

# Jihyun K. Hur

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## EDUCATION

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### Yale University

Ph.D. Student in Psychology

*New Haven, CT*

*Sep. 2023 - Present*

- Advisors: Dr. Jutta Joormann & Dr. Robb B. Rutledge
- Area of Study: Clinical Psychology

### Seoul National University

M.A. in Psychology

*Seoul, Korea*

*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

B.S. in Business Administration

*St. Louis, MO*

*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

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### Rutledge Laboratory

Research Technician

*Yale University*

*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

Research Assistant

*Seoul National University*

*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

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### Center for Student Life and Culture

Counselor (Team Leader)

*Seoul National University*

*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

Counselor

*Seoul, Korea*

*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

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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

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

## CONFERENCE PRESENTATIONS

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**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

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2023	<b>ILJU Academy and Culture Foundation Fellowship (\$120,000)</b>	<i>Seoul, Korea</i>
2020	<b>Seoul National University Graduate Research Grant in Social Sciences (\$2,530)</b>	<i>Seoul, Korea</i>
2020	<b>Scholarship for Summer 2020 Study Abroad Program (Harvard Summer School) (\$3,200)</b>	<i>Seoul, Korea</i>
2018	<b>Graduation with Honors (Honors in Management)</b>	<i>St. Louis, MO</i>

## TEACHING

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

## ACADEMIC SERVICES

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### 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

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

## SKILLS

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

## REFERENCES

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### **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