

TAEYOON (CONNOR) KWON

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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)

REFEREED CONFERENCE PAPER

[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'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.

PREPRINT

[P4] Evaluating Robustness of Reward Models for Mathematical Reasoning [paper]

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

Arxiv preprint

[P3] Large Language Models Are Self-Taught Reasoners: Enhancing LLM Applications via Tailored Problem-Solving Demonstrations [paper]

Kai Tzu-iunn Ong*, Taeyoon Kwon, Jinyoung Yeo

Arxiv preprint

[P2] Towards Lifelong Dialogue Agents via Relation-aware Memory Construction and Timeline-augmented Response Generation [paper]

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

Arxiv preprint

[P1] COFFEE: Boost Your Code LLMs by Fixing Bugs with Feedback [paper]

Seungjun Moon*, Yongho Song*, Hyungjoo Chae*, Taeyoon Kwon, Dongjin Kang, Kai Tzu-iunn Ong, Seung-won Hwang, Jinyoung Yeo

Arxiv preprint

TEACHING ASSISTANT

Introduction to Artificial Intelligence (AAI2250) Yonsei University, Seoul, South Korea	Sep. 2024 - Dec. 2024
Introduction to Natural Language Processing SKT Academy, Seoul, South Korea	Jul. 2024
AI Expert Class Samsung, Seoul, South Korea	Jul. 2024
Natural Language Processing (AAI3301) Yonsei University, Seoul, South Korea	Mar. 2024 - Jun. 2024
Introduction to Natural Language Processing SKT Academy, Seoul, South Korea	Aug. 2023

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 <i>Part-time Research Scientist and NLP Engineer</i>	Mar. 2023 - Aug. 2024
<ul style="list-style-type: none">Lead project solving real-world scenarios by deploying LLM-driven applicationsContribute to development of LLM-based English tutoring systemParticipate in constructing a continuous integration system for chatbot content	
Convei Lab Yonsei University, Seoul, South Korea <i>Undergraduate Research Intern</i>	Oct. 2022 - Sep. 2023
<ul style="list-style-type: none">Advisor: Jinyoung YeoLed project developing novel framework for diagnosis leveraging LLMs' reasoning capabilitiesCo-led project applying ML/DL techniques in medical domain, resulting in journal publication [J1]	
Data Science Lab Hanyang ERICA University, Ansan, South Korea <i>Undergraduate Research Intern</i>	Jun. 2022 - Nov. 2022
<ul style="list-style-type: none">Advisor: Woohwan JungContributed to project enhancing low-resource fine-grained named entity recognition	
SE Lab Hanyang ERICA University, Ansan, South Korea <i>Undergraduate Research Intern</i>	Feb. 2021 - Jun. 2022
<ul style="list-style-type: none">Advisor: Scott Uk-Jin LeeParticipant in a project about measuring technical dept in ML/DL systemsStudied fundamentals of software engineering and ML/DL	