

# MINA KWON

## CONTACT INFORMATION

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## RESEARCH INTERESTS

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*Computational Clinical Psychology, Substance Use Disorder, Clinical Neuroscience, Psychology of Addiction, Naturalistic fMRI paradigms*

## EDUCATION

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### University of Chicago

Visiting Ph.D. Student

- Advisor: Professor Monica Rosenberg

- Cognition, Attention, & Brain Lab ([CAB Lab](#))

Chicago, IL  
2024.01 ~ present

### Seoul National University

Ph.D. in Psychology

- Advisor: Professor Woo-Young Ahn

- Computational Clinical Science Laboratory ([CCS Lab](#))

- Area of Study: Clinical Psychology

Seoul, Korea  
2021.09 ~ present

### Seoul National University

M.A. in Psychology

- Advisor: Professor Woo-Young Ahn

- Computational Clinical Science Laboratory ([CCS Lab](#))

- Area of Study: Clinical Psychology

Seoul, Korea  
2019.09 ~ 2021.08

### Seoul National University

B.A. in Psychology

- Minor: Brain-Mind-Behavior

Seoul, Korea  
2015.03 ~ 2019.08

### Stony Brook University

Exchange student

StonyBrook, NY  
2017.08 ~ 2017.12

## PUBLICATIONS

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Kwon, M.\* , Choi, H.\* , Park, H., Ahn, W.+ , Jung Y.+ (In press) Neural correlates of model-based behavior in internet gaming disorder and alcohol use disorder, *Journal of Behavioral Addictions*, <https://doi.org/10.1101/2023.09.12.557482>.

- Kwon, M.**, Kim, H., Yang, J., Lee, Y., Hur, J., Lee, T.-H., & Ahn, W.-Y. (2024) Caffeinated soda intake in children is associated with neurobehavioral risk factors for substance misuse. *Substance Use and Misuse*, <https://dx.doi.org/10.1080/10826084.2023.2259471>.
- Kwon, M.**, Lee, S., & Ahn, W.-Y. (2023) Adaptive design optimization as a promising tool for reliable and efficient computational fingerprinting. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, <https://doi.org/10.1016/j.bpsc.2022.12.003>.
- 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*, <https://doi.org/10.1371/journal.pone.0286632>.

## ORAL PRESENTATION

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- Kwon, M.**, Lee, J.-H., Kim, H., Lee, E., Im, J.J., Doh, H., Yang, J., Pitt, M.A., Myung, J.I., Park, H., Joh, H., & Ahn, W.-Y. (2023) Multi-modal prediction of successful smoking cessation: Insights from neural, computational, and ecological momentary assessments data, *presented at the annual meeting of the Society for Neuroscience, Washington, D.C.*
- Kwon, M.\***, Choi, H.\* , Park, H., Ahn, W.+ , Jung Y.+ (2023) Neural correlates of goal-directed control in internet gaming disorder and alcohol use disorder, *presented at 8th International Conference on Behavioral Addictions, Incheon, Korea.*
- Kwon, M.**, Kim, H., Yang, J., Lee, Y., Hur, J., Lee, T.-H., & Ahn, W.-Y. (2023) Caffeinated soda intake in children is associated with neurobehavioral risk factors for substance misuse, *presented at 2023 Annual Conference of the Korean Psychological Association, Suwon, Korea.*
- Kwon, M.\***, Choi, H.\* , Park, H., Ahn, W.+ , Jung Y.+ (2023) Shared and Distinct Neurocognitive Features of Internet Gaming Disorder and Alcohol Use Disorder, *presented at 10th World Congress of Cognitive and Behavioral Therapies, Seoul, Korea.*

