Yejin Yoon

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EDUCATION

Hanyang University   Seoul, South Korea
Ph.D. Candidate in Computer Science   *Aug 2024 – Present*

Hanyang University   Seoul, South Korea
M.S. in Artificial Intelligence   *Sep 2022 – Aug 2024*
- Thesis: Enhanced Multi-Intent Detection with Blended Datasets.

Sookmyung Women's University   Seoul, South Korea
B.A. in Economics & B.S. in Statistics   *Mar 2014 – Feb 2020*

RESEARCH INTERESTS

Dialogue systems, conversational AI, memory system, preference modeling, tool calling.

EXPERIENCE

KT   Seoul, South Korea
Researcher (Internship)   *Jul 2023 – Aug 2023*
- KT AI2XL Research Lab; Large AI application P-TF emotional dialogue system project.

Saltlux   Seoul, South Korea
Researcher (Full-time)   *Mar 2020 – Aug 2022*
- AI Labs advanced research team.

PUBLICATIONS

* Co-first author; † Corresponding author.

Under Review

Latent Preference Reasoning for Multi-Session Personalized Tool-Calling   2026
Yejin Yoon, Minseo Kim, Taeuk Kim†

International Conferences

Beyond Task-Oriented and Chitchat Dialogues: Proactive and Transition-Aware Conversational Agents   EMNLP 2025
Yejin Yoon, Yuri Son, Namyoung So, Minseo Kim, Minsoo Cho, Chanhee Park, Seungshin Lee, Taeuk Kim†   *Nov 2025*

BlendX: Complex Multi-Intent Detection with Blended Patterns   LREC-COLING 2024
Yejin Yoon, Jungyeon Lee, Kangsan Kim, Chanhee Park, Taeuk Kim†   *May 2024*

Domestic Conferences

Multi-Intent Detection for Korean Spoken Language (Outstanding Paper Award)   KCC 2024
Yejin Yoon*, Jisoo Kim*, Jungmin Lim, Jungyeon Lee, Taeuk Kim†   *Jun 2024*

A Multi-Intent Dataset Enhanced with Implicit Concatenation   KCC 2024
Sungmin So*, Jiwoo Min*, Yejin Yoon, Jungyeon Lee, Taeuk Kim†   *Jun 2024*

Enhanced Prompting for Multi-Label Classification   KCC 2024
Jungyeon Lee, Youngwoo Shin, Yejin Yoon, Taeuk Kim†   *Jun 2024*

KoLegal-BERT: Legal Language Representation Model for Legal Domain Text Mining   KCC 2022
Sangmin Park*, Yejin Yoon*, Jaeyun Lee, Jaieun Kim†   *Jul 2022*

PATENTS

Method and Apparatus for Training Preference-Based Transition-Aware Conversational Models
Filed Nov 2025

KR 10-2025-0163766

Method and Apparatus for Generating and Validating Transition-Aware Dialogue Datasets
Filed Nov 2025

KR 10-2025-0163754

METHOD AND APPARATUS FOR GENERATING MULTI-INTENT UTTERANCE DATASETS
Filed Dec 2024

US 8/972132

CN 202411789815.2

Filed Dec 2024

Utterance Merging Technique Combining Rule-Based Methods and Generative AI for Multi-Intent Expansion
Filed Jun 2024

KR 10-2024-0072241

Dialogue Method Using Multiple Personas, Dialogue Apparatus, and Training Method for Persona Classification Models
Filed Feb 2024

KR 10-2024-0016697

AWARDS AND HONORS

Seoul Tech Scholarship
Nov 2025

Seoul Scholarship Foundation

Excellence Scholarship for Doctoral Students
Sep 2024

Hanyang University

KCC 2024 Outstanding Paper Award
Jun 2024

Korean Institute of Information Scientists and Engineers

Outstanding Achievement Award (Graduation Excellence)
Feb 2020

Sookmyung Women's University

PROJECTS

Conversational Agents with Hyper Long-Term Memory
Project Lead

National Research Foundation of Korea
Mar 2025 – Feb 2028

Multi-Intent Modeling for Advanced Speech Recognition
Project Lead

Hyundai Motor Company
Aug 2024 – Feb 2026

- Led foundational research on transition-aware multi-intent conversational AI, resulting in an EMNLP 2025 main conference publication.
- Designed and developed a preference-aligned dialogue framework integrating dataset construction, hybrid LLM-based validation, and multi-intent reasoning.
- Owned the end-to-end research and development pipeline, from modeling and data infrastructure to deployment of an LLM-based input analysis module for in-vehicle voice assistants.
- Directed project execution in an industry-academia collaboration, coordinating research contributors, managing milestones, and delivering deployable system outcomes.

Natural Language-Based Compound Intent Algorithms
Project Lead

Hyundai Motor Group (NGV)
Apr 2023 – Apr 2024

- Led research on multi-intent understanding for speech-based dialogue systems, addressing limitations of single-intent voice interaction models.
- Initiated and directed the construction of a large-scale multi-intent conversational dataset designed to model complex and transition-aware user interactions.
- Designed and led the development of a speech utterance segmentation-based multi-intent detection algorithm enabling accurate identification of multiple intents within a single user query.

- Resulted in a long paper publication at LREC-COLING 2024 and domestic and international patent applications derived from the proposed dataset construction and modeling methodology.
- Oversaw end-to-end research execution, organizing datasets, algorithms, and experimental frameworks into reproducible research artifacts.

TEACHING

Teaching Assistant

Natural Language Processing	Hanyang University
Instructor: Taeuk Kim	*Sep 2023*

Guest Speaker

CS Graduate Program Info Session	Hanyang University
Topic: Graduate school life and research advice	*Fall 2025*
Graduate School of Artificial Intelligence Convergence Info Session	Hanyang University
Topic: Industry-academia projects, dialogue systems	*Mar 2024*
Natural Language Processing	Hanyang University
Topic: Recent task-oriented dialogue (TOD) system research	*Dec 2023*

Student Mentoring

CAPSTONE SOFTWARE PROJECT 2	Hanyang University
	Mar 2024 – Aug 2024
CAPSTONE SOFTWARE PROJECT 1	Hanyang University
	Sep 2023 – Feb 2024

ACADEMIC SERVICES

AI Ambassador

Kakao (KANANA 429, AI Expert Track)	
	Mar 2026 – Present

Reviewer

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	
	Dec 2025 – Present

TALKS

Invited Talks

Practical Strategies for Overcoming the Limits of LLM Dialogue Capacity	SKT
Seoul, South Korea	*Apr 2024*

Contributed Talks

BlendX: Complex Multi-Intent Detection with Blended Patterns	GITW 2023
Tokyo, Japan	*Dec 2023*

SKILLS

Languages: Python
ML / DL / NLP: PyTorch, Hugging Face (Transformers, Datasets), scikit-learn
LLM Systems & Serving: vLLM, PEFT/TRL, DPO, FastAPI, Gradio
Research Tools: Git, LaTeX

LANGUAGE PROFICIENCY

English: Working Proficiency
Korean: Native