JIAYI (JOEY) LI

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EDUCATION

New York University (NYU) *Sep. 2022 - Dec. 2024 (expected)*
M.S. in Computer Science (Courant Institute)
GPA: 3.73/4.0
Related courses: Cloud Machine Learning, Algorithms, GPUs Programming.

Beijing University of Technology (BJUT) *Sep. 2018 - June 2022*
B.E. in Software Engineering
GPA: 3.8/4.0
Related courses: Digital image processing, Data Mining.

RESEARCH INTERESTS

My research ambition is to explore the potential of machine-learning techniques based on MRI to discover brain dynamics, connectomes and the underlying mechanisms of various brain disorders, including intracranial hemorrhage, stroke, and neurodegenerative diseases. I am also interested in developing and validating multi-modal machine learning systems[1][2] and simulation systems that can conduct diagnoses and predictions, enabling personalized treatment plans.

RESEARCH EXPERIENCE

Research Associate Jan. 2024 - Present
Supervisors: Prof. Yulin Ge, and Dr. Chenyang Li NYU Langone Radiology

- Analyzed morphemic changes in aging brain using artifical networks.
- Processed T1-weighted MRI dataset (n=675) with Freesurfer.
- Constructed and analyzed morphometric similarity networks.
- Visualized findings with various graphical methods.

Machine Learning Researcher Intern Aug. 2021 - Nov. 2021
EEG-Based Dizziness Detection Nao Lu Tech.

- Designed EEG data collection experiments.
- Developed a stacking machine learning model for dizziness detection.
- Collaborated on creating a full ML workflow.
- Reproduced over 10 ensemble machine learning methods.
- Deployed the model to the hardware(safety helmet).

PUBLICATIONS

[1] M. Gao and **Li, Jiayi**, "A chinese short text classification method based on bert sentence embedding integrating external statistical features," in *2022 4th International Conference on Machine Learning, Big Data and Business Intelligence (MLBDBI)*, IEEE, 2022, pp. 78–83.

[2] **Li, Jiayi**, Z. Liang, and C. Xiao, "Transfer learning performance analysis for VGG16 in hurricane damage building classification," in *2021 2nd International Conference on Big Data & Artificial Intelligence & Software Engineering (ICBASE)*, IEEE, 2021, pp. 177–184.

ACHIEVEMENTS/CERTIFICATIONS

Getting Started with Accelerated Computing in CUDA C/C++, awarded by Nvidia *Spring 2024*
Merit Student Scholarship, awarded by BJUT *Winter 2021*
Innovation Scholarship, awarded by BJUT *Fall 2021*

SKILLS/HOBBIES

Programming Languages Python, C/C++, CUDA, R, Matlab
Machine Learning Tools Pytorch, Tensorflow, Sklearn, Pandas, Numpy
Hobbies Driving with loud music, writing, hiking