

Alex M. Haberlie, Ph.D.
Assistant Professor
Department of Earth, Atmosphere, and Environment
Northern Illinois University
DeKalb, IL, 60115
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Education

- 2018 **Ph.D., Geography**
Northern Illinois University, DeKalb, IL
Dissertation: *Observed and Future Dynamically
Downscaled Estimates of Precipitation Associated
with Mesoscale Convective Systems*
Advisor: Dr. Walker Ashley
- 2014 **M.S., Geography**
Northern Illinois University, DeKalb, IL
Thesis: *Convective Initiation Climatology for the
Atlanta, Georgia Region*
Advisors: Dr. Walker Ashley, Dr. Thomas Pingel
- 2010 **B.S., Computer Science**
University of Wisconsin – Platteville, Platteville, WI

Professional Appointments

- 2021 – Present **Assistant Professor**
Department of Earth, Atmosphere and Environment
Northern Illinois University, DeKalb, IL
- 2018 – 2021 **Assistant Professor**
Department of Geography and Anthropology
Louisiana State University, Baton Rouge, LA
- 2014 – 2018 **Instructor and Graduate Research Assistant**
Department of Geographic and Atmospheric Sciences
Northern Illinois University, DeKalb, IL
- 2012 – 2014 **Graduate Teaching Assistant**
Department of Geographic and Atmospheric Sciences
Northern Illinois University, DeKalb, IL

Research Interests

Observed and future projections of climate extremes, severe and hazardous weather, land use/land cover effects on regional climatology, applications of machine learning and computer vision.

Peer-reviewed Publications (21 Publications; 10 first author; 11 co-author)

*denotes student author and topic supervised as a graduate committee member

**denotes student author and topic supervised as a graduate committee chair

- [21] Bhowmick, R. *, J. C. Trepanier, and **A. M. Haberlie**, 2023: Classification Analysis of Southwest Pacific Tropical Cyclone Intensity Changes Prior to Landfall. *Atmosphere*, **14**, 253. <https://doi.org/10.3390/atmos14020253>.
- [20] Ashley, W. S., **A. M. Haberlie**, and V. A. Gensini, 2023: The Future of Supercells in the United States. *Bulletin of the American Meteorological Society*, **104**, E1-E21. <https://doi.org/10.1175/bams-d-22-0027.1>.
- [19] Wallace, B. C., **A. M. Haberlie**, W. S. Ashley, V. A. Gensini, and A. C. Michaelis, 2023: Decomposing the precipitation response to climate change in convection allowing simulations over the conterminous United States. *Earth and Space Science*, **10**, e2023EA003094. <https://doi.org/10.1029/2023ea003094>.
- [18] **Haberlie, A. M.**, W. S. Ashley, V. A. Gensini, and A. C. Michaelis, 2023: The ratio of mesoscale convective system precipitation to total precipitation increases in future climate change scenarios. *npj Climate and Atmospheric Science*, **6**, 150. <https://doi.org/10.1038/s41612-023-00481-5>.
- [17] Gensini, V. A., **A. M. Haberlie**, and W. S. Ashley, 2023: Convection-Permitting Simulations of Historical and Possible Future Climate over the Contiguous United States. *Climate Dynamics*, **60**, 109-126. <https://doi.org/10.1007/s00382-022-06306-0>.
- [16] Strader, S. M., W. S. Ashley, **A. M. Haberlie**, and K. Kaminski, 2022: Revisiting U.S. Nocturnal Tornado Vulnerability and its Influence on Tornado Impacts. *Weather, Climate, and Society*, **14**, 1147-1163. <https://doi.org/10.1175/wcas-d-22-0020.1>.
- [15] Bhowmick, R. *, J. C. Trepanier, and **A. M. Haberlie**, 2022: Southwest Pacific Tropical Cyclone Development Classification Utilizing Machine Learning and Synoptic Composites. *International Journal of Climatology*, **42**, 4187-4213. <https://doi.org/10.1002/joc.7457>.
- [14] **Haberlie, A. M.**, W. S. Ashley, C. M. Battisto*, and V. A. Gensini, 2022: Thunderstorm Activity Under Intermediate and Extreme Climate Change Scenarios. *Geophysical Research Letters*, **49**, e2022GL098779. <https://doi.org/10.1029/2022gl098779>.
- [13] Strader, S. M., **A. M. Haberlie**, and A. Loitz, 2021: Assessment of NWS County Warning Area Tornado Risk, Exposure, and Vulnerability. *Weather, Climate, and Society*, **12**, 189-209. <https://doi.org/10.1175/wcas-d-20-0107.1>.
- [12] **Haberlie, A. M.**, W. S. Ashley, and M. Karpinski*, 2021: Mean storms: Composites of radar reflectivity images during two decades of severe thunderstorm events. *International Journal of Climatology*, **41**, E1738-E1756. <https://doi.org/10.1002/joc.6804>.
- [11] Ashley, W. S., **A. M. Haberlie**, and V. A. Gensini, 2020: Reduced frequency and size of late-twenty-first-century snowstorms over North America. *Nature Climate Change*, **10**, 539-544. <https://doi.org/10.1038/s41558-020-0774-4>.
- [10] Gensini, V. A., **A. M. Haberlie**, and P. T. Marsh, 2020: Practically Perfect Hindcasts of Severe Convective Storms. *Bulletin of the American Meteorological Society*, **101**, E1259-E1278. <https://doi.org/10.1175/bams-d-19-0321.1>.
- [9] Ashley, W. S., **A. M. Haberlie**, and J. Strohm, 2019: A Climatology of Quasi-Linear Convective Systems and Their Hazards in the United States. *Weather and Forecasting*, **34**, 1605-1631. <https://doi.org/10.1175/waf-d-19-0014.1>.
- [8] **Haberlie, A. M.**, and W. S. Ashley, 2019: A radar-based climatology of mesoscale convective systems in the United States. *Journal of Climate*, **32**, 1591-1606. <https://doi.org/10.1175/jcli-d-18-0559.1>.

