

Jaewoo Ahn

PH.D. CANDIDATE

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Research Interest

I am broadly interested in NLP, particularly in human-like conversational agents. Ultimately, I aim to develop embodied conversational agents for individuals that can interact naturally in multimodal real-world environments, serving as digital avatars or personal assistants.

- In the pre-LLM era, I concentrated on dialogue systems incorporating individual personas and external knowledge in memory-based architectures.
- In the post-LLM era, I focused on persona-based role-playing LLM agents, with particular emphasis on evaluating and improving the factuality and reducing hallucinations in LLMs.
- My current research interest is in integrating multisensory perception into LLMs to support multimodal interactions. Specifically, I focus on evaluating (e.g., VLM-as-a-judge) and improving (e.g., via synthetic data generation) the factuality and reducing hallucinations in Multimodal LLMs.

Education

Seoul National University

Ph.D. Candidate in Computer Science and Engineering; GPA: 4.2 / 4.3 (4.0 / 4.0)

- *Advisor:* Gunhee Kim (Vision and Learning Lab)

Seoul, S.Korea

Mar. 2022 -

Seoul National University

M.S. in Computer Science and Engineering; GPA: 4.06 / 4.3 (3.88 / 4.0)

- *Advisor:* Gunhee Kim (Vision and Learning Lab)
- *Thesis:* Leveraging Image Turn for Self-Supervised Multimodal Representation Learning in Image-Grounded Dialogues
- *Committee:* Sun Kim, Gunhee Kim, and Hyun Oh Song

Seoul, S.Korea

Sep. 2019 - Feb. 2022

Korea University

B.S. in Computer Science and Engineering; GPA: 4.15 / 4.5 (3.84 / 4.0)

Seoul, S.Korea

Mar. 2014 - Feb. 2019

Publications

* DENOTES EQUAL CONTRIBUTION

Can LLMs Understand Sense Ambiguity in Figurative Language? Evaluating LLMs' Figurative Word Sense Knowledge

Seokwon Song*, Taehyun Lee*, [Jaewoo Ahn](#), Jae Hyuk Sung, Gunhee Kim

Under Review

TimeChara: Evaluating Point-in-Time Character Hallucination of Role-Playing Large Language Models

[Jaewoo Ahn](#), Taehyun Lee, Junyoung Lim, Jin-Hwa Kim, Sangdoo Yun, Hwaran Lee, Gunhee Kim

ACL 2024 Findings

Who Wrote this Code? Watermarking for Code Generation

Taehyun Lee*, Seokhee Hong*, [Jaewoo Ahn](#), Ilgee Hong, Hwaran Lee, Sangdoo Yun, Jamin Shin, Gunhee Kim

ACL 2024

mRedditSum: A Multimodal Abstractive Summarization Dataset of Reddit Threads with Images

Keighley Overbay, [Jaewoo Ahn](#)*, Fatemeh Pesaran Zadeh*, Joonsuk Park, Gunhee Kim

EMNLP 2023

MPCHAT: Towards Multimodal Persona-Grounded Conversation

[Jaewoo Ahn](#), Yeda Song, Sangdoo Yun, Gunhee Kim

ACL 2023

Sequential Latent Knowledge Selection for Knowledge-Grounded Dialogue

Byeongchang Kim, [Jaewoo Ahn](#), Gunhee Kim

ICLR 2020

Spotlight

Experience

- Advisor: Gunhee Kim
- Worked on “Sequential Latent Knowledge Selection for Knowledge-Grounded Dialogue” with SKT corporation

Awards

Outstanding TA Award

College of Engineering, Seoul National University

2024

TA-RA Scholarship

Department of Computer Science and Engineering, Seoul National University

2023

Gold Award, 26th HumanTech Paper Award

Samsung Electronics

2020

Tuition Scholarship

Office of International Affairs, Seoul National University

2019-2020

1st Place, K-Startup 2017 National Competition

Korean Ministry of Education

2017

Academic Service

Conference Reviewer

ACL (2024 -), EMNLP (2024 -), ECCV (2024 -), ACL Rolling Review (2024 -)

Journal Reviewer

IJCV (2023 -), IEEE/ACM Transactions on Audio Speech and Language Processing (2023 -)

Teaching Assistant

Computer Vision (2020, 2023), Graduate Artificial Intelligence (2021, 2022)