

TAEYOON (CONNOR) KWON

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RESEARCH INTEREST

Natural Language Processing, Machine Learning

Question Answering, Alignment, Knowledge & Reasoning + LLMs, Conversational Agents, Code LLMs

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

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

Best 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] THEANINE: Revisiting Memory Management in Long-term Conversations with Timeline-augmented Response Generation [paper]

Seo Hyun Kim*, Kai Tzu-iunn Ong*, Taeyoon Kwon, Namyoung Kim, Keummin Ka, SeongHyeon Bae, 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

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]

Data Science Lab | Hanyang ERICA University, Ansan, South Korea Jun. 2022 - Nov. 2022

Undergraduate Research Intern

- Advisor: Woohwan Jung
- Contributed to project enhancing low-resource fine-grained named entity recognition

SE Lab | Hanyang ERICA University, Ansan, South Korea Feb. 2021 - Jun. 2022

Undergraduate Research Intern

- Advisor: Scott Uk-Jin Lee
- Participant in a project about measuring technical dept in ML/DL systems
- Studied fundamentals of software engineering and ML/DL

TEACHING ASSISTANT

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

Best Paper Award | ACL'24 2024

Recipient of AI Graduate School Support Scholarship | Yonsei University 2023

Excellent Graduate | Hanyang ERICA University 2023

Participation Prize | KIISE Korea Computer Congress 2022 2022

Academic Excellence Scholarship | Hanyang ERICA University 2022-2, 2020-2, 2017-2, 2017-1