

DEBORAH F. MCGLYNN

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975 Harless St.
Christiansburg, VA 24073

EDUCATION

- PhD** Virginia Polytechnic Institute and State University, Civil and Environmental Engineering Pending - May 2022
Dissertation: Unknown
Committee: Dr. Gabriel Isaacman-VanWertz
- MS** College of Environmental Science and Forestry, Chemistry May 2018
Thesis: "Understanding long-term variations in surface ozone in US National Parks"
Advisor: Dr. Huiting Mao
- BS** University at Albany, Environmental Science December 2014
Graduated Cum Laude
Minored in Chemistry and Climate Dynamics

HONORS AND AWARDS

- Davenport Fellowship** 2018
A one-year fellowship awarded to students in good academic standing and have demonstrated leadership in their field
- Davenport Fellowship** 2017
A one-year fellowship awarded to students in good academic standing and have demonstrated leadership in their field
- Undergraduate leadership award** 2011
Awarded to a student in the Mohawk Valley that has demonstrated leadership and potential to excel throughout their undergraduate career – awarded by anonymous

RESEARCH EXPERIENCE

- Dissertation**, Virginia Polytechnic Institute and State University, Blacksburg, VA 2017
Advisor: Dr. Gabriel Isaacman-VanWertz
- Development of new instrumentation to analyze atmospheric compounds
 - Development of software to run instrumentation
 - Development of software to analyze chromatographic data
 - Proficiency in Labview, C++, programming microcontrollers, Labjack, Igor, Python
 - Interpretation of chromatography and mass-spectroscopy data
 - Mentoring of undergraduate students

Thesis, College of Environmental Science and Forestry, Syracuse, NY 2015-2018

Advisor: Dr. Huiting Mao

- Proficiency in R, Matlab, Python, Origin, HYSPLIT, and ArcGIS
- Interpretation of effect of the large-scale climate oscillations on ozone concentrations
- Use of algorithm (EEMD) to decompose noisy ozone and temperature data
- Presenting of results
- Publication of findings in peer-reviewed journal

University at Albany, Albany, NY

2013 to 2014

Undergraduate research, Dr. Mathias Vuille

- Matlab
- Interpretation of temperature and large-scale climate oscillation data
- Presenting of results
- Scientific Writing

Atmospheric Science Research Center, Albany, NY

Summer 2014

Research Assistant, Dr. Scott Miller

- Calibration of atmosphere and water measurement instruments
- Trouble-shooting of instrumentation
- Data collection via data loggers

TEACHING EXPERIENCE

Virginia Polytechnique Institute and State University, Blacksburg, VA Fall 2018

Teaching Assistant, Civil and Environmental Engineering

- Teaching assistant for atmospheric chemistry, graded student homework and papers.

College of Environmental Science and Forestry, Syracuse NY

2015 to 2017

Teaching Assistant, Chemistry

- Taught General Chemistry Laboratory, an undergraduate course averaging 18 students per section, covering lab safety, handling techniques of hazardous chemicals, titrations, beer's law, spectroscopy, synthesis of biofuels, and calculations of yield
- Graded lab work and reports

PUBLICATIONS

Journal Publications

McGlynn, D.; Mao, H.; Wu, Z.; Sive, B.; Sharac, T. Understanding Long-Term Variations in Surface Ozone in United States (U.S.) National Parks. *Atmosphere* 2018, 9, 125.

PRESENTATIONS AND INVITED LECTURES

Paper Presentation, "Understanding Long-Term Variations in Surface Ozone in United States (U.S.) National Parks," Thesis defense, SUNY ESF, March 2018

Poster Presentation, “Distributed measurements of contaminant emissions with coordinated unmanned systems,” Civil and Environmental Engineering Research day, Virginia Tech, April 2018.

PROFESSIONAL AFFILIATIONS

National Society for Collegiate Scholars, 2011-Present
Maintain high academic standing, participate in community service

COMMUNITY SERVICE

Montgomery county animal care and adoption center
Volunteer, Christiansburg Virginia, 2017-present

LANGUAGES

English: Native Language

Spanish: Intermediate listener, novice speaker, intermediate reading and writing

French: Intermediate listener, novice speaker, intermediate reading and writing

Italian: novice listener, novice speaker, intermediate reading and writing

German: novice listener, novice speaker, intermediate reading and writing

COMPUTER SKILLS

Programming: Labview, R, Matlab, Python, C++

Applications: Origin, ArcGIS, HYSPLIT

REFERENCES

Dr. Gabriel Isaacman-VanWertz, Assistant Professor
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