Yoonwon Jung

Curriculum Vitae
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RESEARCH INTERESTS

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

EDUCATION

Ph.D. Cognitive Science   2023 – 2028 (Expected)
UC San Diego   *California, USA*
    Advisor: Benjamin Bergen, Ph.D.

M.A. 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. *Proceedings of the 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)*. [pdf]

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Unpublished Manuscripts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gender differences in loneliness during the COVID-19: Analyses on large cross-sectional surveys and emotion diaries [Unpublished manuscript]. PsyArXiv. [pdf]

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. [pdf]

CONFERENCE PRESENTATIONS

Oral Presentations

[Presenter] 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

[Presenter] 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. [pdf]

[Presenter] 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. [pdf]

[Presenter] 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]

[Presenter] 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). [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 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, *Invited talk at the 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]

FELLOWSHIPS AND GRANTS

Fellowship for Overseas Ph.D. students, *KFAS (Korea Foundation for Advanced Studies)*. 2023 – Present. $13,000/year

Fellowship for Oversears Ph.D. program applicants, *KFAS (Korea Foundation for Advanced Studies)*. 2022-2023. 5,000,000 won ($5000)

SNU Social Sciences Research Grant for Graduate Students, *Seoul National University*. 2021. 3,000,000 won ($3,000)

Social Science Research Grant for Undergraduates, *Seoul National University*. 2019. 1,500,000 won ($1,500)

Special Research Grant for Undergraduates: Exploration on Value and Practice, *Seoul National University*. 2019. 3,000,000 won ($3,000)

GRADUATE RESEARCH EXPERIENCE

Language and Cognition Lab (PI: Benjamin Bergen, Ph.D.) *UC San Diego*, 2023 – Present.

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

    i. Launched and led three collaborative projects

> **The effect of promoting higher emotional clarity on neuroticism and well-being: 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 three funded research projects

> **SNU Diversity Council 2030 Development Plan Establishment Study,** *Seoul National University Diversity Council*. Oct. 2021 – Feb. 2022.
> - Evaluated shortcomings of current Seoul National University diversity policies and investigated examples of the strong diversity policies, which laid a foundation 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
> - Built approx. 1000 training datapoints for training chatbot model
>
> **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

TEACHING EXPERIENCE

[Teaching Assistant] Introduction to Psychology, *Seoul National University*. Spring 2021.
- Led weekly group discussions and workshops (Virtual, in English)
- 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 api, 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, UC 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.