TUAN NGUYEN

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EDUCATION

Johns Hopkins University   **Baltimore, MD**
Master of Science in Biotechnology   December 2023
Michigan State University   **East Lansing, MI**
Bachelor of Science in Computational Neuroscience   May 2022

Awards: Dean's List, Spartan Volunteer Service Award (2019-2022), MSUFCU Unpaid Intern Award (2022), Fred and Lena Meijer Scholarship (2018-2022), Larry D. Fowler Endowment (2018-2022), Michigan Competitive Scholarship (2018)

EXPERIENCES

Exposure Science Lab   **East Lansing, MI**
Research Assistant, 40 hours per week   May 2022 – Present
- Wrote **Python** scripts for data pre-processing, analysis, and visualization for lab projects, increasing lab efficiency.
- Performed data analysis, normalization, and visualization for presentation at conferences using **Excel** and **Python with Pandas, Numpy, and Matplotlib**.
- Created and maintained **GitHub** repository for lab scripts.
- Collaborated with diverse stakeholders, including health department staff and healthcare workers, to drive project recruitment efforts.
- Analyzed samples via Inductively Coupled Plasma Mass Spectrometry (ICPMS) for use in publications and posters.
- Collected samples in the field including, but not limited to dust, soil, and blood samples.
- Developed standard operating procedures (SOPs) for preparation, digestion, and analysis of samples.

Burt Lab   **East Lansing, MI**
Research Assistant, 15 hours per week   May 2021 – December 2022
- Utilized qualitative coding to measure behaviors in study participants.
- Entered data into and managed **Excel** workbooks containing behavioral data.
- Researched the relationship between in-person aggression and cyberaggression through analysis of data from a chat version of the Taylor aggression paradigm (TAP-chat).
- Performed statistical analysis (t-tests, Pearson correlations) and data visualization for presentation at conferences using **Excel** and **R**.

Family Counseling and Psychiatry   **East Lansing, MI**
Clinic Intern, 15 hours per week   August 2021 – May 2022
- Administered behavioral health assessments to families.
- Entered and cleaned large quantities of assessment data in **SPSS**.
- Served as liaison between clinic staff, doctors, and internship supervisors for patient progress.

Apple   **Cupertino, CA (Remote)**
Apple Support College Advisor, 30 hours per week   April 2021 – August 2021
- Worked with customers to diagnose issues with the full line of Apple devices.
- Scheduled hardware repairs and in-person consultations for customers at Apple stores.
- Communicated with team members and managers about new/unresolved issues.

RESEARCH & PROJECTS

The Interface for Metagenomic Analysis and Graphical Examination (IMAGE)
- On-going project to develop a desktop application built on the Electron.js framework using **HTML/CSS/JavaScript/Python**.
- Focused on bundling metagenomic analysis tools and visualizations into a user-friendly app to address the software hurdle that novice biologists may face when searching for analysis tools.

Social and Physical Aggression as Predictors of Cyberaggression
- Research project that focused on characterizing how in-person aggression translated into cyberaggression.

- Analyzed data in **Excel** and was presented at the University Undergraduate Research and Arts Forum (UURAF).

Lead Exposure from Leaded Avgas in Michigan Communities
- Research project that focused on investigating the spatial distribution of leaded fuel from small aviation aircraft.
- Collected soil samples from local airports in Michigan, and analyzed via ICP-MS.
- Analyzed data in **Excel** and was presented at the Mid-Michigan Symposium for Undergraduate Research Experiences (MID-SURE).

The Relationship between Resting Heart Rate and Breath-hold Time
- Research project that investigated how resting heart rate affects an individual's ability to hold their breath.
- Analyzed data in **R**.

SKILLS

Programming Languages and Skills: Python, R, JavaScript, HTML, CSS, SQL/MySQL

Other: IDEs (RStudio, Anaconda, VSCode), Docker, Excel, Figma, Git/GitHub, Linux (Ubuntu), Electron.js