

Jihyun K. Hur

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EDUCATION

Seoul National University

Seoul, Korea

M.A. in Psychology

Sep. 2019 - Aug. 2021

- Advisor: Dr. Woo-Young Ahn
- Area of Study: Clinical Psychology (GPA: 4.30/4.30)
- Master's Thesis: Investigating the Effect of Anxiety on Model-Based Reinforcement Learning in Reward and Punishment Conditions: a Computational Modeling Study

Washington University in St. Louis

St. Louis, MO

B.S. in Business Administration

Aug. 2015 - May 2018

- Graduation with Honors in Management
- Area of Study: Accounting (GPA: 3.83/4.00)
- Honors Thesis: Follow the Money: Analyzing Crime Statistics Based on Income, Race and Age at the Census Tract Level

RESEARCH EXPERIENCES

Rutledge Laboratory

Yale University

Research Technician

Aug. 2021 - Present

- PI: Dr. Robb B. Rutledge
- Manage a large-scale smartphone-based project funded by National Institute of Mental Health (R01 grant)
- Coordinate class logistics for Computational Modeling of Human Behavior course (Fall 2021)

Computational Clinical Science Laboratory

Seoul National University

Research Assistant

Jan. 2019 - Aug. 2019

- PI: Dr. Woo-Young Ahn
- Accepted into Adolescent Brain Cognitive Development (ABCD) workshop held in Portland, OR, and led a hackathon project
- Wrote sharable Python codes for automating download of ABCD study raw and minimally preprocessed neuroimaging data

CLINICAL EXPERIENCES

Center for Student Life and Culture

Seoul National University

Counselor (Team Leader)

Jan. 2021 - Aug. 2021

- Organized intake interview schedule and conducted 2 intake interviews and 3 individual counseling sessions per week
- Administered psychometric tests and provided a comprehensive interpretation of test results to clients

Counseling and Welfare Center for Youth

Seoul, Korea

Counselor

Mar. 2020 - Jul. 2020

- Conducted 8 intake interviews with adolescents to understand their chief complaints and assign proper counselors
- Provided 4 one-time counseling sessions over telephone using problem-solving therapy

PUBLICATIONS

Kim, H., **Hur, J. K.**, Kwon, M., Kim, S., Zoh, Y., & Ahn, W.-Y. (2023). Causal Role of the Dorsolateral Prefrontal Cortex in Modulating the Balance Between Pavlovian and Instrumental Systems in the Punishment Domain. *PLoS ONE*, 18(6), e0286632.

Kao, C. H., Feng, G. W., **Hur, J. K.**, Jarvis, H., & Rutledge, R. B. (2023). Computational models of subjective feelings in psychiatry. *Neuroscience & Biobehavioral Reviews*, 19(145), 105008.

Hur, J. K., Yang, J., Doh, H., & Ahn, W.-Y. (2020). Mapping fNIRS to fMRI with Neural Data Augmentation and Machine Learning Models. *NeurIPS 2020 BabyMind Workshop*.

Kwon, M., Kim, H., Yang, J., Lee, Y., **Hur, J. K.**, Lee, T., & Ahn, W.-Y. (under review). Daily Caffeinated Soda Intake is Associated with Impaired Working Memory and Higher Impulsivity in Children. *bioRxiv*.

MANUSCRIPTS IN PREPARATION

Hur, J. K., Kim, S., & Ahn, W.-Y. (in preparation). Distorted Perception of Low Probability Values in Highly Anxious Individuals.

CONFERENCE PRESENTATIONS

Hur, J. K., Joormann, J., & Rutledge, R. B. (2022). Linguistic Markers of Momentary Mood Dynamics During Risky Decision-Making. *Poster Presented at the Annual Meeting of the Society for NeuroEconomics, Arlington.*

Hur, J. K., Joormann, J., & Rutledge, R. B. (2022). Linguistic Markers of Momentary Mood Dynamics During Risky Decision-Making. *Poster Presented at the Computational Psychiatry Course, New York.*

Hur, J. K. & Ahn, W.-Y. (2021). Elevated Anxiety Disturbs Model-Based Decision-Making under Monetary Loss. *Poster Presented at the Virtual Annual Meeting of the Society of Biological Psychiatry, San Diego.*

Kwon, M., Kim, H., Yang, J., **Hur, J. K.**, Lee, T., & Ahn, W.-Y. (2019). Identifying Behavioral and Neural Predictors of Caffeinated Soda Intake in Childhood Using a Large Database from the ABCD Study. *Poster presented at the Annual Meeting of the Society for Neuroscience, Chicago.*

HONORS & AWARDS

2020	Seoul National University Graduate Research Grant in Social Sciences (\$2,530)	<i>Seoul, Korea</i>
2020	Scholarship for Summer 2020 Study Abroad Program (Harvard Summer School) (\$3,200)	<i>Seoul, Korea</i>
2018	Graduation with Honors (Honors in Management)	<i>St. Louis, MO</i>

TEACHING

Seoul National University	<i>Seoul, Korea</i>
Teaching Assistant	<i>Aug. 2020 - Dec. 2020</i>
<i>Advanced Data Analysis for Brain and Cognitive Sciences: Data Collection and Statistical Analysis for Functional MRI</i>	

Washington University in St. Louis	<i>St. Louis, MO</i>
Teaching Assistant	<i>Jan. 2016 - Dec. 2016</i>
<i>Managerial Statistics</i>	

ACADEMIC SERVICES

Ad-hoc reviewer

- American Journal of Psychiatry (with advisor), British Journal of Psychiatry (with advisor), Computational Psychiatry (with advisor), PLOS Computational Biology (with advisor)

RESEARCH INTERESTS

Depression; Anxiety; Early Life Adversity; Natural Language Processing; Computational Psychiatry; Computational Neuroscience; Reinforcement Learning

SKILLS

Programming	Python (PsychoPy, NumPy, Pandas, Matplotlib, Scikit-Learn), R, MATLAB, Stan, LaTeX
Neuroimaging	SPM12, FSL, FreeSurfer, SPM-fNIRS, HOMER2

REFERENCES

Professor Robb B. Rutledge

Department of Psychology, Yale University

- Email: robb.rutledge@yale.edu

Professor Woo-Young Ahn

Department of Psychology, Seoul National University

- Email: wahn55@snu.ac.kr

Professor Hoon Jin Lee

Department of Psychology, Seoul National University

- Email: hjlee83@snu.ac.kr