

Andrew Westgate

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Education

2024	PhD of Atmospheric Sciences University of Wisconsin – Milwaukee, Milwaukee, WI
2020	M.S. of Atmospheric Sciences University of Wisconsin – Milwaukee, Milwaukee, WI
2018	B.S. of Atmospheric Sciences Vermont State University – Lyndon (formerly Lyndon State College)

Professional Experiences

2024-present	Assistant Professor, Vermont State University – Lyndon <ul style="list-style-type: none">Atmospheric Sciences Program, Natural Sciences Department
Falls 2022-2023	Teaching Assistant, University of Wisconsin – Milwaukee <ul style="list-style-type: none">Instructed students in an online, asynchronous survey of meteorology course for general education students
Springs 2023-2024	Teaching Assistant, University of Wisconsin – Milwaukee <ul style="list-style-type: none">Instructed students in two new lab sections for Introduction to Meteorology and Introduction to ClimatologyCreated labs for new course, lead group discussions with class based on lab material
Fall, 2023	Fill in Lecturer – Synoptic Meteorology I <ul style="list-style-type: none">Asked to cover four lectures over two weeks by professor going on paternity leave
2018-2019, 2021-2022	Teaching Assistant, University of Wisconsin – Milwaukee <ul style="list-style-type: none">Instructed students in the lab section of an introductory course in meteorology
2021-2024	Graduate Student Representative of the University of Wisconsin – Milwaukee Chapter of The Climate Consensus <ul style="list-style-type: none">Helped establish the UWM chapter with the goal to communicate climate change science with members of the communityServed on several committees, including network restructure, campus outreach, Fundraising and grant support, research, and one sheet
2021-Present	Air Quality Specialist – Wisconsin Department of Natural Resources <ul style="list-style-type: none">Collected local air samples as part of the Department of Homeland Security’s BioWatch program

2020-2021

Teaching Assistant, University of Wisconsin – Milwaukee

- Instructed students in the lab section of Synoptic Meteorology
- Created labs requiring the acquisition and observation of different weather maps

Spring, 2020

Research Assistant, University of Wisconsin – Milwaukee

- Compiled research material on climate change and submitted to professor
- Material used to educate the public about climate change through the local radio

Summers 2018-2021

Summer Research Intern, Naval Research Enterprise Internship Program

- Program administered by the American Society for Engineering Education and located at the Naval Research Laboratory, Monterey, CA
- Contributed to two mesoscale projects: analyzing the impact that adding more observations has on vertical profile variables in model runs and analyzing model and observation wind data to help direct new locations for observations in future field campaigns
- Contributed to two seasonal-to-seasonal forecasting projects regarding the Madden-Julian Oscillation and the Navy ESPC model's ability to accurately simulate it

Summer 2017

Summer Research Intern, Hobart and William Smith Colleges

- Used SPSS and GIS to calculate and plot decadal wind chill temperature, temperature, and wind speed trends across Canada and North America
- Compiled procedure and results into a report for supervisor and future interns

Summer 2017

Attendee, NCAR Undergraduate Leadership Workshop

- Nominated by faculty to represent Lyndon State College at the NCAR Undergraduate Leadership Workshop

Awards and Recognitions

2023

University of Wisconsin – Milwaukee Teaching Fellow Award

- Awarded to 10 TAs who have taught successfully at UWM, who convey enthusiasm for teaching, and who will serve as good role models for new TAs
- Help plan the new TA orientation and design and run workshops for new TAs to attend

2020, 2022, 2023

Dhirendra Sikdar Memorial Scholarship

- Awarded to 1-2 graduate students selected by faculty members who have a high-quality grade point average, research accomplishments, and recommendations

- 2018** **Climate Courage Award**
- Awarded annually to a student who has demonstrated willingness and passion to communicate climate change science to scientists and non-scientists
- 2018** **Lyndon State College Resident of the Year**
- Awarded to students who make a significant impact on their community
 - Designed and implemented methods to increase recycling and recycling literacy across campus
- 2015-2018** **Dean's List**
- Received a 3.5 GPA or higher for all semesters
- 2015** **President's List**
- Received a 4.0 GPA or higher for all semesters
- 2015** **Nominated by Faculty to be Writing Consultant**
- 2014** **TN Vail / Woodall Scholarship**
- Considered one of Lyndon's most prestigious academic awards
 - Given to an incoming student or students with an outstanding academic record
- 2014** **Jim Cantore Scholarship**
- Given to an incoming meteorology student or students that are studying Atmospheric Sciences