Peer-reviewed Publications (Continued)

- [7] **Haberlie, A. M.**, and W. S. Ashley, 2019: Climatological representation of mesoscale convective systems in a dynamically downscaled climate simulation. *International Journal of Climatology*, **39**, 1144- 1153. <https://doi.org/10.1002/joc.5880>.
- [6] **Haberlie, A. M.**, and W. S. Ashley, 2018: A Method for Identifying Mesoscale Convective Systems in Radar Mosaics. Part I: Segmentation and Classification. *Journal of Applied Meteorology and Climatology*, **57**, 1575-1598. <https://doi.org/10.1175/jamc-d-17-0293.1>.
- [5] **Haberlie, A. M.**, and W. S. Ashley, 2018: A Method for Identifying Midlatitude Mesoscale Convective Systems in Radar Mosaics. Part II: Tracking. *Journal of Applied Meteorology and Climatology*, **57**, 1599–1621. <https://doi.org/10.1175/jamc-d-17-0294.1>.
- [4] **Haberlie, A. M.**, W. S. Ashley, A. Fultz, and S. Eagan, 2016: The effect of reservoirs on the climatology of warm-season thunderstorms in Southeast Texas, USA. *International Journal of Climatology*, **36**, 1808-1820. <https://doi.org/10.1002/joc.4461>.
- [3] Ashley, W. S., S. Strader, D. Dziubla, and **A. M. Haberlie**, 2015: Driving blind: Weather-related vision hazards and fatal motor vehicle crashes. *Bulletin of the American Meteorological Society*, **96**, 755-778. <https://doi.org/10.1175/bams-d-14-00026.1>.
- [2] **Haberlie, A. M.**, W. S. Ashley, and T. Pingel, 2015: The effect of urbanization on the climatology of thunderstorm initiation. *Quarterly Journal of the Royal Meteorological Society*, **141**, 663-675. <https://doi.org/10.1002/qj.2499>.
- [1] **Haberlie, A. M.**, K. Gale, D. Changnon, and M. Tannura, 2014: Climatology of tropical system rainfall on the eastern Corn Belt. *Journal of Applied Meteorology and Climatology*, **53**, 395-405. <https://doi.org/10.1175/jamc-d-13-0151.1>.

