Tim Christy

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Education

2018-2019 **Coursework completed toward Doctorate in Atmospheric Science** (GPA : 3.75/4)
School of Marine and Atmospheric Sciences (SoMAS), Stony Brook University

2018 **Master of Science in Mechanical Engineering** (GPA : 3.8/4)
Tandon School of Engineering, New York University

2016 **Bachelor of Science in Physics** (GPA : 3.5/4 ; Major GPA : 3.9/4)
University of Nevada, Reno

Experience

June 2019 – Sept 2019 **Data Science Fellow, Flatiron School, Washington D.C. Campus**

- Furthered skills in Python and completed several projects under the guidance of experienced data scientists.
- Fellowship included a tuition-free 4-month coding bootcamp in which I learned various statistical concepts for data analysis, data visualization, machine learning techniques, SQL databases, web scraping, APIs, bash scripting, Amazon Web Services, Google Cloud Platform, and much more.

May 2018 – May 2019 **Graduate Student Researcher, Flax Pond Marine Research Observatory at SOMAS , Stony Brook University**

Worked in a lab as a graduate student (PhD) monitoring air pollution over Long Island, NY

- Maintained and troubleshot laboratory equipment (mass spectrometer, sensors, computers, pumps)
- Gathered and cleaned data from various instruments for analysis
- Performed statistical analysis on data weekly to monitor various compounds in the air and to ensure calibration of equipment
- All analysis performed using Python and/or Microsoft Excel
- Presented all pertinent results to lab group on a semi-weekly basis

Aug 2018 – Dec 2018 **Lab Instructor (TA), Chemistry Department, Stony Brook University**

- Taught weekly labs covering various experiments for introductory chemistry course to approximately 30 students
- Graded lab assignments and held office hours to help tutor students
- Tutored up to 20 students at a time in classroom setting

Jan 2018 – May 2018 **Graduate Assistant, NYU Tandon School of Engineering, New York University**

- Graded homework assignments and exams for ME3413 : Automatic Controls and proctored exams
- Rewrote lecture notes using LaTeX for students

Jan 2015 – Jan 2016 **Assistant Researcher, Weinstein Lab, University of Nevada, Reno**

Worked as an assistant researcher in a physics lab at the University of Nevada, Reno during undergrad

- Assisted in gathering and analyzing data from spectroscopy experiments using Igor Pro
- Maintained and operated lab equipment including a cryostat, Helmholtz coils, photo sensors, and various optics
- Designed and constructed a printed circuit board (PCB) to aid in data acquisition
- Data from instrumentation analyzed using Microsoft Excel

Jan 2013 – Jan 2015 **Tutor, Physics Department/McNair Scholars, University of Nevada, Reno**

- Tutored Physics I (PHYS 180) for a semester in a classroom setting with approximately 20 students as part of a pedagogy program
- Tutored individuals for Physics II (PHYS 181) through the McNair Program
- Tutored one-on-one sessions in math courses such as trigonometry, calculus, and differential equations

Computer Skills (years noted in parentheses)

Python(2), Matlab(1), Simulink(1), Excel(3+), C++(<1), Linux(1), SQL(<1), git(1), github(1), Windows(5+), Mac(5+), LaTeX(2+), Microsoft Office (Word, Powerpoint, Excel) (5+)