Chris Zhuang

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EDUCATION

Bachelor of Science, Electrical and Computer Engineering, Mathematics, Dec/2023
The University of Texas at Austin
Overall GPA: 3.64/4.00

Relevant Coursework: Data Science Lab and Principles, Brain Computer Interfaces, Neural Engineering, Genomic Signal Processing and Data Science, Real-Time Digital Signal Processing Lab, Digital Image Processing

WORK EXPERIENCE

Undergraduate Researcher, HST-Wellman Biomedical Optics REU, 06/2023 – 08/2023

- Use OCT to image nerves and label dataset for computer vision.
- Apply new computer vision and imaging algorithms to do object segmentation on nerves.
- Analyze the results from object segmentation for OCT.

Undergraduate Researcher, Computational Biology REU, 05/2022 - 07/2022

- Implemented transformers and added parameters to neural network to predict covid cases.
- Presented research to REU faculty and participants.
- Communicated with professor to complete research.

Undergraduate Researcher, University of Texas at Austin, 08/2022 – 12/2022

- Preprocess EEG data by filtering in gamma bands, using Fourier Transform, and calculating PSD.
- Apply machine learning methods to try to predict spikes in the filtered data.
- Analyze the results and discover reasons for data trends.

Undergraduate Course Assistant, University of Texas at Austin, 01/2023– 5/2023

- Held office hours and calculus lab sessions to assist students.
- Help lead discussion sessions to review concepts for lectures.
- Communicated with the professor and the rest of the teaching team.

ECE Undergraduate Teaching Assistant, University of Texas at Austin, 08/2021 - 12/2021

- Held office hours to assist students in probability.
- Coordinated with the teaching team.
- Assisted professor in grading and checking quizzes.

SKILLS

Machine Learning implementation: Python, MATLAB
Algorithm development: MATLAB, Java, Python, C++
High-Level languages: Python, C, C++
Assembly languages: LC3, ARM Cortex-M4F

ACCOMPLISHMENTS

Charles W. and Margaret A. Tolbert Endowed Scholarships and Fellowships in ECE, 2023
Active Member, Institute of Electrical and Electronic Engineers (IEEE), 2021–Present
Active Member, Biomedical Engineering Society (BMES), 2020-Present