Publications submitted for review

Submitted 2023	Haberlie, A. M. , Wallace, B., W. S. Ashley, A. C. Michaelis, and V. A. Gensini, under review: Mesoscale Convective System Activity in the United States Under Intermediate and Extreme Climate Change Scenarios. 1979–2021. <i>Climatic Change</i> .
Submitted 2023	Andrews, M., V. A. Gensini, A. M. Haberlie , and W. S. Ashley, A. C. Michaelis, M. Taszarek, under review: Climatology of the Elevated Mixed Layer Over the Contiguous United States and Northern Mexico: 1979–2021. <i>Journal of Climate</i> .
Submitted 2023	Bundy, L., V. A. Gensini, W. S. Ashley, A. M. Haberlie , D. Changnon, under review: Analysis of United States Crop Conditions: 1986 - 2022. <i>Agronomy Journal</i> .
Submitted 2023	Kaminski K., W. S. Ashley, A. M. Haberlie , and V. A. Gensini, under review: Future Derecho Potential in the United States. <i>Journal of Climate</i> .
Submitted 2023	Stinnett, S., V. A. Gensini, A. M. Haberlie , A. C. Michaelis, and W. S. Ashley, under review: Future Changes in the Climate of Extreme Daily Precipitation over the Contiguous United States from Convection-Permitting Simulations. <i>Journal of Applied Meteorology and Climatology</i> .
Submitted 2023	Zeeb, A. W., W. S. Ashley, A. M. Haberlie , V. A. Gensini, and A. C. Michaelis, under review: Supercell Precipitation Contribution to the United States Hydroclimate. <i>International Journal of Climatology</i> .

Invited Presentations

- Haberlie, A. M.**, 2022: Thunderstorm Activity Under Intermediate and Extreme Climate Change Scenarios. *Department of Earth, Atmosphere, and Environment Colloquium Series*, DeKalb, IL.
- Haberlie, A. M.**, 2022: Thunderstorms in a changing climate. *NIUSTEAM: STEM Café*, DeKalb, IL.
- Haberlie, A. M.**, 2021: Knowledge Discovery in Datasets of Observed and Simulated Thunderstorms. *Department of Geographic and Atmospheric Sciences Colloquium Series*, DeKalb, IL.
- Haberlie, A. M.**, 2020: An analysis of half a million radar reflectivity snapshots centered on severe weather reports from 1996 to 2017. *Central Louisiana Chapter of the American Meteorological Society Meeting*, Baton Rouge, LA.
- Haberlie, A. M.**, 2018: Classifying Rainfall Areas with Machine Learning. *2018 Unidata Users Workshop*, Boulder, CO.
- Haberlie, A. M.**, 2018: The Past, Present, and Future of Organized Thunderstorms. *Department of Geography and Anthropology Friday Forum*, Baton Rouge, LA.
- Haberlie, A. M.**, and D. Changnon, 2013: Climatology of tropical system rainfall on the eastern Corn Belt. *Chicago Chapter of the American Meteorological Society*, DeKalb, IL.

