JUSTIN NGUYEN

Milpitas, CA & Davis, CA | (408) 705-0611 | justin.nguyen0611@gmail.com | https://github.com/jstnguyen

ACADEMICS

University of California, Davis **Davis, CA**
Computational Cognitive Science B.S., Computer Science Minor ***09/2021 - 06/2024***

- Cumulative GPA: 3.85, Dean's Honor List
- Undergraduate Coursework: Machine Learning, Artificial Intelligence, Algorithm Design & Analysis, Statistical Data Science 1 & 2, Theory of Computation, Computational Neuroscience, Computational Social Science, Data Structures in C, Discrete Mathematics, Calculus, Linear Algebra, MATLAB
- Graduate Coursework: Cognitive Psychology, Neural Signals & Machine Learning Tools for Neural Data

SKILLS & CERTIFICATIONS

- **Languages**: English, Spanish, Vietnamese
- **Technical**: Python (PyTorch, TensorFlow, pandas, sckikit-learn), R (ggplot, dyplr), C, C++, C#, Docker, Web Scraping, Social Network Analysis: Gephi, Agent Based Modeling: NetLogo, Microsoft Office
- **Certifications:** Foundational C# with Microsoft, Social and Behavioral Research with CITI Program

WORK & VOLUNTEER EXPERIENCES

Neuroscience Research Assistant – Dynamic Memory Lab, Davis, CA ***04/2022 – Present***

- Researching the impact of generative AI tools on user experience and student learning with PsychoPy.
- Conducted in-depth research on the entorhinal cortex and limbic systems and their effects on spatial inferences, relational memory, and cognitive mapping, under the guidance of Dr. Charan Ranganath.

NeuralStorm Trainee - UCD Center for Neuroengineering & Medicine, Davis, CA ***01/2024- Present***

- Develop machine learning programs to analyze neural data including iEEG recordings with Python in Juypter Notebooks exploring the neural representations of decision-making and high frequency activity.
- Perform neural decoding and encoding through dimensionality reduction (PCA, LDS) and classifiers (PSTH, DTW) to find the optimal recording window size, time bin size, and frequency power bands.

Project Manager - Diabetes Predictive Model Project, Davis, CA ***09/2023 - 01/2024***

- Managed a team of 5 to develop a Diabetes Predictive Model based on EHRs implementing Logistic Regression, Naive Bayes, and Random Forest algorithms using Python (pandas, scikit-learn, matplotlib).
- Developed and imported this model into an HTML frontend and presented a scholarly paper linked at this GitHub repository: https://github.com/jstnguyen/DiabetesPredictiveModel

Vice President of Recruitment – Sigma Phi Epsilon, Davis, CA ***09/2022 – 01/2024***

- Spearheaded and directed a committee comprising 12 members, orchestrating the seamless execution of the Balanced Man Scholarship awarding $1000 scholarships between 20+ deserving candidates quarterly.
- Developed visually appealing marketing content using Canva, Adobe Creative Cloud, and MS Clipchamp.
- Attained distinction as 1 of only 18 selected from 12,000 students as a Tragos Quest to Greece Scholar.

Computer Science Tutor – University of California, Davis, Davis, CA ***09/2022 – 07/2023***

- Guided and mentored 40 undergraduate students in developing a foundational understanding of Python programming techniques and Object-Oriented Programming principles.
- Tailored mentoring sessions to cater to diverse learning styles, fostering an inclusive environment that allowed every student to excel in their programming skills.

Commercial Real Estate Intern – Brookfield Properties, Los Angeles, CA ***05/2022 – 08/2022***

- Employed advanced data analytics tools to synthesize market research data for the Los Angeles area, facilitating a nuanced understanding of local market trends and dynamics.
- Developed compelling business proposals utilizing analytical insights and data visualization techniques.