

# Michael Michaud

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## EDUCATION

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Disaster Science and Management, Ph.D. **Anticipated 2023** *University of Delaware, Newark, DE*

- Working Dissertation Title: Whose voice matters? Stakeholder involvement in crisis decision-making teams in higher education institutions during COVID-19
- Interest Areas: Weather Hazards, Education, Warnings, Risk Communication, Crisis Management

Educational Leadership and Policy, M.Ed. **May 2016** *University of Utah, Salt Lake City, UT*

- Student Affairs Emphasis
- Capstone Topic: "Do Students Matter During a Time of Crisis? Administrator Response to Major Campus Crisis in Higher Education"

Atmospheric Science, B.S. **May 2011** *Lyndon State College, Lyndonville, VT*

- Specialized Classes: Remote Sensing, Mesoscale Meteorology, Geographic Information Systems, Risk Assessment
- Minor in Physics

## PROFESSIONAL EXPERIENCE

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Graduate Assistant August 2018 – Present *University of Delaware, Newark, DE*

- Conducted a content analysis of 20 National Weather Service (NWS) Service Assessments to offer recommendations and improve assessments for greater social science data collection capacity
- Compiled a technical report of recommendations for the NWS to broadly increase capacity for social science data collection to better understand NWS product outcomes
- Studying the impact of individuals' previous severe weather experience on current perceptions
- Processed and analyzed regional survey data on hurricane protective action perceptions and actions currently under analysis by several external partners
- Conducted over 75 interviews with community members on their impacts and adaptations from the COVID-19 pandemic
- Conducted a content analysis of diversity strategic plans at the top 36 schools of public policy; provided a written brief; and presented to school administration to guide the internal strategic planning process
- Created a campus climate survey for internal stakeholders to assess the sense of belonging and inclusion within the Biden School
- Analyzed focus group data from internal and external stakeholders to find common themes about the identity of the Biden School
- Developed and implemented a survey of values and identity for internal and external stakeholders of the Biden School to guide strategic planning
- Teaching Assistant: Spring 2020 - LEAD100: Introduction to Leadership – 45 students
- Teaching Assistant: Spring 2020 - LEAD404: Leadership in Organizations – 20 students

Strategic Initiatives &

Student Success Manager March 2017 – February 2018 *Neumont College, Salt Lake City, UT*

- Developed institution-wide initiatives and long-term goals based on current research, best practices, and institutional data to improve student success and retention
  - Created institutional reports and recommendations for campus senior leadership on the reasons for student attrition based on survey and interview data
  - Conducted qualitative and quantitative research to identify causes of student attrition and responded with creating institutional changes with internal stakeholders
  - Reviewed Satisfactory Academic Process (SAP) at the end of each term for over 400 students
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- Certified completion of graduation requirements and accuracy of each academic record for 100 students at the end of each quarter
- Increased returning student admission by 125% by streamlining the readmit process and increasing outreach to students who withdrew before finishing their degree
- Supervised, hired, and trained a staff of 25 student Academic Coaches that work closely with faculty to tutor, grade assignments, and provide support within the classroom setting resulting in better student performance
- Adjudicated academic misconduct complaints and assigned educative sanctions to encourage students to understand the impacts of their actions
- Served as the campus Clery Act Coordinator: oversaw the publication of the federally mandated Annual Security and Fire Safety Report; consulted with external agencies to issue timely warnings and emergency notification as required by law; and provided ongoing annual training to Campus Security Authorities

Residence Life Coordinator April 2013 – March 2017

*Neumont College, Salt Lake City, UT*

- Managed the housing program of 350 residents at five separate facilities and its \$1,500,000 budget, including apartment leases valued at \$1,000,000 annually
- Generated housing program population forecasts for use in developing the annual program budget resulting in a 21-23% profit margin
- Developed and implemented yearly stakeholder surveys to assess resident satisfaction and needs
- Facilitated a 40% increase in the number of residents over four years from increasingly positive housing program reviews
- Planned and managed housing logistics of a campus relocation, including the closure of 50 apartments, opening and set up of another 65, and moving 250 students and their possessions in four days
- Recruited, trained, and supervised a staff of six student Resident Advisors including quarterly performance reviews and weekly check-ins to evaluate professional, academic, and developmental progress
- Performed on-call duties on a rotational basis, including emergency response and interventions to protect the life and safety of students
- Planned and facilitated campus-wide Housing Move-In Day and New Student Orientation activities for 180 student attendees and their families

Student Account Representative November 2011 - April 2013

*Strayer University, Salt Lake City, UT*

- Managed a case-load of over 700 students each quarter by tracked and followed up with students about remaining financial aid steps and outstanding balances
- Assisted students with navigating FAFSA and other financial aid applications
- Registered new and continuing students and confirmed financial aid eligibility

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## **PEER REVIEWED PUBLICATIONS**

**Michaud, M. S.**, Dubots, L., & Eosco, G. (Proposal accepted, manuscript in progress) An EPIC dive into social science: An analysis of the community aspects of community modeling. *Bulletin of the American Meteorological Society*.

