

# Taewon Park

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## CONTACT INFORMATION

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## RESEARCH INTEREST

I am currently focused on advancing the efficiency and generalization of sequence models. My work involves memory-augmented neural architectures and modular representation learning for AI, aiming to enable capabilities such as:

- Long-context reasoning,
- Systematic or compositional generalization.

## EDUCATION

**Kyungpook National University (KNU)**, Daegu, Republic of Korea

**Integrated M.S. and Ph.D.** in Artificial Intelligence Mar. 2019 – Present

Advisor: Prof. Hyun-Chul Kim and Prof. Minho Lee

GPA: 4.44/4.5

**B.S.** in Electronics Engineering Mar. 2015 – Feb. 2019

GPA: 4.3/4.5

## EXPERIENCE

**Canegie Mellon University (CMU)**, Pittsburgh, PA, USA

**Visiting Scholar** in School of Computer Science Aug. 2022 – Feb. 2023

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

**Nara Institute of Science and Technolog (NAIST)**, Nara, Japan

**Research Internship** in Graduate School of Information Science Jan. 2020 – Feb. 2020

Advisor: Prof. Kazushi Ikeda

## CONFERENCE PUBLICATIONS

[C4] **Discrete Dictionary-based Decomposition Layer for Structured Representation Learning**

Taewon Park, Hyun-Chul Kim, Minho Lee

Conference on Neural Information Processing Systems (**NeurIPS**), 2024.

[C3] **Attention-based Iterative Decomposition for Tensor Product Representations**

Taewon Park, Inchul Choi, Minho Lee

International Conference on Learning Representations (**ICLR**), 2024.

[C2] **Learning Associative Reasoning Towards Systematicity using Modular Networks**

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

International Conference on Neural Information Processing (**ICONIP**), 2022.

[C1] **4W1H Keyword Extraction-based Summarization Model**

Seungyeon Lee, Taewon Park, Minho Lee

International Conference on Electronics, Information, and Communication (**ICEIC**), 2021.

JOURNAL  
PUBLICATIONS

[J1] **Distributed associative memory network with memory refreshing loss**  
**Taewon Park\***, Inchul Choi\*, Minhoo Lee (\*: *equal contribution*)  
*Neural Networks*, Vol. 144, pp. 33–48, Dec 2021. (2020-JCR-IF: 8.050, 25/273,  
Top 8.9%).

PREPRINT  
PUBLICATIONS

[P1] **EPT: Explosive Prompt Tuning For Parameter-Efficient with Large Norm  
Prompt**  
Won Yong Jo, **Taewon Park**, Minhoo Lee, Ho-Young Jung  
**Preprint**, 2024.

RESEARCH  
PROJECT

**Interpretation of Korea Traditional Records via Deep Learning**  
funded by **NRF** (National Research Foundation of Korea) Mar. 2023 – Aug. 2024

**Knowledge-augmented AI Agent Through Conversations**  
funded by **NRF** (National Research Foundation of Korea) Mar. 2023 – Sep. 2023

**Context Awareness-based Automatic Report Generation** [Project Manager]  
funded by **ADD** (Agency for Defense Development) Dec. 2019 – Jul. 2022

**Context Awareness-based Interactive AI Development**  
funded by **IITP** (Institute for Information & communication Technology Planning & evaluation) Mar. 2019 – Dec. 2020

HONORS AND  
AWARDS

- KNU President’s Excellence Award in Brain Korea Forum 2021
- Academic Excellence Scholarship in Electronics Engineering Department 2019
- National Science & Technology Scholarship 2017 – 2018

REFERENCES

**Dr. Hyun-Chul Kim**  
Assistant Professor, Dept. of Artificial Intelligence, Kyungpook National University  
✉ Email: hyunchul.kim@knu.ac.kr

**Dr. Minhoo Lee**  
Professor, Dept. of Artificial Intelligence, Kyungpook National University  
✉ Email: minholee@gmail.com