Funded Grant Proposals

- 2021 – 2024 **National Oceanic and Atmospheric Administration (NOAA)**
The Vortex Southeast Project – \$166,851
PI: S. Strader; Co-PIs: **A. Haberlie**, W. Ashley, and J. Henderson
Proposal Title: *Faster, Clearer, Stronger Communication and Action: Building IWT and Vulnerable Resident Connections to Improve Severe Weather Literacy and Outcome*
- 2021 – 2023 **National Oceanic and Atmospheric Administration (NOAA)**
The Adaptation Sciences Program – \$25,729
PI: Barry Keim; Co-PIs: V. Brown, **A. Haberlie**, A. Lewis, and W. Shao
Proposal Title: *Planning a Flood Resilient Future for New Orleans, LA*
- 2019 – 2022 **National Science Foundation (NSF)**
Physical and Dynamic Meteorology and Climate and Large-Scale Dynamics – \$60,382
PI: W. Ashley; Co-PIs: R. Schumacher, V. Gensini, and **A. Haberlie**
Proposal Title: *Observed and Future Dynamically Downscaled Estimates of Precipitation Associated with Mesoscale Convective Systems*
- 2019 – 2021 **Louisiana Board of Regents (BoR)**
Research Competitiveness Subprogram – \$86,157
PI: **A. Haberlie**
Proposal Title: *Building a Climatology of Mesoscale Convective Processes Using Image-Classification and Machine- Learning Techniques on Sequences of Radar Data*

Funded Grant Proposals (Continued)

- 2018 – 2020 **National Oceanic and Atmospheric Administration (NOAA)**
Louisiana Sea Grant
National Sea Grant College Program – \$200,000
PI: R. Edwards
Co-PIs: B. Keim, J. Sylvester, A. Miller, A. Black, and **A. Haberlie**
Proposal Title: *Communicating Climate Tools to Coastal Stakeholders*
- 2014 **United States Geological Survey (USGS)**
Illinois Water Resources Center – \$8,663
PI: D. Changnon; Co-PI: **A. Haberlie**
Proposal Title: *Hydro-meteorological responses to tropical system precipitation in Illinois*

Pending Grant Proposals

- Submitted 2023 **National Science Foundation**
Industry-University Research Partnerships – \$20,000
PI: V. Gensini; Co-PIs: **A. Haberlie**, A. Michaelis, W. Ashley
Proposal Title: *IUCRC Planning Grant Northern Illinois University: Center for Interdisciplinary Research on Convective Storms (CIRCS) - 2024*
- Submitted 2023 **Northern Illinois University**
Research and Artistry Opportunity Grants – \$14,979
PI: **A. Haberlie**
Proposal Title: *Estimates of Future Precipitation Extremes from Regional Climate Model Ensembles – 2024 - 2025*
- Submitted 2023 **National Science Foundation**
Geomorphology and Land-use Dynamics – \$471,898
PI: Wei Luo; Co-PI: **A. Haberlie**
Proposal Title: *GEMT: Leveraging High Resolution Spatiotemporal Landslide Inventory Data of Taiwan and the Power of Artificial Intelligence to Assess Impact of Climate Change on Landslide Hazards – 2024 - 2027*

Declined Grant Proposals

- Submitted 2023 **National Center for Atmospheric Research**
Large Allocation Request (University) – 25 million SUs
PI: A. Michaelis; Co-PIs: V. Gensini, A. Haberlie, and W. Ashley
Proposal Title: *Dynamically Downscaled Near-term Climate Change Projections of Meso-gamma Hazards at Convection-permitting Scales*
- Submitted 2023 **National Center for Atmospheric Research**
Large Allocation Request (University) – 25 million SUs
PI: V. Gensini; Co-PIs: A. Michaelis, A. Haberlie, and W. Ashley
Proposal Title: *Climate change projections of meso-gamma hazards using dynamical downscaling*

Declined Grant Proposals (Continued)

- Submitted 2023 **San Diego Gas & Electric (SDGE) – \$103,215.91**
PI: M. Simpson; Co-PI: A. Michaelis, and A. Haberlie
Proposal Title: *Evaluation of Future Changes in Fire Weather Across Southern California*
- Submitted 2021 **National Oceanic and Atmospheric Administration (NOAA)**
PI: V. Gensini; Co-PIs: R. Adams-Selin, and A. Haberlie
Proposal Title: *Improving Day 4-8 Severe Convective Weather Guidance*
- Submitted 2020 **National Oceanic and Atmospheric Administration (NOAA)**
PI: V. Gensini; Co-PIs: R. Adams-Selin, and A. Haberlie
Proposal Title: *Improving Extended Range Severe Weather Forecasts*
- Submitted 2019 **National Oceanic and Atmospheric Administration (NOAA)**
PI: S. Strader; Co-PIs: K. Ash, W. Ashley, and A. Haberlie
Proposal Title: *An Inter-science Approach to Transform Integrated Warning Team-to-Mobile Home Resident Communication and Improve Tornado Survivability in the Southeast U.S.*

