

# Woojung Song

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## EDUCATION

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**Seoul National University**, Seoul, South Korea Sep 2025 - Present  
Integrated Master's-Doctoral Program, Graduate School of Data Science  
**Hanyang University**, Seoul, South Korea Mar 2022 - Aug 2025  
B.I.S. Department of Information System Overall GPA: 4.35 — Major GPA 4.35

## PAPERS

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**Don't Adapt Small Language Models for Tools; Adapt Tool Schemas to the Models**  
*Proceedings of the 64th Annual Meeting of the Association for Computational Linguistics (ACL), Main* 2026  
Jonggeun Lee\*, **Woojung Song\***, Jongwook Han, Haesung Pyun, Yohan Jo  
\*Co-first authors

**Human Psychometric Questionnaires Mischaracterize LLM Psychology: Evidence from Generation Behavior**  
*Under Review* 2026  
**Woojung Song\***, Dongmin Choi\*, Yoonah Park, Jongwook Han, Eun-Ju Lee, Yohan Jo  
\*Co-first authors

**Non-Collaborative User Simulators for Tool Agents**  
*The Fourteenth International Conference on Learning Representations (ICLR)* 2026  
Jeonghoon Shim, **Woojung Song\***, Cheyon Jin, Seungwon Kook, Yohan Jo

**Psychometric Item Validation Using Virtual Respondents with Trait-Response Mediators**  
*Transactions of the Association for Computational Linguistics (TACL)* 2026  
Sungjib Lim, **Woojung Song\***, Eun-Ju Lee, Yohan Jo

**Quantifying Data Contamination in Psychometric Evaluations of LLMs**  
*Findings of the Association for Computational Linguistics: EACL* 2026  
Jongwook Han\*, **Woojung Song\***, Jonggeun Lee\*, Yohan Jo  
\*Co-first authors

**Value Portrait: Assessing Language Models' Values through Psychometrically and Ecologically Valid Items**  
*Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL), Main* 2025  
Jongwook Han\*, Dongmin Choi\*, **Woojung Song\***, Eun-Ju Lee, Yohan Jo  
\*Co-first authors

**Interpretable Prediction of Private Brand Purchases by Pet Type in E-Commerce for Consumer Behavior Analysis Using Real-World Transaction Data**  
*PeerJ Computer Science* 2026  
Jaehyuk Lee\*, **Woojung Song\***, Jina Kim, Yoona Chung, Eunchan Kim  
\*Co-first authors

## RESEARCH EXPERIENCE

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**Seoul National University, HOLI Lab** Seoul, South Korea  
*Undergraduate Research Assistant* Jul 2024 - Present

- Researching value alignment in Large Language Models (LLMs)
- Developing simulation frameworks using LLMs to model complex human behaviors and interactions

## WORK EXPERIENCE

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**LG Electronics, H&A Sound/Image Intelligence R&D Lab** Seoul, South Korea  
*Intern* Mar 2024 - Jun 2024

- Enhanced LLM-based Web Question Answering using RAG and multi-agent approaches
- Developed WAAG, an automated QA evaluation system with 40% accuracy improvement
- Achieved highest level in LG SW Competency Certification Test

**CNC Study, DataLingo Team** Seoul, South Korea  
*Project Manager* Jul 2022 - Present

- Develop English questions and performance analysis for middle school students

- Implement Chain-of-Thought prompting and multi-agent LLM systems for question generation

**US 8th Army**, Korean Augmentation To the United States Army  
*Sergeant (Senior KATUSA)*

Pyeongtaek, South Korea  
 May 2020 - Nov 2021

- Served in US 8th Army as part of the mandatory military service program
- Received Certificate of Appreciation for exceptional service

## PATENTS

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**English problem creation system using multi-agents**

App. No: 10-2024-0109541

*Filed: August 16, 2024*

- AI system for automated creation of English exam questions
- Aims to generate high-quality content and reduce educator workload

## AWARDS

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**3rd Place (Encouragement Award)**

South Korea

*Korea Meteorological Administration Weather Data Contest*

2025

**3rd Place (Chuncheon Mayor's Award)**

Chuncheon, South Korea

*Chuncheon Generative AI Competition*

Jun 2025

- Developed "Blue-Ming" Chuncheon City Youth Entrepreneurship AI Consulting Platform

**3rd Place, App and Service Development**

Busan, South Korea

*Busan Metropolitan City Mayor*

2024

- Developed "Korail Donghae" application integrating Language Models with custom tools and RAG
- Also won 1st place from Korea Railroad Corporation Busan-Gyeongnam Headquarters in DIVE competition

**2nd Place, IC-PBL Contest**

Seoul, South Korea

*LG Electronics*

Dec 2023

- Created "LG COVER" smart home hub project integrating Matter and non-Matter devices

**1st Place, GDSC x Alphaco Hackathon**

Seoul, South Korea

*Google Developer Student Clubs*

Dec 2023

- Developed "Nallang Mallang" mobile app for dementia and depression prevention

**Certificate of Appreciation**

South Korea

*US 8th Army Korean Augmentation To the United States Army*

Nov 2021

- Recognized for exceptional service and contributions to the KATUSA program

## DOMESTIC PAPERS

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**Enhancing the Security of AI Models through Parameter Encryption**

*KCC 2025*

2025

Dongwook Kim, **Woojung Song**

**B. F. Sword: Blank Inference System with Optimized RAG and Knowledge Distillation**

*Proceedings of HCI Korea 2025*

2025

Junseong Pyo, Hyejin Bae, Kitae Kwon, Jina Kim, **Woojung Song**, Yeonseong Shin

## SKILLS & COMPETENCIES

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- **Programming:** Python, C/C++
- **Relevant Coursework:** Data Structures, Databases, Computer Architecture, OS, Algorithms, Networks, Software Engineering, Machine Learning, Prompt Engineering, Deep Learning, Information Security
- **Language:** Korean (native), English (fluent)

## EXTRA-CURRICULAR ACTIVITIES

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**FORIF (Hanyang Programming Club)**

Seoul, South Korea

*Member (2022 - 2025), Vice President (2023)*

- Organized club events, including HPEC, doubling club membership
- Managed HPEC & HSPC algorithm competition as Project Manager