Cavaliere, P., Cox, Z., Kendra, J., Mankins, A., **Michaud, M.**, Nibbs, F., Popovski, V., & Woody, M. (2020) A research agenda to explore the emergency operations center. *Journal of Emergency Management* 18(6), 525-534.

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## **TECHNICAL REPORTS**

**Michaud, M. S.**, Dubots, L., & Eosco, G. (2021) *An EPIC Project: Social Science Recommendations to Build Community Modeling*. Report prepared for the National Oceanic and Atmospheric Administration Ocean and Atmospheric Research Weather Program Office.

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**Michaud, M. S.**, Trainor, J. E., Philips, B., & League, C. (2020). *SEES Supplemental Report: Social, Behavioral and Economic Science Data in the National Weather Service*. Report contracted by the National Oceanic and Atmospheric Administration National Weather Service.

### **SELECTED PRESENTATIONS**

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Michaud, M. S. & Eosco, G. (2022, July). Community, connection, and collaboration: How putting people first advances technological innovation. Invited Keynote Speaker at the Unifying Innovations in Forecasting Capabilities Workshop, College Park, MD.

Michaud, M. S., Dubots, L., & Eosco, G. (2022, May). An EPIC dive into social science: What is the community of community modeling. Unified Forecast System Webinar Series.

<https://www.youtube.com/watch?v=PG09k8O6cGQ&feature=youtu.be>

Michaud, M. S., Dubots, L., & Eosco, G. (2022, January). An EPIC dive into social science: An analysis of the community aspects of community modeling. *1<sup>st</sup> Symposium on Earth Prediction Innovation and Community Modeling*. Oral presentation during the American Meteorological Society Annual Meeting, Virtual.

Michaud, M. S., (2022, January). Who are we? Considering the “community” of social, behavior, and economic scientists and practitioners in the weather enterprise. *17<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*. Oral presentation during the American Meteorological Society Annual Meeting, Virtual.

Michaud, M. S. (2021, September). Community Modeling: What Does it Mean? Oral presentation during the American Meteorological Society Summer Community Meeting, Virtual.

Michaud, M. S. (2021, September). An EPIC Dive into Social Science: An Analysis into the Community Aspects of Community Modeling. Invited presenter to the Unified Forecast System Steering Committee meeting.

Michaud, M. S. (2021, August). An EPIC Dive into Social Science: An Analysis into the Community Aspects of Community Modeling. Oral presentation at the William M. Lapenta Internship Virtual Conference.

Michaud, M. S., Berndt, V., Cox, Z., & Henry, F. (2020, November). Hindsight is 2020: The Science of Disaster. Webinar presentation to University of Delaware Associate in Arts Program students, Newark, DE.

Michaud, M. S., Trainor, J. E. (2020, January). NWS service assessments: A social, behavioral, and economic science review. *15<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*. Oral presentation during the American Meteorological Society Annual Meeting, Boston, MA.

Sherman-Morris, K., Michaud, M. S., Demuth, J. L., Friedman, J. R., Hooke, W., & Sprague-Hilderbrand, J. (2020, January). Social science and the weather enterprise: Progress and future directions. *15<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*. Panel discussion during the American Meteorological Society Annual Meeting, Boston, MA.

Michaud, M. S. (2019, July) April 29 2017 East Texas Tornado Event. Oral presentation at the NCAR Advanced Study Program Colloquia in Boulder, CO.

Michaud, M. S. (2016, March) Do Students Matter During a Time of Crisis? Administrator Response to Major Campus Crisis in Higher Education. Poster presentation at the College of Education Student Research Fair at the University of Utah, Salt Lake City, UT.

Atkins, N. T., & Michaud, M. S. (2011, March). The Lagrange Tornado During VORTEX2. Part II: Photogrammetry Analysis of the Tornado Combined with Dual-Doppler Radar Data. Oral presentation during the Northeast Storm Conference in Taunton, MA.

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Johnson, C., Michaud, M. S., & Atkins, N. T. (2011, January) Comparison of Dual-Doppler Radar Data and Photogrammetric Images of the 5 June 2009 Goshen County, Wyoming Tornado during VORTEX2. *AMS Student Conference*. Poster presentation during the American Meteorological Society Annual Meeting, Seattle, WA.

## **INTERNSHIP EXPERIENCE**

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William M. Lapenta Internship June 2021 – August 2021 *NOAA/OAR/Weather Program Office, Remote*

- Led an initiative to understand the social elements of community modeling by applying social science methods and models to understand the needs of community modeling stakeholders
- Interviewed 14 key stakeholders in the UFS and Earth Prediction Innovation Center (EPIC) community using semi-structured interviews
- Analyzed interview qualitative data to propose standard elements of a “community modeling” definition which will set the standard for community modeling of the future
- Prepared a report with recommendations for the EPIC team leadership to serve as a foundation for developing community engagement
- Presented findings, recommendations, and applications to internal and external stakeholder groups including key UFS and EPIC administrators, NOAA Administrators, and national meetings

First Year Experience Office May 2015 - August 2015 *Salt Lake Community College, Taylorsville, UT*

