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Inju Lee

PhD Candidate in Cognitive Psychology

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Research Interests

Empathy, Social Cognition, Social Interaction, Computational Psychology, Human-AI Interaction (HAI)

Education

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| 2022 – Present | Ph.D. in Cognitive Psychology (Minor: Quantitative Psychology)
Seoul National University, Republic of Korea
Advisor: Prof. Sowon Hahn |
| 2020 - 2022 | M.A. in Cognitive Psychology
Seoul National University, Republic of Korea
Advisor: Prof. Sowon Hahn; Thesis: Effects of Mind Perception on Social Support of Chatbots |
| 2016 - 2020 | B.S. in Psychology , <i>summa cum laude</i>
Sogang University, Republic of Korea |

Research Experience

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| 2026 Fall | Visiting PhD Student
Uppsala Social Robotics Lab, Uppsala University, Sweden |
| 2019 - 2020 | Research Assistant
Human Factors Psychology Lab, Seoul National University, Republic of Korea |

Publications

Journal Articles

- Lee, I., & Hahn, S. (2024). On the Relationship Between Mind Perception and Social Support of Chatbots. *Frontiers in Psychology*, 15, 1282036. doi: 10.3389/fpsyg.2024.1282036.
- Lee, YK., Lee, I., Shin, M., Bae, S., & Hahn, S. (2024). Enhancing Empathic Reasoning of Large Language Models Based on Psychotherapy Models for AI-assisted Social Support. *The Korean Society for Cognitive Science*, 35(1), 23-48. doi: 10.19066/cogsci.2024.35.1.002.

Conference Proceedings

- **Lee, I.**, & Hahn, S. (2025). How Empathy Promotes Socially Adaptive Behaviors in Interpersonal Conflicts?: An Exploratory Study on the Role of Intention Inference. In *Proceedings of the 47th Annual Meeting of the Cognitive Science Society*.
- **Lee, I.**, Kang, G., Bae, S., Maeng, H., & Hahn, S. (2025). Exploring Digital Phenotypes for Life Satisfaction in Middle-Aged Women. In Jin, S., Kim, J.H., Kong, YK., Park, J., Yun, M.H. (Eds.), *Springer Series in Design and Innovation: Vol. 58. Proceedings of the 22nd Congress of the International Ergonomics Association* (pp. 635-641). Springer. doi: 10.1007/978-981-96-8904-0_83.
- Lee, YK., Jung, Y., **Lee, I.**, Park, J. E., & Hahn, S. (2021). Building a Psychological Ground Truth Dataset with Empathy and Theory-of-Mind During the COVID-19 Pandemic. In *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society*.

Preprints

- Lee, YK., **Lee, I.**, Shin, M., Bae, S., & Hahn, S. (2023). *Chain of Empathy: Enhancing Empathetic Response of Large Language Models Based on Psychotherapy Models*. ArXiv. [[pdf](#)]
- Lee, YK., **Lee, I.**, Park, J. E., Jung, Y., Kim, J., & Hahn, S. (2021). *A Computational Approach to Measure Empathy and Theory-of-Mind from Written Texts*. ArXiv. [[pdf](#)]

Conference Presentations

- **Lee, I.** & Hahn, S. (2025). *How Empathy Promotes Socially Adaptive Behaviors in Interpersonal Conflicts?: An Exploratory Study on the Role of Intention Inference*. The 47th Annual Meeting of the Cognitive Science Society, San Francisco, SF., USA. [Poster Presentation]
- **Lee, I.**, Kang, K., Bae, S., Maeng, H., & Hahn, S. (2024). *Exploring digital phenotypes for life satisfaction in middle-aged women*. The 22nd Triennial Congress of the International Ergonomics Association (IEA). Jeju, Republic of Korea. [Oral Presentation]
- **Lee, I.** & Hahn, S. (2021). *An Exploratory Study of the Relationship between Type of Others and Level of Perspective-Taking during the COVID-19 Pandemic*. The Annual Conference of Korean Society for Cognitive Science, Virtual Meeting. [Poster Presentation]
- Lee, YK., **Lee, I.**, Park, J. E., & Hahn, S. (2021). *Evaluation of Empathy Detection Performance of Deep Learning Models using Theory-of-Mind levels and COVID-19 Emotion-Diary Corpus*. The Annual Conference of Korean Society for Cognitive Science, Virtual Meeting. [Poster Presentation]
- Lee, YK., Jung, Y., **Lee, I.**, Park, J. E., & Hahn, S. (2021). *Building a Psychological Ground Truth Dataset with Empathy and Theory-of-Mind During the COVID-19 Pandemic*. The 43rd Annual Meeting of the Cognitive Science Society. Virtual

