Taewon **Park**

GRADUATE STUDENT · AI

80, Daehak-ro, Buk-gu, Daegu, Rep. of KOREA

□ (+82) 10-9766-4570 | ✉ ptw7998@gmail.com | ⌂ https://taewonpark.github.io/ | ⧉ taewonpark | in taewon-park-755394169

"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) *Daegu, S.Korea*
INTEGRATED M.S & PH. D. *Mar. 2019 - PRESENT*
- Advisor: **Prof. Minho Lee**
- GPA: 4.44/4.50

KNU(Kyungpook National University) *Daegu, S.Korea*
B.S. IN ELECTRONICS ENGINEERING *Mar. 2015 - Feb. 2019*
- GPA: 4.30/4.50

Experience

CMU(Carnegie Mellon University) *Pittsburgh, PA, USA*
VISITING SCHOLAR @ SCHOOL OF COMPUTER SCIENCE *Aug. 2022 - Feb. 2023*
- Sponsored by AI-related project-focused intensive program fully funded by the Korean Government

NAIST(Nara Institute of Science and Technology) *Nara, Japan*
RESEARCH INTERNSHIP @ GRADUATE SCHOOL OF INFORMATION SCIENCE *Jan. 2020 - Feb. 2020*
- Advisor: **Prof. Kazushi Ikeda**

Publications

PREPRINT

EPT: Explosive Prompt Tuning For Parameter-Efficient with Large Norm Prompt *Preprint*
WON YONG JO, TAEWON PARK, MINHO LEE, HO-YOUNG JUNG *2024*

Discrete Dictionary-based Decomposition Layer for Structured Representation Learning *Preprint*
TAEWON PARK, HYUN-CHUL KIM, MINHO LEE *2024*
- [Paper]

CONFERENCE

Attention-based Iterative Decomposition for Tensor Product Representations *ICLR*
TAEWON PARK, INCHUL CHOI, MINHO LEE *2024*
- [Paper] [Github]

Learning Associative Reasoning Towards Systematicity using Modular Networks   *ICONIP*

Jun-Hyun Bae*, Taewon Park*, Minho Lee (∗: *equal contribution*)   *2022*

- [Paper]

4W1H Keyword Extraction-based Summarization Model   *ICEIC*

Seungyeon Lee, Taewon Park, Minho Lee   *2021*

- [Paper]

Journal

Distributed associative memory network with memory refreshing loss   *Neural Networks*

Taewon Park*, Inchul Choi*, Minho Lee (∗: *equal contribution*)   *2021*

- [Paper] [Github]

Project

Interpretation of Korea Traditional Records via Deep Learning   *Daegu, S.Korea*

funded by NRF(National Research Foundation of Korea)   *Mar. 2023 - PRESENT*

Knowledge-augmented AI Agent Through Conversations   *Daegu, S.Korea*

funded by NRF(National Research Foundation of Korea)   *Mar. 2023 - Sep. 2023*

Context Awareness-based Automatic Report Generation.   *Daegu, S.Korea*

[Project Manager] funded by ADD(Agency for Defense Development)   *Dec. 2019 - Jul. 2022*

Context Awareness-based Interactive AI Development.   *Daegu, S.Korea*

funded by IITP(Institute for Information & communication Technology Planning & evaluation)   *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   Python, C/C++, LaTeX, PyTorch, TensorFlow

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

Sport   Squash, Basketball