

Yoonwon Jung

Curriculum Vitae

1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea 08826 | ywjung@snu.ac.kr

RESEARCH INTERESTS

Cognitive Science, Affective Psychology, Computational Linguistics, Human-Computer Interaction

EDUCATION

Ph.D. Cognitive Science 2023 – 2028 (Expected)
University of California San Diego California, USA

Advisor: Benjamin Bergen, Ph.D.

M.A. Cognitive Psychology 2020 – 2022
Seoul National University Seoul, Korea

Advisor: Sowon Hahn, Ph.D.

Thesis title: “Social robots as companions for lonely hearts: The role of anthropomorphism and robot appearances”

B.A. Psychology 2016 – 2020
Seoul National University Seoul, Korea

Summa Cum Laude

Departmental First-Class Distinction (1/31)

Exchange Student Fall 2018
Boston College Massachusetts, USA

PUBLICATIONS

Journal Articles

Kim, JW., **Jung, Y.**, Lee, YK., & Hahn, S. (2023). The relationship between perspective-taking ability and psychological and emotional characteristics observed in a large emotion diary dataset: A cluster analysis. *Korean Journal of Health Psychology*, 28(1), 1-25, 10.17315/kjhp.2023.28.1.001. [\[pdf\]](#)

Conference Proceedings

Jung, Y., & Hahn, S. (2023). Social robots as companions for lonely hearts: The role of anthropomorphism and robot appearance. *32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2023)*. [\[pdf\]](#)

Lee YK., **Jung, Y.**, Kang, K., & Hahn, S. (2023). Developing Social Robots with Empathetic Non-Verbal Cues Using Large Language Models. Late Breaking Report at *32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2023)*.

Jung, Y., Lee, YK., & Hahn, S. (2021). Web-scraping the Expression of Loneliness during COVID-19. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 43. <https://escholarship.org/uc/item/53m546pq>.

Lee, YK., **Jung, Y.**, Lee, I., Park, JE., & Hahn, S. (2021). Building a Psychological Ground Truth Dataset with Empathy and Theory-of-Mind During the COVID-19 Pandemic. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 43. <https://escholarship.org/uc/item/950900w7>.

Unpublished Manuscripts

Jung, Y., Lee, Y & Hahn, S. Age and gender differences in loneliness during the COVID-19: Analyses on large cross-sectional surveys and emotion diaries [Under Review]. PsyArXiv. [\[preprint\]](#)

Lee, YK., Lee, I., Park, J. E., **Jung, Y.,** Kim, J., & Hahn, S. A Computational Approach to Measure Empathy and Theory-of-Mind from Written Texts [Unpublished manuscript]. arXiv:2108.11810. [\[preprint\]](#)

CONFERENCE PRESENTATIONS

Oral Presentations

Jung, Y., & Hahn, S. (2023). Social robots as companions for lonely hearts: The role of anthropomorphism and robot appearance. *32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2023)*. Busan, Republic of Korea.

Poster Presentations

Lee YK., **Jung, Y.,** Kang, K., & Hahn, S. (2023). Developing Social Robots with Empathetic Non-Verbal Cues Using Large Language Models. *32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2023)*. Busan, Republic of Korea. [\[poster\]](#)

Jung, Y., Jung, S., Hahn, S. (2023). The effect of emotional clarity on mental health: the role of emotion regulation. *The 13th International Conference on Cognitive Science*. Seoul, Republic of Korea. [\[poster\]](#)

Jung, Y., Lee, YK., & Hahn, S. (2021). Age and gender differences in loneliness during the COVID-19: Analyses on large cross-sectional surveys and emotion diaries. *The Annual Conference of Korean Cognitive Science Society*, Seoul, Republic of Korea (Virtual). [\[poster\]](#)

Jung, Y., Lee, YK., & Hahn, S. (2021). Web-scraping the Expression of Loneliness during COVID-19. *The 42nd Annual Meeting of the Cognitive Science Society*, Vienna, Austria (Virtual). [\[poster\]](#)

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 42nd Annual Meeting of the Cognitive Science Society*, Vienna, Austria (Virtual).

TALKS AND WORKSHOPS

Social Robots as Companions for Lonely Hearts: The Role of Anthropomorphism and Robot Appearance, *Cogsci 2023 Seoul Local Meetup*. Jul. 2023. [\[link\]](#)

Web-scraping & Topic Models, *Open Lab Talk hosted by Human Factors Psychology Lab (Seoul National University)*. Aug. 2021. [\[link\]](#)

Loneliness & Web-scraping, *Open Lab Talk hosted by Human Factors Psychology Lab (Seoul National University)*. Jan. 2021. [\[link\]](#)

AWARDS AND SCHOLARSHIPS

Scholarship for Overseas Ph.D. student, *KFAS (Korea Foundation for Advanced Studies)*. Aug. 2023 – Present.

Scholarship for Overseas Ph.D. program applicant, *KFAS (Korea Foundation for Advanced Studies)*. Aug. 2022 – Jul. 2023.

Graduate Scholarship for Academic Excellence, *Seoul National University*, Spring 2021.

Summa Cum Laude, Departmental First-Class Distinction(1/31), *Seoul National University*. 2020.

