

# Yejin Yoon

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## EDUCATION

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### Hanyang University

*Ph.D. Candidate in Computer Science*

Seoul, South Korea

*Aug 2024 – Present*

### Hanyang University

*M.S. in Artificial Intelligence*

Seoul, South Korea

*Sep 2022 – Aug 2024*

- Thesis: Enhanced Multi-Intent Detection with Blended Datasets.

### Sookmyung Women's University

*B.A. in Economics & B.S. in Statistics*

Seoul, South Korea

*Mar 2014 – Feb 2020*

## RESEARCH INTERESTS

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

## EXPERIENCE

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### KT

*Researcher (Internship)*

Seoul, South Korea

*Jul 2023 – Aug 2023*

- KT AI2XL Research Lab; Large AI application P-TF emotional dialogue system project.

### Saltlux

*Researcher (Full-time)*

Seoul, South Korea

*Mar 2020 – Aug 2022*

- AI Labs advanced research team.

## PUBLICATIONS

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\* Co-first author; † Corresponding author.

### Under Review

**Same Semantics, Different Outcome: On the Modality Robustness of Multimodal LLMs under Knowledge Conflict**

2026

*Jungyeon Lee, **Yejin Yoon**, Taeuk Kim<sup>†</sup>*

**Latent Preference Modeling for Cross-Session Personalized Tool Calling**

2026

***Yejin Yoon**, Minseo Kim, Taeuk Kim<sup>†</sup>*

### 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<sup>†</sup>*

*Nov 2025*

**BlendX: Complex Multi-Intent Detection with Blended Patterns**

LREC-COLING 2024

***Yejin Yoon**, Jungyeon Lee, Kangsan Kim, Chanhee Park, Taeuk Kim<sup>†</sup>*

*May 2024*

### Domestic Conferences

**Multi-Intent Detection for Korean Spoken Language (Outstanding Paper Award)**

KCC 2024

***Yejin Yoon**<sup>\*</sup>, Jisoo Kim<sup>\*</sup>, Jungmin Lim, Jungyeon Lee, Taeuk Kim<sup>†</sup>*

*Jun 2024*

**A Multi-Intent Dataset Enhanced with Implicit Concatenation**

KCC 2024

*Sungmin So<sup>\*</sup>, Jiwoo Min<sup>\*</sup>, **Yejin Yoon**, Jungyeon Lee, Taeuk Kim<sup>†</sup>*

*Jun 2024*

**Enhanced Prompting for Multi-Label Classification**

KCC 2024

*Jungyeon Lee, Youngwoo Shin, **Yejin Yoon**, Taeuk Kim<sup>†</sup>*

*Jun 2024*

**KoLegal-BERT: Legal Language Representation Model for Legal Domain Text Mining**

KCC 2022

*Sangmin Park<sup>\*</sup>, **Yejin Yoon**<sup>\*</sup>, Jaeyun Lee, Jaieun Kim<sup>†</sup>*

*Jul 2022*

## PATENTS

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<b>Method and Apparatus for Training a Preference-Based Transition-Aware Dialogue Model</b> <i>Filing 2026</i>	US (Pending)
<b>Method and Apparatus for Generating and Validating Transition-Aware Dialogue Datasets</b> <i>Filing 2026</i>	US (Pending)
<b>Method and Apparatus for Training Preference-Based Transition-Aware Conversational Models</b> <i>Filed Nov 2025</i>	KR 10-2025-0163766
<b>Method and Apparatus for Generating and Validating Transition-Aware Dialogue Datasets</b> <i>Filed Nov 2025</i>	KR 10-2025-0163754
<b>METHOD AND APPARATUS FOR GENERATING MULTI-INTENT UTTERANCE DATASETS</b> <i>Filed Dec 2024</i>	US 8/972132
<b>用于生成多意图话语数据集的方法和装置</b> <i>Filed Dec 2024</i>	CN 202411789815.2
<b>Utterance Merging Technique Combining Rule-Based Methods and Generative AI for Multi-Intent Expansion</b> <i>Filed Jun 2024</i>	KR 10-2024-0072241
<b>Dialogue Method Using Multiple Personas, Dialogue Apparatus, and Training Method for Persona Classification Models</b> <i>Filed Feb 2024</i>	KR 10-2024-0016697

## AWARDS AND HONORS

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<b>Seoul Tech Scholarship</b> <i>Nov 2025</i>	Seoul Scholarship Foundation
<b>Excellence Scholarship for Doctoral Students</b> <i>Sep 2024</i>	Hanyang University
<b>KCC 2024 Outstanding Paper Award</b> <i>Jun 2024</i>	Korean Institute of Information Scientists and Engineers
<b>Outstanding Achievement Award (Graduation Excellence)</b> <i>Feb 2020</i>	Sookmyung Women's University

## PROJECTS

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<b>Conversational Agents with Hyper Long-Term Memory</b> <i>Project Lead</i>	National Research Foundation of Korea <i>Mar 2025 – Feb 2028</i>
<ul style="list-style-type: none"><li>• Led research on hyper long-term memory for conversational agents, focusing on persistent preference tracking and multi-session personalization.</li><li>• Designed a preference-aware memory framework that links long-horizon user behavior to structured tool-calling decisions.</li><li>• Built end-to-end pipelines for long-context data construction, memory-grounded modeling, and evaluation under realistic multi-session settings.</li><li>• Developing robust methods for preference abstraction and retrieval to improve consistency, controllability, and practical deployment of proactive dialogue agents.</li></ul>	
<b>Multi-Intent Modeling for Advanced Speech Recognition</b> <i>Project Lead</i>	Hyundai Motor Company <i>Aug 2024 – Feb 2026</i>
<ul style="list-style-type: none"><li>• Led foundational research on transition-aware multi-intent conversational AI, resulting in an EMNLP 2025 main conference publication.</li></ul>	

- 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

Hyundai Motor Group (NGV)

*Project Lead*

*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

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### Teaching Assistant

#### Natural Language Processing

*Instructor: Taeuk Kim*

Hanyang University

*Sep 2023*

### Guest Speaker

#### CS Graduate Program Info Session

*Topic: Graduate school life and research advice*

Hanyang University

*Fall 2025*

#### Graduate School of Artificial Intelligence Convergence Info Session

*Topic: Industry-academia projects, dialogue systems*

Hanyang University

*Mar 2024*

#### Natural Language Processing

*Topic: Recent task-oriented dialogue (TOD) system research*

Hanyang University

*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

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### 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

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### Invited Talks

**Practical Strategies for Overcoming the Limits of LLM Dialogue Capacity**

*Seoul, South Korea*

SKT

*Apr 2024*

### Contributed Talks

**BlendX: Complex Multi-Intent Detection with Blended Patterns**

*Tokyo, Japan*

GITW 2023

*Dec 2023*

## SKILLS

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**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

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**English:** Working Proficiency

**Korean:** Native