Ava Thompson

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EDUCATION

University of Miami — Coral Gables, FL
Bachelor of Science in Marine Biology and Data Science — Aug 2026 – May 2030
Relevant Coursework: Marine Ecosystems, Data Visualization, Machine Learning, Oceanography, Statistics, GIS

GPA: 3.79/4.0

TECHNICAL SKILLS

Languages and Technologies: Python, R, MATLAB, SQL, JavaScript, TensorFlow, ArcGIS
Tools and Frameworks: Jupyter Notebook, Git, Docker, AWS, Tableau, QGIS

PROJECTS

Coral Reef Health Monitoring System | *Python, TensorFlow, GIS*
- Developed an AI-powered system to monitor coral reef health using satellite imagery
- Achieved 90% accuracy in detecting coral bleaching events
- Created interactive dashboards for marine conservation organizations

Ocean Plastic Detection AI | *Python, OpenCV, Flask*
- Built a machine learning model to detect plastic waste in ocean images
- Deployed the model as a web application for real-time analysis
- Partnered with NGOs to integrate the tool into cleanup initiatives

Marine Species Tracker | *R, Shiny, SQLite*
- Designed a platform to track endangered marine species using geospatial data
- Implemented predictive models for species migration patterns
- Published findings in a student-led marine biology journal

RESEARCH EXPERIENCE

Research Assistant - Marine Ecology Lab — Jan 2028 – May 2028
University of Miami — *Coral Gables, FL*
- Studied the impact of climate change on coral reef ecosystems
- Developed computational models to predict reef resilience
- Collaborated with researchers to publish findings in a peer-reviewed journal

WORK EXPERIENCE

Data Science Intern — Jun 2029 – Aug 2029
National Oceanic and Atmospheric Administration (NOAA) — *Miami, FL*
- Analyzed oceanographic data to predict hurricane intensity
- Developed machine learning models for sea level rise prediction
- Presented findings to NOAA scientists and policymakers

Marine Conservation Intern — May 2028 – Aug 2028
The Nature Conservancy — *Key West, FL*
- Assisted in developing conservation strategies for marine protected areas
- Conducted field research on coral reef restoration techniques
- Presented recommendations to conservation stakeholders