Conference presentations (*graduate student advisee)

- Corner, J. M.* , **A. M. Haberlie**, and S. C. Collis, 2023: Verification of Storm Mode in Model Using Machine Learning. *22nd Annual Student Conference*, Denver, CO, S13, <https://ams.confex.com/ams/103ANNUAL/meetingapp.cgi/Paper/422811>.
- Haberlie, A. M.**, W. S. Ashley, V. A. Gensini, and A. Michaelis, 2023: Mesoscale Convective System Activity Under Intermediate and Extreme Climate Change Scenarios. *36th Conference on Climate Variability and Change*, Denver, CO, American Meteorological Society, 4C.1, <https://ams.confex.com/ams/103ANNUAL/meetingapp.cgi/Paper/419605>.
- Haberlie, A. M.**, W. S. Ashley, V. A. Gensini, and A. Michaelis, 2022: Mesoscale Convective System Activity Under Intermediate and Extreme Climate Change Scenarios. *30th Conference on Severe Local Storms*, Santa Fe, NM, American Meteorological Society, 188, <https://ams.confex.com/ams/30SLS/meetingapp.cgi/Paper/407719>.
- Haberlie, A. M.**, W. S. Ashley, V. A. Gensini, and A. Michaelis, 2022: Projected Changes in Mesoscale Convective Systems over North America. *19th Conference on Mesoscale Processes*, Virtual Meeting, American Meteorological Society, 14.3A, <https://ams.confex.com/ams/102ANNUAL/meetingapp.cgi/Paper/395946>.
- Haberlie, A. M.**, W. S. Ashley, V. A. Gensini, and C. Battisto, 2021: Performance of Continental-Scale Regional Climate Simulations for High-Impact Weather Events. *34th Conference on Climate Variability and Change*, Virtual Meeting, American Meteorological Society, 14B.10, <https://ams.confex.com/ams/101ANNUAL/meetingapp.cgi/Paper/384395>.
- Haberlie, A. M.**, W. S. Ashley, V. A. Gensini, and M. Karpinski, 2021: SVRIMG: Radar Reflectivity Images Centered on Severe Weather Reports. *11th Symposium on Advances in Modeling and Analysis Using Python*. American Meteorological Society, Virtual Meeting, 1037, <https://ams.confex.com/ams/101ANNUAL/meetingapp.cgi/Paper/384398>.
- Haberlie, A. M.**, W. S. Ashley, V. A. Gensini, and M. Karpinski, 2020: Analysis and Application of Mesoscale Radar Scenes during Severe Weather Events. *19th Conference on Artificial Intelligence for Environmental Science*. Boston, MA, American Meteorological Society, 4.4, <https://ams.confex.com/ams/2020Annual/meetingapp.cgi/Paper/368779>.

Conference presentations (Continued)

