Seongbo Jang

Ph.D. Candidate at POSTECH |
Visiting Scholar at Yonsei University

Research Interests

My research aims to develop **human-friendly AI agents endowed with social intelligence**. Toward this goal, I have worked on multimodal agents, evaluation methods for social intelligence, and the construction of benchmarks and large-scale synthetic datasets to model desirable human-like behaviors.

Experience

Yonsei University — Seoul, South Korea
Visiting Scholar — Jan 2024 – Present
Data & Language Intelligence Lab
Conducted research on timing-aware responses of open-domain dialogue systems

Scatter Lab, Inc. — Seoul, South Korea
Machine Learning Researcher (full-time) — Feb 2022 – Dec 2023
Contributed to the development of multimodal generative models for Luda Lee and Zeta

Scatter Lab, Inc. — Seoul, South Korea
Visiting Researcher — Aug 2019 – Feb 2022
Contributed to the development of response ranking models for Luda Lee

Pohang University of Science and Technology — Pohang, South Korea
Research Intern — Aug 2016 – Feb 2017
Developed a sentiment analysis web demo for online forums

Education

Pohang University of Science and Technology — Pohang, South Korea
Ph.D. in Computer Science and Engineering; GPA: 3.95 / 4.3 — Feb 2017 – Aug 2025
Evaluating and Improving Human-like Characteristics of Social Companion Chatbots: On Conversational Understanding, Multimodality, and Temporal Awareness
Advisor: Prof. Hwanjo Yu

Pohang University of Science and Technology — Pohang, South Korea
B.S. in Computer Science and Engineering; GPA: 3.58 / 4.3 — Mar 2011 – Aug 2016

Publications

(*: Equal contribution)

From What to Respond to When to Respond: Timely Response Generation for Open-domain Dialogue Agents
Seongbo Jang, Minjin Jeon, Jaehoon Lee, Seonghyeon Lee, Dongha Lee, and Hwanjo Yu
arXiv preprint, Jun 2025

On the Effectiveness of Integration Methods for Multimodal Dialogue Response Retrieval
Seongbo Jang, Seonghyeon Lee, Dongha Lee, and Hwanjo Yu
arXiv preprint, Jun 2025

Exploring Language Model's Code Generation Ability with Auxiliary Functions
Seonghyeon Lee, Sanghwan Jang, Seongbo Jang, Dongha Lee, and Hwanjo Yu
NAACL 2024 Findings

KoDialogBench: Evaluating Conversational Understanding of Language Models with Korean Dialogue Benchmark
Seongbo Jang*, Seonghyeon Lee*, and Hwanjo Yu
LREC-COLING 2024

Toward Interpretable Semantic Textual Similarity via Optimal Transport-based Contrastive Sentence Learning
Seonghyeon Lee, Dongha Lee, Seongbo Jang, and Hwanjo Yu
ACL 2022

KLUE: Korean Language Understanding Evaluation
Sungjoon Park*, Jihyung Moon*, Sungdong Kim*, Won Ik Cho*, …, Seongbo Jang, …, Alice Oh**, Jung-Woo Ha**, and Kyunghyun Cho** (31 authors)
NeurIPS Datasets and Benchmarks 2021

An Empirical Study of Tokenization Strategies for Various Korean NLP Tasks
Kyubyong Park*, Joohong Lee*, Seongbo Jang*, and Dawoon Jung*
AACL-IJCNLP 2020

Input initialization for inversion of neural networks using k-nearest neighbor approach
Seongbo Jang, Ye-Eun Jang, Young-Jin Kim, and Hwanjo Yu
Information Sciences, May 2020

Teaching

Teaching Assistant at POSTECH — Fall 2018
Programming & Problem Solving (CSED101)

Teaching Assistant at POSTECH — Spring 2018
Computer Architecture (CSED311)

Honors and Awards

3rd Place, Poster Award — Jun 2022
Presented as co-author at POSTECH X NAVER AI DAY

Academic Service

Reviewer — Dec 2024 – Present
ACL Rolling Review