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RESEARCH EXPERIENCE

9/1/18-Present **Graduate Research Assistant/Student,** University of Maine

- Master's degree student for the School of Earth and Climate Sciences

- Working in collaboration with my advisor, Bradfield Lyon from the School of Earth and Climate Sciences

- Researching the observed SST bias in coupled climate models

9/1/17-5/13/18 **Graduate Research Assistant/Student,** Rutgers University

- Worked alongside Dr. Benjamin Lintner of the Environmental Science Department of Rutgers University

- Studied the precipitation and evaporation patterns in the Amazon

- Utilized both CMIP5 and observational data from the ARM Climate Research Facility GoAmazon project

- Goal was to better understand the biases that current generation climate models have in simulating Amazonian Climate

- Focus was on Manaus, Brazil but future work will include much of the Amazon

9/1/16-Present **Undergraduate Research Assistant at Rutgers University**

- Worked alongside Dr. Anthony Broccoli of the Environmental Science Department

- Researched the effects of cloud feedbacks and predictions on global and high-resolution forecast models

- Models included the Global Forecast System (GFS), North American Mesoscale Model (NAM), and Model Output Statistics (MOS)

- Researched the accuracy of global models by comparing data results from the Rutgers Photochemical Assessment Monitoring (PAM) Site to

that recorded and predicted by National Oceanic and Atmospheric Administration (NOAA) Model Databases

- Learned the various complexities in the algorithms used in the statistical processing and multiple linear regressions utilized by MOS as well as the various assumptions and biases that the model performs

- Studied the properties of cloud microphysics and their role in the solar radiation budget

- Used programs such as Python, MATLAB, and Ferret, large datasets of solar radiation and cloud cover at all levels can be studied for patterns in behavior, which can be used to determine the weaknesses in the model's accuracy

WORK/INTERNSHIP EXPERIENCE

5/4/16-
Present
Meteorologist Intern and Employee at Spot-On Weather, Marlboro, NJ

- Improve my forecasting techniques and learn about how weather affects TV and film productions

- Create detailed and localized weather forecasts for various productions across the United States and select international locations including but not limited to Mexico and Canada

- Consult with production managers regarding further details in the provided forecasts and inform them on any impact that may arise do to inclement weather conditions

- Provide immediate alerts regarding severe weather conditions and associated hazards that may accompany these conditions

- Create detailed past weather reports for legal litigation cases where extreme weather played a role in the event's outcome

- Company's owner, Brett Zweiback stated at the end of the internship that I went above and beyond his expectations and offered me a paid, part time position with the company

- Typical work week consists of 4-8 hours of private sector forecasting

6/01/17-
8/10/18
Math and Science Instructor at TutorDoctor, Princeton, NJ

- Provided private tutoring services for students in and around Princeton, NJ
- Specialized in mathematics and science tutoring for ages K-12 and college
- Courses taught include Pre-Calculus Honors, Geometry, Trigonometry, Algebra 1&2, 5th grade math and English, Statistics, and Calculus

- Typical work week consisted of 4-6 hours of tutoring

VOLUNTEER EXPERIENCE

9/02/03-Present **Boston Marathon Jimmy Fund Brookline, MA Manager and Pacesetter**

- Organized a team for contributions and participation in the Boston Marathon Jimmy Fund Walk

- Goal is for curing Leukemia and childhood cancer

- Successfully fundraising nearly $60,000

9/2/15-Present **Rutgers University Student Volunteer**

- Participated in a number of outreach and volunteer opportunities including Rutgers Day, Accepted Student Orientation, and served as a tour guide for middle school students touring the Rutgers Gardens and Rutgers Meteorology Department

- Successful in encouraging a prospective student who was considering attending Rutgers University make the decision to decline other school offers and accept the chance to attend Rutgers

- Through my participation in Rutgers Day as well as other outreach events, many of the people I spoke with voiced their gratitude in my loyalty to the department and stated that they have a new found respect for the field

EDUCATION
Rutgers University, New Brunswick NJ
- Bachelor of Science, Atmospheric Science; May 2017

SKILLS
- Proficient in Microsoft Word, PowerPoint, Excel
- Proficient in Python, MATLAB, and Ferret programming languages
- Excellent analytical and critical thinking skills
- Exemplary oral communication skills
- Ability to work well under pressure

- Leadership abilities

REFERENCES

References Upon Request