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# Inju Lee

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## Research Interests

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

## Education

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

## Research Experience

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

## Publications

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### 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**

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- **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

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| 2025 - Present | <b>Graduate Researcher</b> , <i>Development of a Social Competence Enhancement Model for Korean Smart-Aging</i> (PI: Prof. Sowon Hahn), National Research Foundation of Korea.                                                |
| 2025 - Present | <b>Graduate Researcher</b> , <i>SKERIC Future Laureates Societal Challenges Programme</i> (theme AI), Sweden-Korea Education, Research, and Innovation Collaboration (SKERIC).                                                |
| 2025 - 2026    | <b>Graduate Researcher</b> , <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.   |
| 2022 – 2024    | <b>Graduate Researcher</b> , <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    | <b>Graduate Researcher</b> , <i>Smart-Aging Avatars: Research on Intelligent Biofeedback and Visualized Human-AI Interaction Technologies</i> (PI: Prof. Sowon Hahn), Seoul National University.                              |
| 2021 – 2022    | <b>Graduate Researcher</b> , <i>SNU Diversity Council 2030 Development Plan Establishment Study</i> (PI: Prof. Sowon Hahn), SNU Diversity Council.                                                                            |
| 2020 – 2022    | <b>Graduate Researcher</b> , <i>AI-based Online Personal Psychological Monitoring &amp; Management System</i> (PI: SRuniverse), Seoul Business Agency.                                                                        |
| 2020           | <b>Graduate Researcher</b> , <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

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### Grants

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|------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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**

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#### **Talks**

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|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2021 | <i>Context-based Conversation Comprehension using RASA</i> , AppCog (Applied Cognition), Human Factors Psychology Lab, Seoul National University. [ <a href="#">link</a> ] |
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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. [ <a href="#">link</a> ]        |
| 2021 | <i>How to make a customized chatbot for human-AI interaction studies?</i> , Open Lab Workshop, Human Factors Psychology Lab, Seoul National University. [ <a href="#">link</a> ] |

### **Academic Service**

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#### **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**

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| 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) |

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