Presentations

- 2024** **Tudor Oaks Senior Community**
- "Climate change, Wisconsin, and what we can do"
- 2024** **US CLIVAR Workshop on Confronting Earth System Model Trends with Observations: The Good, the Bad, and the Ugly**
- "Globally Connected Multidecadal Variability in Climate Models and Observations"
- 2024** **UWM Osher Lifelong Learning Institute**
- "Climate change, Wisconsin, and what we can do"
- 2024** **UWM Teaching and Learning Symposium**
- "Student-Centered Learning: Making Students the Focus of the Classroom"
- 2023** **UWM's Teaching Assistant Orientation**
- "Student-Centered Learning: Making Students the Focus of the Classroom"
- 2023** **Milwaukee Chapter of the Kiwanis Group**
- "Climate change, Wisconsin, and what we can do"
- 2022** **Vermont State University – Lyndon Northeastern Storm Conference**
- "The Climate Consensus: Changing the Climate Conversation"

- 2021 Lake Sturgeon Bowl**
- “Climate change, Wisconsin, and what we can do”
- 2021 Milwaukee Chapter of the American Meteorological Society**
- “The Climate Consensus: Changing the Climate Conversation”
- 2021 Annual Conference of the American Meteorological Society – Town Hall**
- “The Climate Consensus: Creating a Multi-Institution Outreach Network”
- 2021 Naval Research Enterprise Internship Program**
- “Contributions of Surface Winds and Thermodynamics to Intraseasonal Surface Flux Biases in Navy ESPC”
- 2020 Naval Research Enterprise Internship Program**
- “Relationship between Observed and Simulated SST, OLR, and Surface Winds with respect to MJO Phase”
- 2019 Naval Research Enterprise Internship Program**
- “Comparison of Observed and COAMPS Wind Data to Direct Locations of Future Observation Sites”
- 2018 Naval Research Enterprise Internship Program**
- “Analyzing the Effect of Additional Weather Observations on COAMPS Output Variables Pertaining to EM Wave Propagation”
- 2018 Vermont State University – Lyndon Northeastern Storm Conference**
- “Decadal Wind Chill and Temperature Trends for Canada and the United States”
- 2018 Annual Conference of the American Meteorological Society – Student Conference Poster Session**
- “Decadal Wind Chill and Temperature Trends for Canada and the United States”
- 2018 Vermont State College System Student Symposium Poster Session**
- “Improving Climate Change Literacy and Communication Skills Among Young Atmospheric Scientists”

Service

- 2021-2024 Mentor for UWM Atmospheric Science Mentorship Program**
- Mentor undergraduate students by discussing college difficulties and professional opportunities
- 2022-2024 President of UWM’s Climate Consensus Club**
- Organized quasi-monthly meetings, led executive board meetings, planned future events
- 2017 Supplementary Instructor**
- Survey of Climatology and Statistics and Physical Meteorology
 - Nominated by instructor and prepared weekly formal review sessions

- Led and facilitated sessions to help students understand the course material

2015-2018

Co-Coordinator of Student Ambassadors

- Hired and oversaw other students who gave tours to prospective students and their families for admissions events
- Organized and ran open houses for prospective students and their families

2016-2017

Sigma Zeta Honor Society Vice President

- Organized fundraisers and a science fair for local middle schools

2015-2018

Climate Change Communicator

- Traveled to local schools and educated youth about the science of climate change
- Served on a student panel during a public forum to the local community about climate change and its impacts
- Talked about the science of climate change and the best way to communicate it to the general public

2014-2018

Member, Lyndon State College AMS-NWA Club

- Volunteered for club fundraisers

2016-2017

Member, Model United Nations Club

- Attended Harvard's Model United Nations Conference: served on a counsel regarding geoengineering