Meeting. [Poster Presentation]

Research Projects

2025 - Present	Graduate Researcher , <i>Connecting Forms, Moving Language: Designing a Responsive Multi-Actor Interaction System for Social Network Expansion</i> (PI: Prof. Eui-Chul Jung), National Research Foundation of Korea.
2025 - Present	Graduate Researcher , <i>Development of a Social Competence Enhancement Model for Korean Smart-Aging</i> (PI: Prof. Sowon Hahn), National Research Foundation of Korea.
2025 - Present	Graduate Researcher , <i>SKERIC Future Laureates Societal Challenges Programme</i> (theme AI), Sweden-Korea Education, Research, and Innovation Collaboration (SKERIC).
2022 – 2024	Graduate Researcher , <i>Development of Multidisciplinary Well-Aging Indicators and Digital Application for Menopause Symptom Monitoring of Middle-Aged Women</i> (PI: Prof. Meejung Chin), Seoul National University.
2021 – 2022	Graduate Researcher , <i>Smart-Aging Avatars: Research on Intelligent Biofeedback and Visualized Human-AI Interaction Technologies</i> (PI: Prof. Sowon Hahn), Seoul National University.
2021 – 2022	Graduate Researcher , <i>SNU Diversity Council 2030 Development Plan Establishment Study</i> (PI: Prof. Sowon Hahn), SNU Diversity Council.
2020 – 2022	Graduate Researcher , <i>AI-based Online Personal Psychological Monitoring & Management System</i> (PI: SRuniverse), Seoul Business Agency.
2020	Graduate Researcher , <i>COVID-19 Psychological-Aid Dataset: Implications of Psychological Theory of Personality, Empathy and Loneliness</i> (PI: Prof. Sowon Hahn), Korean Data Agency.

Grants and Awards

Grants

2026	<i>Development and Evaluation of Empathic Listening AI</i> , Social Science Researcher Grant, Seoul National University – KRW 1,800,000.
2026	SKERIC long-term mobility programme, Sweden-Korea Education, Research, and Innovation Collaboration (SKERIC) – SEK 145,000.

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| 2023 – 2025 | <i>A Way to Measure Empathic Accuracy for Computational Approaches</i> , Research Subsidies for Ph.D. Students/Candidates, National Research Foundation of Korea – KRW 40,000,000. |
| 2021 | <i>Effect of Mind Perception in Chatbot on User's Perception about Chatbot's Empathic Expression</i> , Social Science Researcher Grant, Seoul National University – KRW 3,000,000. |

Awards

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| 2021 | Academic Excellent Scholarship, Seoul National University |
| 2020 | Summa Cum Laude, Sogang University. |
| 2018 Fall | Academic Achievement Excellence Award, Sogang University. |
| 2016 Spring | Academic Excellent Scholarship, Sogang University. |

Talks and Workshops

Talks

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| 2021 | <i>Context-based Conversation Comprehension using RASA</i> , AppCog (Applied Cognition), Human Factors Psychology Lab, Seoul National University. [link] |
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Workshops

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| 2025 | <i>A Data-driven Approach to Identifying Critical Indicators for Variables of Interest</i> , 2025_SNUIPS_AI_Workshop, Seoul National University. [link] |
| 2021 | <i>How to make a customized chatbot for human-AI interaction studies?</i> , Open Lab Workshop, Human Factors Psychology Lab, Seoul National University. [link] |

Academic Service

Organizer

- Co-Organizer, 2025 SKERIC Inclusive AI Symposium

Peer Reviewer

- Current Psychology (2026)
- Korean Journal of Cognitive Science (2022)

Teaching Assistant

- Student-Led Seminar: Living and Learning, Seoul National University (2025 Fall)

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- Psychology of Emotion and Behavior, Korean Mass Open Online Course (K-MOOC) (2022 - Present)

Research Administration

- **System Administrator**, SNU Department of Psychology Sona System (Participant Recruitment System) (2024-2026)
- **Lab Manager**, Human Factors Psychology Lab, Seoul National University (2019-2020)

Skills

Programming Language	Python (Advanced), C (Basic), C++ (Basic), SQL (Basic)
Statistical Operation	R (Advanced), SAS (Intermediate)
Web App Framework	Streamlit (Project-Level Experience)
Chatbot Framework	Chatfuel, Dialogflow, RASA (Project-Level Experience)
LLM/ML Framework	LangChain, PyTorch, TensorFlow (Project-Level Experience)
