

# Hyeonmin Amber Lee

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<https://hyeonminamberlee.github.io/>

## EDUCATION

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**M.A. in Clinical Psychology** 2023–2025  
*Seoul National University, Department of Psychology* Seoul, Korea  
· Overall GPA: 4.06/4.3

**B.A. in Psychology, double major in Social Welfare, summa cum laude** 2019–2023  
*Seoul National University, Department of Psychology and Social Welfare* Seoul, Korea  
· Overall GPA: 4.06/4.3

## RESEARCH INTERESTS

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Computational psychiatry; addiction and substance use; naturalistic decision-making;  
digital phenotyping; personalized interventions

## RESEARCH EXPERIENCE

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**Computational Clinical Science Laboratory** Sep 2022–Present  
*Seoul National University*  
· Advisor: Prof. Woo-Young Ahn

Post-Master Research Assistant Sep 2025–Present  
Graduate Research Assistant Sep 2023–Aug 2025  
Undergraduate Research Assistant Sep 2022–Aug 2023

- Coordinate and execute human research experiments, data quality control, analysis planning, documentation, and manuscript preparation for first-author and co-first-author research outputs.
- Conduct model-based fMRI analyses linking computational decision variables to neural responses.
- Designed and implemented behavioral tasks for Minecraft-based 3D naturalistic decision-making experiments.
- Built reproducible pipelines for behavioral task data, including choice behavior, reward trajectories, movement trajectories, and view dynamics.
- Adapted and evaluated cost-sensitive reinforcement learning models for a Minecraft-based naturalistic decision-making task to examine how movement costs shape exploration and exploitation.
- Processed and analyzed smartphone-based monitoring data, computational markers, and clinical variables to examine daily fluctuations in alcohol-related behavior.

**Undergraduate Research Support Program** May 2022–Jan 2023  
*Seoul National University*  
· Advisor: Prof. Jiook Cha

### Research Assistant

- Designed and assisted in administering a 5-week VR-assisted group CBT program for college students with social anxiety, incorporating virtual-environment exposure exercises, clinical questionnaires, and wearable-derived heart-rate and heart-rate-variability measures.
- Recruited participants, administered the VR-based social anxiety reduction experiment, analyzed behavioral data, and prepared results for poster presentation; received University President's Award.

## PUBLICATIONS AND MANUSCRIPTS

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**Lee, H.†**, Kwon, M.†, Lee, J., Kwon, M., Song, S., Lee, D., ... Ahn, W.-Y. (2026). *Daily fluctuations in delay discounting and smartphone-based multimodal measures track nighttime drinking in alcohol use disorder: A 28-day monitoring study*. Manuscript under review. PsyArXiv preprint: [https://osf.io/preprints/psyarxiv/he7rn\\_v1](https://osf.io/preprints/psyarxiv/he7rn_v1)

**Lee, H.†**, Jeon, J.†, Lee, J., Shim, W.-M., & Ahn, W.-Y. (2026). *Naturalistic foraging reveals latent signatures of value-guided exploration during nicotine abstinence*. Manuscript in preparation.

† Equal contribution.

## PRESENTATIONS

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**Lee, H.**, Kwon, M., Lee, J.-H., Kwon, M., Song, S., Lee, D., Choi, J.-S., Jung, Y.-C., & Ahn, W.-Y. (2026). Computational Markers and Digital Phenotypes Jointly Characterize Daily Drinking, *Poster presented at the Computational Psychiatry Conference, New Haven, CT*.

**Lee, H.**, Jeon, J., Lee, J., Shim, W. M., & Ahn, W.-Y. (2025). Naturalistic Decision-Making Reveals Exploit Bias and Cost Insensitivity in Abstinent Smokers, *Poster presented at Neuroscience 2025, Society for Neuroscience Annual Meeting, San Diego, CA*.

**Lee, H.**, Kim, D., & Cha, J. (2023). Development of Metaverse Social Anxiety Reduction Program for Social Anxiety and Verification of Effectiveness, *Poster presented at the World Congress of Cognitive and Behavioral Therapies, Seoul, Korea*.

## TEACHING EXPERIENCE

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**Seminar in Experimental Psychology: Computational Modeling** Mar 2025–Jun 2025  
Teaching Assistant

- Reviewed and graded coding assignments and provided feedback on students' computational modeling work.
- Assisted students with troubleshooting code and understanding core concepts in computational modeling.

**Additional Teaching Assistantships** Sep 2023–Dec 2024  
Counseling Psychology, Affective Psychology, Abnormal Psychology

## AWARDS & HONORS

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**President's Award, Undergraduate Research Support Program, First Place** 2023  
Seoul National University

**Academic Excellence and Merit-Based Scholarships** 2019–2023  
Seoul National University  
One full-tuition scholarship and multiple partial-tuition scholarships for academic excellence

## SKILLS

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**Programming and Statistical Tools:** Python, R, Stan, MATLAB, SPM  
**Languages:** Korean, native; English, professional working proficiency