Shichang Ke

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EDUCATION

Johns Hopkins University Baltimore
Bachelor of Science Expected June 2023

- Majors: Neuroscience & Computer Science
- Minor: History & Applied Mathematics and Statistics
- GPA: 3.74/4.00, Dean's List for 5 finished semesters
- Relevant coursework: Machine Learning, Computer Networks, Data Structures, Automata & Computation Theory, Computer System Fundamentals

SKILLS

- Programming Languages: HTML, C/C++, Python, Java, JavaScript, CSS, Matlab, Assembly
- Tools & Frameworks: React, Django, Scikit-Learn, Pytorch, Scipy, Tensorflow, Matplotlib, GIT, Jupyter Notebook, Wireshark

PROJECTS

MACHINE LEARNING: LIVE TRANSLATION OF SIGN LANGUAGE March 2022 - Present

- Built classifiers, using python, for images of various users and backgrounds for American Sign Language letters
- Improved model so it can preprocess raw videos of people making ASL alphabet gestures

DEEP LEARNING PIPELINE FOR NEURON DETECTION September 2021 - January 2022

- Designed a deep learning pipeline, using Matlab, for automatic analysis of neuronal activities in Ca+ imaging data
- Included an automatic image preprocessing step by using Matlab and ImageJ
- Experimented on different parameters to finetone pipeline for data of mice brain activity recordings

WORK EXPERIENCE

JOHNS HOPKINS UNIVERSITY Baltimore
Research Assistant - The Mysore Lab September 2021 - Present

- Examined Fluorescence imaging data, fine-tuned pipeline for lab's data
- Conducted mice behavioral training on visual-spatial attention

JOHNS HOPKINS UNIVERSITY Baltimore
Research Assistant - Neuroscience Department February 2020 - October 2020

- Carried out Diffusion Tensor Imaging (DTI) preprocessing and analysis through Matlab, studied white matter tracts of patients with aphasia

COMMUNITY INVOLVEMENT

MEDHACKS
Promo March 2022 - Present

- Created logos and posters using Adobe Photoshop & Illustrate