- Designed, presented, and defended curriculum for a first-year seminar based on student development theories and pedagogical models for students from underrepresented backgrounds
- Participated in and assessed first-year experience programming and activities
- Observed meetings and interactions related to leadership, advising, and department management

Research Assistant May 2010 - May 2011 *Lyndon State College, Lyndonville, VT*

- Interpreted and collected data during the 2010 VORTEX2 tornado field experiment to better understand the development of tornadoes
- Created photogrammetric analysis of atmospheric variables with Doppler Radar overlays using FORTRAN and NCAR Command Language resulting in the first examination of angular momentum around tornadic structures
- Presented findings to technical and non-technical audiences at national and local conferences

## **COMMITTEES AND LEADERSHIP EXPERIENCE**

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Graduate College Council August 2021 – Present *University of Delaware, Newark, DE*

- Representative for the Biden School of Public Policy and Administration
- Reviewed interdisciplinary programs for entry into the Graduate School to promote student representation, inclusion, and equity

AMS Board on Societal Impacts January 2019 – Present *American Meteorological Society*

- Student member
- Developing a policy memo on the importance of incorporating social, behavioral, and economic sciences in the weather enterprise

Biden School Student Association President May 2021 – May 2022 *University of Delaware, Newark, DE*

- Representing the student voice to Biden School leadership through ongoing communication with student stakeholders and presenting student concerns to School leadership
  - Communicating between internal and external stakeholders to improve the student experience and a sense of belonging within the Biden School culture through regular emails, townhalls, and casual meetings
  - Designed and implemented stakeholder surveys to better understand the needs of students
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- Implemented community activities based on student needs, including professional workshops, academic speakers, mentoring opportunities, and diversity and equity initiatives
- Revised organizational bylaws to create additional representation for students in all academic programs in the school

IAEM – Univ. of Delaware Chapter President May 2020 – May 2021 *University of Delaware, Newark, DE*

- Grew membership by 25% including doubling the number of undergraduate members through increased outreach and engagement
- Communicated important information and chapter business with internal and external stakeholders through email, meetings, and discussion boards
- Designed and implemented stakeholder surveys to better understand the needs of members to better design activities and professional development opportunities
- Planned, coordinated, and facilitated four speaker and two panelist events including subject matter experts including the Delaware Lt. Governor, Federal Emergency Management Agency Region III administrator, and Director of the Delaware Emergency Management Agency

IAEM – Univ. of Delaware Chapter Treasurer January 2019 – May 2020 *University of Delaware, Newark, DE*

- Managed the budget, expenditures, and income for the chapter with a total net increase of \$400, with over \$1800 saved for future years
- Planned, coordinated, and facilitated four funding raising operations for the chapter, raising \$3000

Campus Security Committee Chair June 2016 – February 2018 *Neumont College, Salt Lake City, UT*

- Facilitated discussion between committee members and third-party security and community agencies
- Reviewed and planned annual training and practice initiatives for staff and students to meet Higher Education Opportunity Act guidelines
- Wrote yearly Annual Security & Fire Safety Report with required policies and campus crime statistics
- Continuously reviewed and updated emergency procedures and policies to ensure accurate information in the event of a crisis
- Planned and implemented first campus safety training sessions for students and staff to increase the level of awareness for all community members
- Planned and lead yearly campus lock-down and evacuation drills that got increasingly faster over time

Peer Leader Program Manager May 2014 - July 2016 *Neumont College, Salt Lake City, UT*

- Developed a retention-focused program to provide peer-mentorship for first-year students
- Supervised and trained a staff of 6-7 Peer Leaders over the duration of the 9-month program

## **PROFESSIONAL DEVELOPMENT**

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Advanced Study Program Colloquia July 2019 *National Center for Atmospheric Research, Boulder, CO*

- Two-week inter-disciplinary workshop of 25 students on Quantifying and communicating uncertainty in high-impact weather prediction

Mitigation and Insurance Workshop September 2019 *University of Delaware, Newark, DE*

- Facilitated four focus group interviews of 6-8 participants capturing written notes on the discussion about mitigation efforts for hurricane impacts in the Delaware region

## **AWARDS & RECOGNITION**

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Corlett Nagel Family Enrichment Fund Fellow, **2022** *University of Delaware, Newark, DE*

American Meteorological Society Student Travel Grant, **2022** *AMS, Milwaukee, WI*

IAEM Student Chapter of the Year while President, **2021** *University of Delaware, Newark, DE*

15<sup>th</sup> Symposium on Societal Applications 3<sup>rd</sup> Place Student Presentation Award, **2020** *AMS, Boston, MA*

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Service Excellence Award, **2012**  
Gill Ford Award for Scholarship and Leadership, **2011**  
Alumni Council Outstanding Graduating Senior Award, **2011**

*Strayer University, Salt Lake City, UT*  
*Lyndon State College, Lyndonville, VT*  
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**PROFESSIONAL ASSOCIATION MEMEBRSHIPS**

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American Meteorological Society (AMS)  
International Association of Emergency Managers (IAEM)

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