(781) 775-6764 | panyulu2000@gmail.com | vulupan@cs.unc.edu | github.com/yulupan00 | linkedin.com/in/yulu-pan-00

EDUCATION

University of North Carolina at Chapel Hill Chapel Hill, NC Master of Science Aug 2023 - Dec 2024 Major: Computer Science **University of North Carolina at Chapel Hill** Chapel Hill, NC Aug 2021- May 2023 Bachelor of Science Major: Computer Science, Mathematics **GPA:** 3.74/4.00 **Brandeis University** Waltham, MA Bachelor of Science Aug 2019 - May 2021

RESEARCH EXPERIENCE

Major: Computer Science

University of North Carolina at Chapel Hill

Research Assistant, Mentored by Soumyadip Sengupta

Chapel Hill, NC

GPA: 3.94/4.00

Aug 2022 – May 2023

- Generated datasets to explore preservation of r-PPG signal in motion transfer between videos
- Utilized facial expression analysis tools to category and visualize the data
- Created large training datasets for predicting the best additional image angles improve 3D reconstruction quality
- Designed and trained a reinforcement learning model for best next angle prediction in 3D reconstruction

Nanjing University Natural Language Processing Lab

Research Assistant

Nanjing, China

June 2021 – Aug 2021

- Extracted and cleaned policy data with python web scraping
- Trained the data with natural language processing models to perform categorize task and visualized with knowledge graph

Brandeis Brain Computer Interface Club

Waltham, MA

Research Assistant

Dec 2020 - May 2021

- Used Machine Learning algorithms such as deep CNN and clustering to analyze EEG signals for human behavior patterns
- Conducted literature review, data preprocessing and analysis in Matlab

TEACHING EXPERIENCE

Undergraduate Learning Assistant

University of North Carolina at Chapel Hill

Chapel Hill, NC

Aug 2022 – May 2023

 Assisted professors with holding office hours, exams write up and grading on topics such as data structure, code organization for large project, industry standard developing tools in Java

Brandeis University Waltham, MA

Teaching Assistant

June 2020 - May 2021

- Created test cases for assignments and held office hours for data structure and algorithm analysis class in Java
- Designed and held weekly recitations for course material practice and answering students' questions

PROFESSIONAL EXPERIENCE

Mobile APP: Branda Waltham, MA

Software Engineer

March 2020 - May 2021

- Branda is a mobile App working as a two-sided platform to connect Brandeis students with essential campus services
- Added features such as dark mode, COVID information page to the app
- Rewrote the backend platform with React and Next. is for better maintenance and framework

Publications

Yin, JianJian, Zheng, Zhichao, Pan, Yulu, Gu, Yanhui, and Chen, Yi, Semi-Supervised Semantic Segmentation with Multi-Reliability and Multi-Level Feature Augmentation. Expert Systems with Applications, Volume 233, 15 December 2023, 120973

Akshay Paruchuri, Xin Liu, Yulu Pan, Shwetak Patel, Daniel McDuff, and Soumyadip Sengupta. Motion Matters: Neural Motion Transfer for Better Camera Physiological Sensing. arXiv preprint arXiv:2303.12059.

ACTIVITIES

Project Leader

Brandeis VALE Project

Waltham, MA

Jan 2020 - May 2021

 Scanned anthropology artifacts and reconstructed them as 3D models and built a 3D interactive VR museum with Unity engine to display the artifacts

SKILLS

Software: Java, Python, MATLAB, Unity/C#, Machine Learning (Pytorch)

Languages: English (*Proficient*), Mandarin (*Native*)