

Patrick Cocola

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EDUCATION

Stockton University

Bachelors of Science in Applied Physics and minor in Mathematics

Galloway, NJ

May 2019

- GPA : 3.53
- Society of Physics Students – Vice President

Masters in Data Science and Strategic Analytics

August 2020

ACADEMIC PROJECTS

Regional Ocean Modeling System

December 2017 - Present

- The regional ocean modeling system was used to simulate the impact that storms have on a given location. The effect of Super storm Sandy, on the area surrounding the Stockton Marine Field Station, was simulated to see the effects on the surrounding area

EXPERIENCE

Federal Aviation Administration

Galloway, NJ

NARTP Intern

June 2018 - August 2018

- UAS Data Collection and Analysis Project : Created MATLAB scripts that analyze C2 link integrity, Flight Path accuracy, Well Clear Violations, and Engine Performance of a given UAS and its operation.
- UAS/NIEC Data Center Management : Developed an in-depth database of how all the drone simulators are networked together in the laboratory area.

University of California Santa Cruz / John Hopkins CTY

Santa Cruz, CA

Teaching Assistant

June 2019 - August 2019

- Helped the instructor of The Physics of Sports course teach students from around the world. In charge of creating a spreadsheet to keep in depth notes on how each student performed throughout the course. Tasked with teaching for alone for 8 hours a week.

Stockton University

Galloway, NJ

Teaching Assistant

September 2017 - December 2018

- The responsibilities of a course manager, who oversees attendance and grades for a class of over 200 students. To ensure demonstrations are up to date and are on topic to the current class being taught.

Laboratory Technician

September 2017 - Current

- To ensure that labs are set up correctly to help fix if any labs are broken or misplaced by the time labs begin.

Programming Experience

Python

- Experience coding and using Python for data analysis

MATLAB

- Experience using MATLAB to create visual interpretations of data to gain a better understanding of what is happening in a given situation