



# 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 Sept. 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 Sept. 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, *summa cum laude*

May 2024

Cumulative GPA: 3.94

Relevant Coursework: Differential Equations, Engineering Calculus 3, Physics 1 + Lab

## 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 Sept. 2022 – Present
- **Member**, Girls Who Code, USF Feb. 2023 – Present
- **Treasurer**, Toastmasters, USF Chapter Nov. 2021 – Aug. 2022

## CERTIFICATIONS AND AWARDS

- LinkedIn Learning – Learning Python Jan. 2023 - Present
- USF Honors Scholarship Recipient Aug. 2022
- USF Director's Award Scholarship Recipient Aug. 2020
- Florida Bright Futures Scholarship Recipient Aug. 2020