science and ICT

S.Korea

Skills

- Programming

Languages

Sport
- Python, C/C++, LaTeX, PyTorch, TensorFlow

Korean (native), English (intermediate), Japanese (beginner)

Squash, Basketball