## POSTER PRESENTATION

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- Kwon, M.**, Kim, H., Yang, J., Lee, Y., Hur, J., Lee, T., & Ahn, W. (2022) Neuroforecasting exceeds self-reports in predicting cosmetic sales: an fMRI study, *Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego.*
- Kwon, M.**, Kim, H., Yang, J., Lee, Y., Hur, J., Lee, T., & Ahn, W. (2022) Daily Caffeinated Soda Intake in Children is associated With Neurocognitive Vulnerabilities of Substance Misuse and Predicts Greater Alcohol Use in 12 Months, *Poster presented at the Annual Meeting of the Society of Biological Psychiatry, New Orleans.* DOI: <https://doi.org/10.1016/j.biopsych.2022.02.257>
- Kwon, M.**, Lee, J., Yang, J., Chang, S., & Ahn, W. (2021) Identifying unique neurocognitive mechanisms of food addiction and binge eating using longitudinal study design and computational modeling, *Poster presented at Society for Neuroscience, Chicago. (virtual)*
- Park, H., Choi, H., **Kwon, M.**, Ahn, W., & Jung, Y. (2020) Neural Correlates of Goal-Directed Control in Interest Gaming Disorder and Alcohol Use Disorder, *Poster presented at the Annual Meeting of the Society of Biological Psychiatry, New York. (virtual)*
- Kwon, M.**, Kim, H., Yang, J., Hur, J., Lee, T., & Ahn, W. (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.*

Kim, H., Kim, S., **Kwon, M.**, Yang, J., & Ahn, W. (2019) Effects of early life stress and social resources on neurocognitive functions: A large-scale replication study, *Society for Research in Psychopathology, New York*.

## TEACHING

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### **Seoul National University**

Teaching Assistant

*Personality Psychology*

2023.09 ~ 2023.12

### **Seoul National University**

Teaching Assistant

*Advanced data analysis for brain and cognitive sciences*

*: Data collection and statistical analysis for functional MRI*

2022.09 ~ 2022.12

### **Computational Psychiatry Course Zurich**

Teaching Assistant

*Reinforcement Learning using the hBayesDM Package*

2021.09

### **Seoul National University**

Teaching Assistant

*Seminar in Experimental Psychology: Computational Modeling*

2021.03 ~ 2021.08

### **Seoul National University**

Teaching Assistant

*Psychological Science of Addiction*

2021.03 ~ 2021.08

### **Seoul National University**

Teaching Assistant

*Introduction to Psychology*

2020.03 ~ 2020.12

### **Seoul National University**

Teaching Assistant

*Brain-Mind-Behavior*

2019.09 ~ 2020.02

## ACADEMIC SERVICES

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### **Manuscript Review**

- *Cognitive Psychology (with advisor)*
- *Biological Psychiatry: CNNI (with advisor)*
- *American Journal of Public Health (with advisor)*

## EXPERIENCE

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### **Computational Clinical Science Laboratory,**

**Seoul National University**

Research Assistant

*PI: Professor Woo-Young Ahn*

Seoul, Korea

2018.09 ~ 2019.08

### **Clinical Neuroscience Laboratory,**

**Seoul National University**

Research Assistant

*PI: Professor Jeanyoung Chey*

Seoul, Korea

2018.03 ~ 2018.08

Computational Learning & Memory Neuroscience Laboratory,  
Center for Neuroscience Imaging Research  
Internship  
*PI: Research Professor Sungshin Kim*

Seoul, Korea  
2018.07 ~ 2018.08

## CLINICAL TRAINING

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Center for Campus Life and Culture,  
Seoul National University  
Practice Consultants

Seoul, Korea  
2021.01 ~ present

## GRANTS

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Basic Science Research Program  
National Research Foundation of Korea (NRF)

2023.09 ~ 2025.08

SNU Undergraduate Research Grant in Social Science  
Seoul National University

2019.03 ~ 2020.01

## SCHOLARSHIPS AND AWARDS

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Excellence Award in Doctoral Colloquium  
*2023 Annual Conference of the Korean Psychological Association*

2023.08

SNU Graduate Scholarship for Basic Science Research  
*Seoul National University*

2020.03 ~ 2021.02

Graduation with honors (Summa cum laude)  
*Seoul National University*

2019.08

Poster Award at Brain-Mind-Behavior poster presentation  
*Seoul National University*

2018.12

Superior Academic Performance undergraduate scholarship  
*Seoul National University*

2018.08 ~ 2019.08

Superior Academic Performance undergraduate scholarship  
*Seoul National University*

2015.08 ~ 2017.12

## SKILLS

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**Analysis:** Python, R, Stan, Matlab

**Database:** RDBMS (PostgreSQL), Neo4J

**Neuroimaging:** SPM, Nilearn

**Languages:** Korean (Native), English

## REFERENCES

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**Professor Woo-Young Ahn**

Department of Psychology, Seoul National University

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