

Emily A. Mazan

Contact

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Education

- PhD** Atmospheric Science, Ohio State University, *Expected 2026*
Advisor: Dr. Bryan Mark
- BS** Meteorology, *Valparaiso University*, *2020*
Minor in Mathematics

Publications

PEER REVIEWED ARTICLES

Clark, C. A., Metz N. D., Goebbert, K. H., Ganesh-Babu, B., Ballard, N., Blackford, A., Bottom, A., Britt, C., Carmer, K., Davis, Q., Dufort, J., Gendusa, A., Gertonson, S., Harms, B., Kavanaugh, M., Landgrebe, J., **Mazan, E.**, Schroeder, H., Rutkowski, N., Yurk, C. (2022). Climatology of Lake-Effect Snow Days Along the Southern Shore of Lake Michigan: What Is the Sensitivity to Environmental Factors and Snowband Morphology? *Frontiers in Water*. 4. doi= 10.3389/frwa.2022.826293

DATASETS

Mazan, Emily et al. 2023. Great Basin National Park, NV air temperature and relative humidity [Dataset]. Dryad. <https://doi.org/10.5061/dryad.bcc2fqzjm>

NEWSLETTERS

Mazan, Emily et al. 2023. The Highs and Lows of Monitoring Temperature in the Park. *The Midden – Great Basin National Park*: Vol. 23, No. 2, Winter 2023.

Conference Presentations

PEER REVIEWED PRESENTATIONS

Mazan, E. A., Mark, B.G., Hellström, R. Å., Mateo, E. I., Sambuco, E. N. Comparing temperature and humidity trends in two water-stressed mountain environments with embedded sensor networks. 104th Annual AMS Meeting, Baltimore, Maryland.

Mark, B. G., Hellström, R., **Mazan, E.**, Mateo, E. 2023: Sustaining intercomparable hydroclimate mountain observations with distributed and open access networks in Peru and Nevada. Annual AAG Meeting.

Mazan, E. A., Mateo, E. I., Mark, B. G., Hellström, R. Å. 2022: Elevation dependent trends of near-surface temperatures and humidity in the Cordillera Blanca and the Great Basin National Park. International Mountain Conference, Innsbruck, Austria.

Mark, B. G., Hellström, R., Mateo, E., **Mazan, E.** 2022: Intercomparing diurnal to decadal mountain temperature trends from networks of near-surface embedded sensors spanning 50 degrees along the American Cordillera. Annual AAG Meeting.

POSTERS

Mazan, E. A., Mark, B.G., Hellström, R. Å., Mateo, E. I., Sambuco, E. N., Porinchu, D.F., Reinemann, S.A. 2023: Elevation dependent temperature and humidity trends in two mountain environments within the American Cordillera (2007-2020). 5th Annual Byrd Center Symposium for Climate Change Research, Columbus, Ohio.

Hanrahan, J., Bernstein, D., Brown, G., Contosta, A., Cornell, L., Evans, C., Klinger, B. A., Kristiansen, S., LaFleur, A., Laird, N., Mark, B., **Mazan, E.**, McDermid, S., Reed, A., Schlosser, A., Varuolo-Clarke, A., Wang, L., Westgate, A., Winckler, G. 2022: Building capacity for climate change outreach: Supporting, encouraging, and inspiring scientists within our academic institutions. Earth Educators' Rendezvous conference.

Mazan, E. A., and Bassis, J. 2020: The Role of Buoyancy in Controlling Glacier Calving. 19th Annual Student Conference. 100th Annual AMS Meeting, Boston, Massachusetts.

ADDITIONAL PRESENTATIONS

Mazan, E.A. August 2023: Temperature and humidity trends in the Snake Range, NV and Cordillera Blanca, Peru. Great Basin National Park, NV.

Mazan, E.A. June 2023: Intercomparación de tendencias de temperatura y humedad en Snake Range, NV y Cordillera Blanca, Perú. Universidad Nacional Santiago Antúnez de Mayolo (UNASAM), Huaraz, Peru.

Mazan, E.A. April 2023: The importance of fieldwork in understanding mountain environments. Valparaiso University Earthtones Environmental Conference, Valparaiso, IN.

Grants and Awards

Great Basin Heritage Area Partnership Small Grant for region-specific field work

Great Basin Heritage Area Partnership. Above and Below the Snow, \$6,000 2024-2025

Ray Travel Award for Service and Scholarship

Ohio State University Council of Graduate Students 2023

Fenburr Travel Scholarship for Outstanding Graduate Students

Ohio State University Department of Geography 2023

ENGIE-Axium Curricular Practical Training Scholarship

Ohio State University and ENGIE/Axium Partner Companies 2023

Eugene M. Rasmusson Award for Excellent Scholarship and Service

Valparaiso University Meteorology Program 2020

Valpo Innovates 3rd Place Award for Safety & Security Concept

Valparaiso University Department of Business 2019

Valpo Innovates 2nd Place Award for Pollution Concept

Valparaiso University Department of Business 2018

Research and Field Experience

Cordillera Blanca, Peru, Annual Field Maintenance, Ohio State University
Graduate Researcher

Jun 2023

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| Great Basin Field Experience , Ohio State University <i>Graduate Researcher</i> | 2022, 2023 |
| Radiosonde and Meteorological Equipment Internship , Valparaiso University <i>Undergraduate Intern</i> | 2019 - 2020 |
| National Science Foundation's Research Experience for Undergraduates Program in Climate and Space Science Observations , University of Michigan <i>Undergraduate Research Intern</i> | 2019 |
| ICICLE Aircraft Icing Research Project , Valparaiso University <i>Undergraduate Intern</i> | 2019 |

Teaching Experience

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| Graduate Teaching Assistant , Ohio State University GEOG 3900: Global Climate Change: Causes & Consequences | 2023, SP24 |
| Graduate Teaching Assistant , Ohio State University GEOG 1900: Extreme Weather and Climate | 2021- 2022 |
| Graduate Teaching Assistant , Ohio State University GEOG 2100: Human Geography | SP22 |
| Lab Assistant , Valparaiso University MET 372/373: Atmospheric Dynamics Lab | 2019- 2020 |
| Course Grader , Valparaiso University MATH 110/111: Quantitative Reasoning | 2019-2020 |
| Course Grader , Valparaiso University GEO 104: Introduction to Geomorphology | 2017 |

Outreach & Engagement

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| The Climate Consensus Graduate Student Representative Events and Outreach Committee Representative | 2022 – Present 202 – Present |
| Graduate Geography Organization Council of Graduate Students Representative, Social Chair | 2022 – Present |
| Third Hand Bikes Volunteer Mechanic | 2021 – 2023 |
| Political Campaign Internship Assisted with the campaigns of Maura Hirschauer (IL), Seth Wiggins (IL), Christopher DeMink (IL), and Scott Costello (IN) | 2020-2021 |
| Museum of Science and Industry's Science Works Event , Chicago, IL Experiment Demonstrator and Teacher | 2019 |

Valparaiso University's Meteorology Field Day

Experiment Demonstrator and Teacher

2018 – 2019

National Incident Management Systems (NIMS) 100, 200, & 700 Certifications

Emergency Services MAAC Foundation: Indiana District I

2017

Indiana Community Emergency Response Training Certification

Emergency Services MAAC Foundation: Indiana District I

2017

Professional Organizations

American Geophysical Union

American Meteorological Society

Chi Epsilon Pi -- Meteorology Honors Society

Gamma Theta Upsilon – Geography Honors Society

The Climate Consensus