- Haberlie, A. M.**, and W. S. Ashley, 2019: Using Machine Learning Techniques to Construct a Climatology of Mesoscale Convective Systems in the United States. *18th Conference on Artificial and Computational Intelligence and Its Application to the Environmental Sciences*, Phoenix, AZ, American Meteorological Society, 183, <https://ams.confex.com/ams/2019Annual/meetingapp.cgi/Paper/352493>.
- Haberlie, A. M.**, and W.S. Ashley, 2018: Climatological Representation of Mesoscale Convective Systems in a Dynamically Downscaled Climate Simulation, 2nd Convection-Permitting Climate Modeling Workshop, Boulder, CO, GEWEX, <https://drive.google.com/file/d/1AlgM-WQ8GpMw2wQJlgg9gICJZKNG8-IZ/view>
- Haberlie, A. M.**, W. S. Ashley, and J. Strohm, 2018: A Climatology of Quasi-linear Convective Systems in the U.S. *2018 SWAAG Meeting*. Baton Rouge, LA, American Association of Geographers, http://www.sw-aag.org/uploads/2/4/4/5/24451940/2018_swaag_annual_meeting_-_abstracts.pdf.
- Haberlie, A. M.**, and W. S. Ashley, 2018: Using Scikit-Learn to Increase the Precision of an Automated Mesoscale Convective System Segmentation and Tracking Procedure. *8th Symposium on Advances in Modeling and Analysis Using Python*. Austin, TX, American Meteorological Society, 281, <https://ams.confex.com/ams/98Annual/webprogram/Paper327997.html>.
- Haberlie, A. M.**, and R. May, 2017: Implementation and Comparison of Interpolation Techniques for the Meteorological Python (MetPy) Package, *7th Symposium on Advances in Modeling and Analysis Using Python*. Seattle, WA, American Meteorological Society, 317, <https://ams.confex.com/ams/97Annual/webprogram/Paper304950.html>.
- Haberlie, A. M.**, and W. S. Ashley, 2017: A Comparison of Machine Learning Approaches for Classification of Radar-derived Convective Clusters, *7th Symposium on Advances in Modeling and Analysis Using Python*, Seattle, WA, American Meteorological Society, 318, <https://ams.confex.com/ams/97Annual/webprogram/Paper308024.html>.
- Haberlie, A. M.**, and W. S. Ashley, 2016: A U.S. climatology of mesoscale convective systems: 1997- 2013. *15th Annual Student Conference*, New Orleans, LA, American Meteorological Society, S81, <https://ams.confex.com/ams/96Annual/webprogram/Paper292206.html>.
- Haberlie, A. M.**, and W. S. Ashley, 2014: A U.S. climatology of mesoscale convective systems: 1997- 2013. *27th Conference on Severe Local Storms*, Madison, WI, American Meteorological Society, 143, <https://ams.confex.com/ams/27SLS/webprogram/Paper256044.html>.
- Haberlie, A. M.**, W. S. Ashley, and T. J. Pingel, 2014: Comparison of Methodologies for Detecting Convective Initiation Due to Differences in Land Use. *11th Symposium on the Urban Environment*, Atlanta, Georgia, American Meteorological Society, 287, <https://ams.confex.com/ams/94Annual/webprogram/Paper235719.html>.

Honors and Awards

2017 – 2018	Graduate Research Fellowship Dissertation Completion Fellowship
2015 – 2016	Graduate Research Assistantship Great Journeys Program
2015 – 2016	Outstanding Thesis Award Thesis Title: <i>Convective Initiation Climatology for the Atlanta, Georgia Region</i>
2013 – 2014	Outstanding Graduate Student Award

Professional Memberships

2012 – Present	American Meteorological Society (AMS)
2014 – Present	American Association of Geographers (AAG)
2014	Gamma Theta Upsilon (GTU) International Honor Society

Professional Development

2023	Unidata Users Workshop University Corporation for Atmospheric Research Boulder, CO
2018	Working Group Meeting South Central Climate Adaptation Science Center Fort Worth, TX
2018	2nd Convection-Permitting Climate Modeling Workshop Global Energy and Water Exchanges Program (GEWEX) Boulder, CO
2018	Unidata Users Workshop University Corporation for Atmospheric Research Boulder, CO
2018	Geography Faculty Development Alliance (GFDA) Early Career Faculty Workshop Association of American Geographers Washington, D.C.
2016	Unidata Intern University Corporation for Atmospheric Research, Boulder, CO

Professional Activities

- 2021 – Present **Associate Editor**
Artificial Intelligence for the Earth Systems
American Meteorological Society
- 2020 – Present **Representative**
Unidata Users Committee
University Corporation for Atmospheric Research
- 2021 **Associate Editor**
Monthly Weather Review
American Meteorological Society
- 2018 – 2021 **Affiliate Member**
Louisiana State University
South Central Climate Adaptation Science Center

