

JaeHeon Lee

Pronounce "Jaeheon Lee" as "Jay-hun Lee"

Resume Summary Motivated undergraduate student at KAIST with a passion for computational neuroscience. I am keen on researching how information is represented neurally, aiming to unravel the mechanisms of encoding and decoding information in the brain. **Research Experience** Eh) 2020-8-**Reinforcement Learning project** 2020-11 AlBrain Lab, Sangwan Lee, Haram Joo · Began self-study in deep learning and reinforcement learning • Implemented a strategy code using Deep Q-learning algorithm to identify and counteract opponents' strategies in the prisoner's dilemma theme with Axelrod repository 2020-12-**Experimental Laboratory Internship** 2021-2 Systems Neuro Lab, Min Whan Jung, Jonghan Shin · Learned about behavior experiments collecting electrophysiological data from trained rats' hippocampal pyramidal neurons • Read and presented related research papers, and supported Matlab cell cutting analysis 2021-6fMRI-based Creative Research Project 2021-12 AlBrain Lab, Sangwan Lee, Yoondo Sung; link • Conducted creative research project inspired by the biologically plausible NN topic and prior research in AIBrain lab • Diverged from traditional studies by employing Multi-voxel pattern pattern analysis, 'searchlight' analysis and svm-based regression, enabling the observation and analysis of error signal propagation from a spatiotemporal perspective in a whole brain 2022-3-Data Scientists in histopathology 2024-2 Deep Bio Inc., Hyeyoon Chang, Tae-Yeong Kwak; link Korea's mandatory Industrial Technical Personnel program • Task-oriented research aimed at elucidating the prognostic efficacy of AI products in prostate adenocarcinoma • Research on analyzing the morphology exhibited in various cancer types' histopathological images using deep learning • Developing various algorithms for image quantification and enhancing user convenience; 2 Patents (1 Granted, 1 Pending) 2023-10-**Computational Cognitive Neuroscience Lab** present CoCo Lab, Yul HR Kang, Jeroen Olieslagers, Jeong Jae Park Developing cognitive game with HTML/JS Education 2019-3-KAIST, Korea Advanced Institute of Science and Technology 2021-12. • B.S. in Biology, AI designated major, NYU minor program in EE 2024-3-• GPA: 3.88/4.30 (95.80), Major GPA: 4.03/4.30 present

Personal Info

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Biology

General Biology A0, Microbiology A0, Biochemistry I, II A0, A+, Molecular Biology P, Cell Biology B+, Neuroscience I, II A0, A-, Neuronal Control of Behavior A-, Genetics P, Biochemistry Experiment A0, Cell and Biological Engineering A+

Computer Science, AI

Introduction to Programming A+, Data Structure A+, Discrete Mathematics P, Statistical Machine Learning A+, Brain-Inspired Machine Intelligence A0, Introduction to Algorithms P, (CS231n in stanford), Data-Driven Decision Making and Control A0

Mathematics

Calculus I, II B+, P, Introduction to Linear Algebra A- (Real Analysis, Linear Algebra, Abstract Algebra, Topology, Measure Theory, Probabil -istic Theory, Differential Geometry with @enjoyingmath9346, notes are in velog.io/@jaeheon-lee/series/Math)

Electrical Engineering

Circuit Theory A+, Signals and Systems A+



Python, Matlab, Java, JS, HTML pytorch, matplotlib, keras, pandas, numpy, pyro, JsPsych

Den Languages

Korean (native) English (fluent) - TOEFL 92 Chinese (basic) - HSK 4