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RESEARCH INTEREST

Natural Language Processing, Machine Learning

Reasoning & Planning, LLM Agents, Embodied AI, Code LLMs, AI for Science

EDUCATION

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

(* Equal contribution)

PREPRINT

[P2] Embodied Agents Meet Personalization: Exploring Memory Utilization for Personalized Assistance [paper][webpage]

Taeyoon Kwon*, Dongwook Choi*, Sunghwan Kim, Hyojun Kim, Seungjun Moon, Beong-woo Kwak, Kuan-Hao Huang, Jinyoung Yeo
Arxiv preprint. 2025

[P1] Web-Shepherd: Advancing PRMs for Reinforcing Web Agents [paper]

Hyungjoo Chae*, Sunghwan Kim*, Junhee Cho*, ..., Taeyoon Kwon, ..., Jinyoung Yeo
Arxiv preprint. 2025

REFEREED CONFERENCE PAPER

[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, Hyungjoo Chae, Jungsoo Won, Dongha Lee, Jinyoung Yeo
ACL'25 (Oral): The 63 rd Annual Meeting of the Association for Computational Linguistics. 2025

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

Kai Tzu-iunn Ong*, Namyoun Kim*, Minju Gwak, Hyungjoo Chae, Taeyoon Kwon, Yohan Jo, Seung-won Hwang, Dongha Lee, Jinyoung Yeo
NAACL'25: The 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics. 2025

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

Hyungjoo Chae*, Taeyoon Kwon*, Seungjun Moon*, Yongho Song, Dongjin Kang, Kai Tzu-iunn Ong, Beong-woo Kwak, Seonghyeon Bae, Seung-won Hwang, Jinyoung Yeo
EMNLP'24: The 2024 Conference on Empirical Methods in Natural Language Processing. 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’24: The 2024 Conference on Empirical Methods in Natural Language Processing. 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
Outstanding Paper Award ACL’24: The 62nd Annual Meeting of the Association for Computational Linguistics. 2024

[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’24: The 38th Annual AAAI Conference on Artificial Intelligence. 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’23: The 2023 Conference on Empirical Methods in Natural Language Processing. 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: Investigative Ophthalmology & Visual Science, 2024.

ACADEMIC SERVICES

Reviewer

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

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 Jul. 2024, Aug. 2023
AI Expert Class | Samsung, Seoul, South Korea Jul. 2025, Jul. 2024

AWARDS & HONORS

Outstanding Paper Award | ACL’24 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

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]