Professional Service

- 2023 **Co-Chair of Organization Committee**
2023 Unidata Users Workshop
- 2022 **Review Panelist**
Unidata Equipment Awards
- 2020 **Session Co-Chair**
19th Conference on A.I. for Environmental Sci.
American Meteorological Society
- 2019 **External reviewer**
Geography and Spatial Sciences Program
National Science Foundation
- 2018 **Local Host Committee Member**
Southwest Division
American Association of Geographers
- 2013 – 2023 **Peer Reviewer**
Bulletin of the American Meteorological Society, Nature Climate Change, Artificial Intelligence for the Earth Systems, Journal of Geophysical Research – Atmospheres, Journal of Atmospheric and Oceanic Technology, Geophysical Research Letters, International Journal of Climatology, Journal of Climate, Remote Sensing, Remote Sensing Letters, Journal of Applied Meteorology and Climatology, Journal of Hydrometeorology, Monthly Weather Review, Weather and Forecasting, and Urban Climate.

Departmental Service

Northern Illinois University
Department of Earth, Atmosphere, and Environment
Previously: Department of Geographic and Atmospheric Sciences (2021 – 2022)

2023 – Present	Undergraduate Advisor Climate Science Emphasis
2022 – Present	Faculty Advisor American Meteorological Society Student Chapter
2022 – Present	Committee Member Infrastructure Committee
2021 – Present	Booth Volunteer STEMfest
2022	Chair Postdoctoral Researcher Search Committee

Louisiana State University
Department of Geography and Anthropology

2020 – 2021	Undergraduate Coordinator Geography B.A. / B.S.
2020 – 2021	Committee Member Speakers Committee
2018 – 2020	Committee Member Technology Committee

Mentorship

Postdoctoral Advising

2022 – Present Brendan Wallace

M.S. / Ph.D. Advising

M.S. / Ph.D. Committee Member

2023	Daniel Curtis (NIU, M.S.)
2023	Aaron Zeeb (NIU, M.S.)
2023	Margo Andrews (NIU, M.S.)
2023	Sylvia Stinnett (NIU, M.S.)
2023	Kris Kaminski (NIU, M.S.)
2022	Michael Broussard (LSU, M.S)

Mentorship (Continued)

M.S. / Ph.D. Committee Member

2021	Chris Battisto (NIU, M.S.)
2021	Ashley Autore (LSU, M.S.)
2020	Marisa Karpinski (LSU, M.S.)
2020	Bienvenu Massamba (LSU; M.S.)
2020	Rupsa Bhowmick (LSU, Ph.D.)

Undergraduate Independent Study

2023	Rachel Schmitt; Analyzing tornadoes and storm mode classifications in a Jupyter Notebook
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Instructor of Record History (Combined graduate and undergraduate sections in bold)

	2014	2015	2016	2017
Spring		a	*	a, b
Fall	a	*	a, b	*

	2018	2019	2020
Spring	*	c, e	c, g
Fall	c, d	c, f	c, h

	2021	2022	2023
Spring	c, e	j , **	j , **
Fall	i , **	k , **	k , **

- a: Northern Illinois University, Introduction to the Atmosphere (GEOG 105)
- b: Northern Illinois University, Practicum in Weather Analysis and Forecasting (MET 475)
- c: Louisiana State University, Physical Geography: The Atmosphere (GEOG 2050)
- d: Louisiana State University, Special Topics in Geography (GEOG 4997)
- e: Louisiana State University, Methods of Climatological Analysis (GEOG 4016)
- f: Louisiana State University, Climatology (GEOG 4014)
- g: Louisiana State University, Physical Climatology (GEOG 4015)
- h: Louisiana State University, Hazard Risk Reduction (GEOG 4200)
- i: Northern Illinois University, Severe and Hazardous Weather (GEOG 306)
- j: Northern Illinois University, Computer Programming for the Geosciences (GEOG 493/593)
- k: Northern Illinois University, Regional/Advanced Climatology (GEOG/EAE 370/670/671)

*: Graduate Research Assistantship

** : Externally Funded Course Release

Updated on January 4th, 2024