

# Michael Ortega

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## Education

### Georgia Institute of Technology

B.S. in Computer Science

- 4.0 GPA | Threads with focus in Artificial Intelligence and Theory

Atlanta, GA

Anticipated Graduation: Dec 2024

### Broward College

Associate of Arts

- Graduated Summa Cum Laude

Weston, FL

May 2019 - June 2022

### Somerset Academy Charter

High School

- Graduated salutatorian | 4.0 GPA

Pembroke Pines, FL

Aug 2018 - June 2022

## Work Experience

### Cypress Street Pint & Plate

Servers' Assistant & To-Go Specialist / Barback

- Supporting servers and bartenders by clearing tables, assisting guests, and restocking supplies in a fast-paced environment.
- Assisting bartenders with opening and closing the bar, servicing guests, and managing orders over the phone, online, and at the bar.
- Soft Skills:** Teamwork, Time Management, Communication, Customer Service.

Atlanta, GA

March 2023 - Present

### Mathnasium

Lead Instructor (02/21 - 08/22), Instructor (07/20 - 02/21)

- Trained new instructors and oversaw overall instructor training and growth (approx. 20 instructors).
- Aided in the enrollment and marketing processes by holding 4-5 monthly parent consults and running 4 marketing events.
- Monitored and updated students' curriculum by curating specific topics for customized curriculum, communicating student progress to parents. (approx. 100 students)
- Privately tutored Algebra I and II, Geometry, Pre-Calculus, Calculus I, SAT/ACT Prep, and other higher-level Algebra (approx. 20 students).
- Aided in the development of integral math skills for middle and high school students.
- Soft Skills:** Teamwork, Time Management, Communication, Team Management.

Pembroke Pines, FL

Jul 2020 - Aug 2022

## Research Experience & Projects

### Classifying Cichlid Behavior

McGrath Lab, Georgia Tech School of Biological Sciences

- Creating data set by annotating 50 extracted frames from distinct videos of 38 behavioral and control tanks alongside 3 team members.
- Training and optimizing DeepLabCut model on data to mark and predict body parts and movement for novel videos using hyperparameter tuning and data augmentation.
- Developing a neural network that uses DeepLabCut markers and tracking, YOLO detections, and kernel convolution to classify cichlid behavior.
- Technical Skills:** Python (TensorFlow, PyTorch, NumPy, Pandas, Matplotlib), Statistical Analysis, DeepLabCut, Linux CLI.
- Soft Skills:** Formal documentation, Time Management, Presentation Skills, Experimental Design.

Atlanta, GA

June 2023 - Present

### Detecting Parkinson's Disease

Big Data Big Impact Club, Georgia Tech

- Analysing data set of biomedical voice measurements from 219 patients and results of cognitive assessments from 2300 patients to predict Parkinson's in new patients.
- Training and altering machine learning model using SVM and XGBoost algorithms to achieve 95% certainty in predictions using biomedical voice measurements.
- Utilizing computer vision techniques to recognize patterns in hand tremors.
- Technical Skills:** Python (TensorFlow, NumPy, Pandas, Plotly, Matplotlib, XGboost, Seaborn), Google Colab.
- Soft Skills:** Time Management, Teamwork.

Atlanta, GA

Sep 2022 - May 2023

## Skills

**Programming** Python (BeautifulSoup, TensorFlow, Selenium, Requests, Pandas, etc.), Java, C, HTML/CSS, TeX.

**Miscellaneous** Windows, Shell(Bash/Zsh), LaTeX, Microsoft Office, Ableton Live, Adobe Photoshop.

**Soft Skills** Time Management, Teamwork, Problem-solving, Documentation.