

# Yoonwon Jung

Curriculum Vitae

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## RESEARCH INTERESTS

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

## EDUCATION

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**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

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### 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 for presentation at *the 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## Unpublished Manuscripts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

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### 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. *The 32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2023)*. Busan, Republic of Korea.

**Jung, Y.**, Jung, S., Hahn, S. (2023). The effect of emotional clarity on mental health: the role of emotion regulation. *The 13<sup>th</sup> International Conference on Cognitive Science*. Seoul, Republic of Korea.

**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). [\[pdf\]](#)

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

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. *The 42<sup>nd</sup> Annual Meeting of the Cognitive Science Society*, Vienna, Austria (Virtual).

## TALKS AND WORKSHOPS

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

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

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

## AWARDS AND SCHOLARSHIPS

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**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

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**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 basal loneliness level."

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

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**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 the labeled data from approx. 8000 text entries to ensure the accuracy of theory-of-mind labels

## UNDERGRADUATE RESEARCH EXPERIENCE

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**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 the relationship among interest, enjoyment, and competence

## TEACHING EXPERIENCE

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**[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

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**[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

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### 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 (gensim, pytorch), Visualization (matplotlib)

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

## REFERENCES

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**Benjamin Bergen, Ph.D.** Ph.D. Advisor [bkbergen@ucsd.edu](mailto: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](mailto:swhahn@snu.ac.kr)

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