

Jaeyeong (Jayce) Yang

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Research Interests

Computational modeling ; Cognitive processes ; Bayesian statistics ; Decision-making ; Machine learning ; Deep learning

Education

Seoul National University

PH.D. IN PSYCHOLOGY

- Advisor: Prof. Woo-Young Ahn
- Area of Study: Cognitive Psychology

Seoul, South Korea

March 2020 – Feb 2023 (expected)

Seoul National University

M.A. IN PSYCHOLOGY

- Advisor: Prof. Woo-Young Ahn
- Area of Study: Cognitive Psychology

Seoul, South Korea

March 2018 – February 2020

Seoul National University

B.A. IN PSYCHOLOGY & B.S. IN COMPUTER SCIENCE AND ENGINEERING

Seoul, South Korea

March 2011 – February 2018

Papers

Yang, J., Pitt, M. A., Ahn, W.-Y., & Myung, J. I. (under review). ADOPy: A Python Package for Adaptive Design Optimization. <https://doi.org/10.31234/osf.io/mdu23>.

Park, H., Yang, J., Vassileva, J., & Ahn, W.-Y. (under review). The Exponential Weight Updating Model: A novel computational model for the Balloon Analogue Risk Task. <https://doi.org/10.31234/osf.io/mdu23>.

Oral Presentation

Yang, J. Pitt, M. A., Ahn, W.-Y., & Myung, J. I. (2019). ADOPy: A Python package for Adaptive Design Optimization. *Talk given at the Annual Meeting of the Korean Cognitive Science Society, Seoul, South Korea.*

Yang, J. Pitt, M. A., Ahn, W.-Y., & Myung, J. I. (2019). Optimizing the Design of an Experiment using the ADOPy Package: An Introduction and Tutorial (workshop). *Talk given at the Annual Meeting of the Cognitive Science Society, Montreal, Canada.*

Poster Presentation

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

Yang, J. Pitt, M. A., Ahn, W.-Y., & Myung, J. I. (2019). Design Optimization of Choice under Risk and Ambiguity task using ADOPy. *Poster presented at the Annual Meeting of the Society for Mathematical Psychology, Montreal, Canada.*

Yang, J. Pitt, M. A., Ahn, W.-Y., & Myung, J. I. (2019). ADOPy: Automatic Design Optimization for Experimental Tasks. *Poster presented at the Multi-disciplinary Conference on Reinforcement Learning and Decision Making, Montreal, Canada.*

Kwon, M., Kim, H., Yang, J., & 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 Korean Cognitive Science Society, Seoul, South Korea.*

Yang, J. & Ahn, W.-Y. (2018). Theory- and data-driven characterization of individual differences using computational modeling and a Bayesian hierarchical mixture approach. *Poster presented at the Annual Meeting of the Society for Research in Psychopathology, Indianapolis, Indiana.*

Yang, J. & Ahn, W.-Y. (2018). Application of a Bayesian hierarchical mixture approach to computational psychiatry: Theory- and data-driven characterization of individual differences. *Poster presented at the Annual Meeting of the Society for Mathematical Psychology, Madison, Wisconsin.*

Teaching

Seoul National University

- Teaching Assistant, *Seminar in Experimental Psychology: Computational Modeling* (graduate)

Spring 2018, Spring 2019

Academic Services

Manuscript Review

- Biological Psychiatry (with advisor), eLife (with advisor), Journal of Mathematical Psychology

Skills

Programming	Python (fluent), R (fluent), Stan, C/C++, LaTeX
Neuroimaging	SPM, FSL, Freesurfer, Nipype
Web	HTML & CSS, LESS, SCSS, Django, JavaScript, PHP, JSP
Languages	Korean (Native), English (Fluent)

Experience

GPU Hackathon 2019

Brookhaven National Laboratory

HACKATHON PARTICIPANT

September 23–27, 2019

I participated as a domain scientist and collaborated with computer scientists to predict cognitive & pathological variables in ABCD (Adolescent Brain Cognitive Development) dataset based on functional MRI neuroimaging data, using state-of-the-art deep neural network models.

Quantitative Psychology Laboratory

Seoul National University

RESEARCH ASSISTANT

September 2015 – September 2017

- Advisor: Prof. Cheongtag Kim

Republic of Korea Air Force, Weather Wing

Gyeryong, South Korea

SERVER MANAGER & WEB DEVELOPER (COMPULSORY MILITARY SERVICE)

March 2013 – March 2015

Honors and Awards

- 2019 Best Oral Presentation Award in Annual Meeting of the Korean Cognitive Science Society
- 2016 Work-Study Scholarships in Spring 2016 and Fall 2016
- Eminence Scholarship in Fall 2016
- Kwanak Corporation Scholarship in Spring 2016
- 2015 Kwanak Corporation Scholarship in Fall 2015
- Samsung Convergence Software Course Mentoring Scholarship in Fall 2015
- Jinanlove Scholarship in Spring 2015
- 2012 Work-Study Scholarships in Spring 2012 and Fall 2012

References

Prof. Woo-Young Ahn

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- Email: wahn55@snu.ac.kr
- Website: <https://ccs-lab.github.io>

Prof. Cheongtag Kim

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