



Megan Tran

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WORK EXPERIENCE

Research Assistant, Templeton Research Group, Tampa, FL May 2024 – Present

- Execute machine learning algorithms including PCA, Random Forest, and Shapley values to investigate relationships between features in concussion dataset.
- Applied data cleaning and preprocessing methods using sci-kit learn for accurate data analysis with a graduate student.

Undergraduate Research Assistant, van der Vaart Research Group, Tampa, FL Sep 2023 – May 2024

- Implemented data analysis techniques on DNA simulations using Shell and Python.
- Identified trends in 6 base-step parameters that caused uracil-DNA flipping from collected datasets.
- Presented findings at weekly meetings and 2 academic conferences.

Chemistry and Calculus Tutor, University of South Florida, Tampa, FL Sep 2022 – May 2024

- Utilized new teaching strategies to help 20+ students understand general chemistry, organic chemistry, and calculus topics.
- Collaborated with 5 other tutors in both clearly explaining concepts to students and providing a positive environment for learning.

PROJECTS

Principal Component Analysis on Malaria Dataset, USF Codeathon Mar 2023

- Preprocessed malaria dataset with 3,346 severe malaria cases to then attempt PCA analysis for the determination of specific genotypes of malaria-infected patients.

EDUCATION

University of South Florida

Pathway to Computing Graduate Certificate

Anticipated May 2025

University of South Florida

Bachelor of Science in Biomedical Sciences and Psychology

May 2024

Cumulative GPA: 3.94

SKILLS

Programming:

Python, SQL, HTML, CSS, C++, R, Shell

Technologies/Environments:

Visual Studio Code, Jupyter Notebook,
Unix/Linux, Git Bash

LEADERSHIP AND AFFILIATIONS

- **Member**, Toastmasters, South Tampa Chapter Sep 2022 – Present
- **Member**, Girls Who Code, USF Feb 2023 – Present
- **Treasurer**, Toastmasters, USF Chapter Nov 2021 – Aug 2022

HONORS AND AWARDS

- USF Honors Scholarship Aug 2022
- USF Director's Award Aug 2020
- Florida Bright Futures Scholarship Aug 2020