Undergraduate Scholarship for Academic Excellence, *Yongin Human Resources Development Foundation*. 2016, 2017, 2019 (Annually Awarded).

Undergraduate Scholarship for Academic Excellence, *Seoul National University*. Spring 2016, Fall 2016, Spring 2017, Spring 2018.

FUNDING AND GRANTS

SNU Social Sciences Research Grant for Graduate Students, *Seoul National University*. 2021.

Title: "The effect of robot appearance on the relationship between loneliness and anthropomorphism: The difference between state and trait loneliness"

Grant amount: 3,000,000 won (\$3600)

Social Science Research Grant for Undergraduates, *Seoul National University*. 2019.

Title: "The effect of extraversion on vulnerability to loneliness: Moderating effects of loneliness"

Grant amount: 1,500,000 won (\$1800)

Special Program for Exploration on Value and Practice, *Seoul National University*. 2019.

Title: "Relationship-seeking of Korean young adults: On the difference between evaluating self and others"

Grant amount: 3,000,000 won (\$3600)

GRADUATE RESEARCH EXPERIENCE

Human Factors Psychology Lab (PI: Sowon Hahn, Ph.D.), *Seoul National University*. 2020 - 2023

i. Launched and led three collaborative projects and produced papers for publication

The effect of promoting higher emotional granularity on neuroticism: the mediating effect of emotion regulation. Jul. 2022 – Present.

Age and gender differences in loneliness during COVID-19: Analyses on large cross-sectional surveys and emotion diaries. Apr. 2021 – Aug. 2022.

Web-scraping the Expression of Loneliness during COVID-19. Nov. 2020 – Jul. 2021.

ii. Participated in four funded research projects

Smart-Aging Avatars: Research on Intelligent Biofeedback and Visualized Human-AI Interaction Technologies, *Seoul National University*. Sep. 2021 – Aug. 2022.

- Designed the pilot study on giving AI-generated feedback on walking posture and speed using CLOVA AI voice generator, gaining insight on user-preferred feedback

SNU Diversity Council 2030 Development Plan Establishment Study, *Seoul National University Diversity Council*. Oct. 2021 – Feb. 2022.

- Evaluated shortcomings of current diversity policies and investigated examples of the strong policies, laying the foundations for designing the future 10-year diversity policy of Seoul National University

AI-based Online Personal Psychological Monitoring & Management System. *Seoul Business Agency*, Dec. 2020 – Feb. 2022.

- Developed CBT (Cognitive-Behavioral Therapy) and RT (Reality Therapy) based human-chatbot dialogue flows for the psychologically monitoring chatbot
- Built approx. 1000 training datapoints for the chatbot

COVID-19 Psychological-Aid Dataset: Implications of Psychological Theory of Personality, Empathy, and Loneliness. *Kdata*, Sep. 2020 – Dec. 2020.

- Designed the dataset to measure Koreans' psychological state during COVID-19
- Designed and led 8 workshop sessions to instruct the data labelers on how to label theory-of-mind levels from given text data
- Inspected approx. 8000 labelled text entries to ensure the accuracy of the labels

UNDERGRADUATE RESEARCH EXPERIENCE

Human Factors Psychology Lab (PI: Sowon Hahn, Ph.D.), Seoul National University. 2019 - 2020.

- Conducted literature reviews on factors affecting trust in Human-AI interactions
- Preprocessed data for statistical analyses using Excel and R

Social Psychology Lab (PI: Incheol Choi, Ph.D.), Seoul National University. 2020.

- Conducted literature reviews on relationship among interest, enjoyment, and competence

TEACHING EXPERIENCE

[Teaching Assistant] Introduction to Psychology (English), Seoul National University. Spring 2021.

- Led weekly group discussions and workshops (virtual)
- Graded essays and exam responses of 80 students

WORK EXPERIENCE

[Editorial Secretary] Korean Journal of Cognitive Science, The Korean Society for Cognitive Science. Jan. 2022 – Jan. 2023.

- Managed the journal's review and quarterly publication processes

[Intern] C.lab (Startup Incubation Program), Samsung Electronics. Jun. 2019 – Aug. 2019.

- Worked for HAXBY (AI-based math learning assisting application) team
 - Designed the user experience (UX) of application pages providing math assistance and user analysis results for better usability for both students and teachers
 - Assisted in-person user test with a prototype and analyzed the limitations of the current functions and designs of the app

SKILLS

Language

Korean Native proficiency

English Full professional proficiency (GRE: V163/Q170/W4.5)

Programming & Data Analysis

Python Preprocessing (pandas, numpy, nltk, spaCy), Web-scraping (BeautifulSoup, selenium, requests), Machine learning & Deep learning (gensim, pytorch, huggingface), Visualization (matplotlib), Large Language Models (OpenAI, LangChain)

R Preprocessing (dplyr), Statistical analyses (psych, sem), Visualization (ggplot2)

REFERENCES

Benjamin Bergen, Ph.D. **Ph.D. Advisor** bkbergen@ucsd.edu

Department of Cognitive Science, University of California San Diego, California, USA.

Sowon Hahn, Ph.D. **Master's Advisor** swhahn@snu.ac.kr

Department of Psychology, Seoul National University, Seoul, Republic of Korea.