

# Jinil Kim

haba6030@snu.ac.kr | +82-10-5264-9444 | Seoul, Korea  
LinkedIn: [linkedin.com/in/jinilkimpotato/](https://www.linkedin.com/in/jinilkimpotato/) | GitHub: [github.com/haba6030](https://github.com/haba6030)

## RESEARCH INTEREST

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Clarifying causal factors of individual difference via Neuro-Decoding and Computational Modeling

## EDUCATION

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**Seoul National University** Seoul, South Korea  
B.A. in Linguistics, B.A. in Psychology, B.S. in Computer Science Mar 2021 – Exp. Feb 2027  
GPA: 4.17 / 4.3 | Major (4.0): Ling./Psych.: 4.00, CS: 3.82

**The University of Hong Kong** Hong Kong SAR  
Summer Research Program, Faculty of Psychology Jun 2025 – Aug 2025

## RESEARCH EXPERIENCE

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**Mental health, Internet, Neuroscience & Decision-making Lab** University of Hong Kong  
Undergraduate Researcher (Advisor: Prof. Yuan-Wei Yao) Jun 2025 – Aug 2025

- Developed and compared hierarchical Bayesian RL-DDM variants to model emotion and reward prediction errors in social decision-making.
- Introduced a time-varying Drift Diffusion Model (tDDM) to study how emotion-based and reward-based prediction errors dynamically shape social decision-making

**Computational Clinical Science Laboratory** Seoul National University  
Undergraduate RA (Advisor: Dr. Woo-Young Ahn) Apr – Jun 2025; Sep 2025 –

- Implemented RL-based behavioral models to dissociate stable trait parameters from dynamic state-dependent fluctuations.
- Contributed to a multimodal project integrating EEG, behavioral, and app-based digital phenotype data for mental health risk modeling.

## ONGOING PROJECTS

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**Development of a Personalized Color Vision Correction Display Filter Using fMRI-Based Neural Responses and Deep Learning**  
Project Lead Apr 2025 – Present

- Applied ROI-based decoding, forward encoding models, and Procrustes alignment to identify individual-specific neural color spaces.
- Designed the full research pipeline: experiment design, data preprocessing, neural modeling, and optimization-based filter generation.
- Funded by SNU Undergraduate Research Grant (KRW 5,000,000).

**Time-Varying Drift Diffusion Modeling of Emotion and Reward in Depression**  
Project Lead Jun 2025 – Present

- Introduced a time-varying Drift Diffusion Model (tDDM) to study how emotion-based and reward-based prediction errors dynamically shape social decision-making

## POSTER PRESENTATIONS

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- Kim, Jinil, Yao, Y. W. (Aug 2025). *Why Do Depressed Individuals Punish?: A Computational Investigation of Emotion Learning and Bias in Maladaptive Social Behavior*. Poster presented at the Summer Research Program Poster Session, University of Hong Kong.

## HONORS & AWARDS

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**Humanity 100 Years Undergraduate Scholarship**

Amount: KRW 17,000,000 (USD 12,500)

Korea Student Aid  
Foundation

Mar 2025 – Jul 2026

**The University of Hong Kong Foundation for Educational Development and Research Scholarship**

Amount: HKD 10,000 (USD 1,284)

The University of Hong  
Kong

Jun 2025 – Aug 2025

**Grand prize in SNU Liberal Arts Competition**

Title: *Interdisciplinary exploration with chatbots*

Seoul National University  
Jul 2023

**Megastudy Student Achievement Scholarship**

Amount: KRW 3,000,000 (USD 2,000)

MegaStudy  
Mar 2021 – Mar 2022

**Superior Academic Performance scholarship**

Seoul National University  
Mar 2022, 2023; Sep 2022

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**COMPETITIONS****Ambient AI Competition**

Project: *Fashion Recommendation AI*

Seoul National University  
Dec 2022 – Jan 2022

- Vectorized fashion dataset and extracted feature from image input by using VGG16 model.
- Finetuned MLP Model for recommendation

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**SKILLS**

**Computational Modeling:** Bayesian hierarchical models, RL, DDM, RLDDM, mixed-effects models

**Neuroimaging:** fMRI preprocessing, ROI-based decoding, forward encoding models, EEG connectivity analysis

**Programming:** Python, R, Stan, C++, Java

**ML & Data:** Deep learning (MLP, CNN), high-dimensional time-series, multimodal data integration

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**LANGUAGES**

Korean (Native), English (Full Professional Proficiency), French (Beginner)