



# TAEYOON KWON

[✎ connoriginal.github.io](https://github.com/connoriginal)

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## RESEARCH INTEREST

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### AI Agents, Foundation Models

(M)LLM Agents (Physical and Digital), RL for Long-horizon Tasks, Code LLMs, AI for Science

## EDUCATION

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**Yonsei University | Advisor: Jinyoung Yeo**

Sep. 2023 - Present

*M.S. in Artificial Intelligence*

**Hanyang University (ERICA)**

Mar. 2017 - Feb. 2023

*B.S. in Computer Science, Summa Cum Laude*

*GPA: 3.75/4.0*

**Republic of Korea Army**

Jan. 2018 - Sep. 2019

*Seargent*

## PUBLICATIONS & PREPRINTS

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(\* Equal contribution)

### PREPRINT

**[P1] Embodied Agents Meet Personalization: Investigating Challenges and Solutions Through the Lens of Memory Utilization [paper][webpage]**

Taeyoon Kwon\*, Dongwook Choi\*, Hyojun Kim, Sunghwan Kim, Seungjun Moon, Beong-woo Kwak, Kuan-Hao Huang, Jinyoung Yeo

Arxiv preprint. 2025

### REFEREED CONFERENCE PAPER

**[C9] Web-Shepherd: Advancing PRMs for Reinforcing Web Agents [paper]**

Hyunjoo Chae\*, Sunghwan Kim\*, Junhee Cho\*, ..., Taeyoon Kwon, ..., Jinyoung Yeo

Neurips 2025 ([Spotlight](#))

**[C8] Designing Memory-Augmented AR Agents for Spatiotemporal Reasoning in Personalized Task Assistance [paper]**

Dongwook Choi, Taeyoon Kwon, Dongil Yang, Hyojun Kim, Jinyoung Yeo

XRMemory Workshop, IEEE ISMAR 2025

**[C7] Rethinking Reward Model Evaluation Through the Lens of Reward Overoptimization [paper]**

Sunghwan Kim\*, Dongjin Kang\*, Taeyoon Kwon, Hyunjoo Chae, Jungsoo Won, Dongha Lee, Jinyoung Yeo

ACL 2025 ([Oral](#))

**[C6] Towards Lifelong Dialogue Agents via Timeline-based Memory Management [paper]**

Kai Tzu-iunn Ong\*, Namyoun Kim\*, Minju Gwak, Hyunjoo Chae, Taeyoon Kwon, Yohan Jo, Seung-won Hwang, Dongha Lee, Jinyoung Yeo

NAACL 2025

**[C5] COFFEE-GYM: An Environment for Evaluating and Improving Natural Language Feedback on Erroneous Code [paper][demo]**

Hyunjoo Chae\*, Taeyoon Kwon\*, Seungjun Moon\*, Yongho Song, Dongjin Kang, Kai Tzu-iunn Ong, Beong-woo Kwak, Seonghyeon Bae, Seung-won Hwang, Jinyoung Yeo

EMNLP 2024

**[C4] Language Models as Compilers: Simulating Pseudocode Execution Improves Algorithmic Reasoning in Language Models [paper]**

Hyunjoo Chae, Yeonghyeon Kim, Seungone Kim, Kai Tzu-iunn Ong, Beong-woo Kwak, Moohyeon Kim, Seonghwan Kim, Taeyoon Kwon, Jiwan Chung, Youngjae Yu, Jinyoung Yeo  
EMNLP 2024

**[C3] Can Large Language Models be Good Emotional Supporter? Mitigating Preference Bias on Emotional Support Conversation [paper]**

Dongjin Kang\*, Sunghwan Kim\*, Taeyoon Kwon, Seungjun Moon, Hyunsouk Cho, Youngjae Yu, Dongha Lee, Jinyoung Yeo  
ACL 2024 (Outstanding Paper Award)

**[C2] Large Language Models are Clinical Reasoners: Reasoning-Aware Diagnosis Framework with Prompt-Generated Rationales [paper]**

Taeyoon Kwon\*, Kai Tzu-iunn Ong\*, Dongjin Kang, Seungjun Moon, Jeong Ryong Lee, Dosik Hwang, Yongsik Sim, Beomseok Sohn, Dongha Lee, Jinyoung Yeo  
AAAI 2024

**[C1] Dialogue Chain-of-Thought Distillation for Commonsense-aware Conversational Agents [paper]**

Hyunjoo Chae\*, Yongho Song\*, Kai Tzu-iunn Ong, Taeyoon Kwon, Minjin Kim, Youngjae Yu, Dongha Lee, Dongyeop Kang, Jinyoung Yeo  
EMNLP 2023

REFEREED JOURNAL PAPER

**[J1] Multi-task Deep Learning for Joint Detection of Necrotizing Viral and Non-infectious Retinitis from Common Blood and Serology Test Data [paper]**

Kai Tzu-iunn Ong\*, Taeyoon Kwon\*, Harok Jang, Min Kim, Christopher Seungkyu Lee, Suk Ho Byeon, Sung Soo Kim, Jinyoung Yeo, Eun Young Choi  
IOVS 2024

ACADEMIC SERVICES

**Reviewer**

ACL ARR Feb. 2025, Oct., Dec. 2024  
ICLR Oct. 2025

**Teaching Assistant (Academic)**

Natural Language Processing (CAS3301) | Yonsei University, Seoul, South Korea Spring. 2025  
Introduction to Computing (CAS1103) | Yonsei University, Seoul, South Korea Spring. 2025  
Introduction to Artificial Intelligence (AAI2250) | Yonsei University, South Korea Fall. 2024  
Natural Language Processing (AAI3301) | Yonsei University, Seoul, South Korea Spring. 2024

**Teaching Assistant (Industrial)**

Introduction to Natural Language Processing | SKT Academy, Seoul, South Korea Aug. 2025, Jul. 2024, Aug. 2023  
AI Expert Class | Samsung, Seoul, South Korea Jul. 2025, Jul. 2024

AWARDS & HONORS

**Spotlight** | Neurips 2025 2025  
**Outstanding Paper Award** | ACL 2024 2024  
**AI Graduate School Support Scholarship** | Yonsei University 2023  
**Summa Cum Laude** | Hanyang ERICA University 2023  
**Academic Excellence Scholarship** | Hanyang ERICA University 2022-2, 2020-2, 2017-2, 2017-1

## RESEARCH & WORK EXPERIENCE

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**Market Designers Inc. - Tutoring** | Seoul, South Korea

Mar. 2023 - Aug. 2024

*Part-time Research Scientist and NLP Engineer*

- Lead project solving real-world scenarios by deploying LLM-driven applications
- Contribute to development of LLM-based English tutoring system
- Participate in constructing a continuous integration system for chatbot content

**Convei Lab** | Yonsei University, Seoul, South Korea

Oct. 2022 - Sep. 2023

*Undergraduate Research Intern*

- Advisor: Jinyoung Yeo
- Led project developing novel framework for diagnosis leveraging LLMs' reasoning capabilities
- Co-led project applying ML/DL techniques in medical domain, resulting in journal publication [J1]