

Amber J. Liggett

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EDUCATION

Master of Science, Emergency Management, Millersville University, Millersville, PA 2020

Bachelor of Science, Meteorology, Millersville University, Millersville, PA 2018

- Cum Laude Honors
- Minor in Mathematics

EXPERIENCE

Public Information Officer 2020

Pennsylvania Department of Health, Harrisburg, PA

Provides day-to-day and incident-specific communications and emergency preparedness and response consultation.

- Develops material for use in media briefings during an incident
- Informs the media and conduct media briefings during an incident
- Manages media and public inquiries during an incident
- Evaluates the need for and, as appropriate, establish and operate a joint information center to coordinate and disseminate accurate and timely incident-related information
- Maintains current information summaries and/or displays on the incident
- Provides information on the status of the incident to assigned personnel
- Coordinates emergency public information and warnings
- Monitors media reporting for accuracy
- Reviews incident communications plans and ensure they are current
- Organizes and execute recognition and awareness events for Emergency Medical Services, health volunteers and other events as needed
- Represents DOH at local and national health communication organizations
- Represents DOH at local, statewide and federal emergency preparedness drills
- Establishes and maintain relationships with local health department PIOs
- Conducts communications training for local PIOs and health professionals
- Works with the Opioid Operational Command Center to facilitate communications and events
- Develops and implement communications strategies to raise public awareness about emerging infectious diseases
- Develops and maintain dark websites

Emergency Management Consultant 2020

Protective Security Advisors, Omaha, NE

Provide temporary technical assistance in the development of proprietary Homeland Security Exercise and Evaluation Program (HSEEP)-Compliant Documents.

- Develop a public private partnership tabletop exercise for small and medium-sized businesses
- Prepare presentations, documents, and checklists
- Analyze documentation for identification of improvement areas

Freelance Broadcast Meteorologist 2018 – Present

WHTM-TV, Harrisburg, PA

Provide on-air forecasts for the Susquehanna Valley.

- Forecast and produce clear and concise weather forecasts.
- Develop a forecast discussion and weather graphics using Weather Services International (WSI) for on-air, web, and social media.
- Engage with and communicate risk to the local residents of the region about impending weather on social media and on-air.
- Co-anchor news segments on weekend mornings.

Graduate Assistant 2018 – 2020
Center for Disaster Research & Education (CDRE), Millersville, PA
Assist the CDRE faculty with administrative activities, and emergency management research and projects.

- Co-coordinated a campus-wide Preparedness Day event.
- Managed and facilitated the Community Emergency Response Team (CERT) training program for students, staff, faculty, and community members.
- Updated the hazardous weather section of the campus Emergency Operations Plan.
- Worked with National Weather Service (NWS) Weather Forecast Office (WFO) State College on the campus StormReady® application.
- Identified natural hazards for the campus Hazard Identification and Risk Assessment (HIRA).
- Co-planned the International Association of Emergency Managers (IAEM-USA) Region III 2019 Symposium.

Global Weather and Climate Center Reporter 2017 – 2018
Online
Composed articles about weather and climate events and their societal impacts including

- Air quality improvements
- Review of hurricane seasons
- Weather mythbusters
- How to warn a severe storm at the NWS
- Weather impacts on the human body
- Facts about weather phenomena

Consultant – Public Speaking 2014 – Present
Various Locations
Create and present formal presentations to communicate weather science information, disaster preparedness, and natural hazard safety for different audiences including:

- FEMA Region III CPC Harrisburg
- Grade school and high school-aged students
- Students with access and functional needs

Consultant - Workshops 2009 – Present
Various Locations
Teach balloon making, entrepreneurship, music, weather, and hazard/disaster classes to students, including students with access and functional needs.

- Created and instructed weather and music classes at the annual Community College of Beaver County Autism Summer Camp.
- Developed and instruct workshops for grade school through high school-aged students on weather conditions and instruments.
- Developed and instruct workshops for grade school through high school-aged students on the various types of disasters, hazards, and preparedness measures.

Founder & CEO 2005 - Present
Amber's Amazing Animal Balloons, Beaver, PA
Manage and operate a small entertainment business.

- Provide a unique entertainment and education forum at parties, events, and workshops.
- Market the company on social media and at networking events.
- Entertain people of all ages with a variety of services from balloon art to sand art.
- Create customized special occasion balloon baskets and themed-sculptures.
- Influence and motivate young people to be their own boss and foster creativity through public speaking.

INTERNSHIPS AND RESEARCH EXPERIENCE

Student Researcher for Field Experience Practicum 2019 - 2020
Millersville University Center for Disaster Research & Education (CDRE), Millersville, PA

- Evaluated local flood risk perceptions and use of flood safety messaging in Lancaster County, PA through focus groups and interviews for field experience practicum.
- Consulted local emergency managers and meteorologists (e.g. broadcast meteorologists and NWS WFO State College) about the local understanding and use of flood information for field experience practicum.
- Developed the North American Humanitarian Response Initiative (NAHRI) Resource Center and associated data management plan with a research team of students and faculty.
- Contributed to identification of resource materials and related data.

Significant Opportunities in Atmospheric Research & Science (SOARS) Second Year Protégé 2018
National Weather Service (NWS) Weather Forecast Office (WFO) Denver/Boulder, Boulder, CO

- Worked locally at NWS WFO Denver/Boulder with the NOAA national Weather-Ready Nation Ambassador® initiative.
- Developed a protocol for NWS WFO Denver/Boulder to support NWS partners with education, outreach, and other weather, water, and climate-related decision-making and partner engagement materials.
- Prepared a scientific paper, poster, and presented study at a colloquium.

Weather Intern 2018
WGAL-TV News 8, Lancaster, PA

Assisted on-air WGAL-TV Weather Department meteorologists with forecasting and outreach.

- Created and updated weather graphics using WSI.
- Posted daily weather updates to social media.
- Assisted on-air meteorologists with forecasting and outreach.
- Developed a professional weather reel on the Chromakey.

NOAA Hollings Scholar 2017
NWS Headquarters, Silver Spring, MD

- Developed NWS Education materials for social media and educators.
- Recruited Weather-Ready Nation Ambassadors.
- Revamped NWS Seasonal Campaign material.
- Wrote and directed informational NWS videos.
- Conducted outreach about NWS summer safety and careers.

Significant Opportunities in Atmospheric Research & Science (SOARS) First Year Protégé 2016
NOAA Earth Science Research Laboratory (ESRL), Boulder, CO

Conducted original research using the short-term experimental High-Resolution Rapid Refresh Ensemble (HRRRE) weather forecasting model.

- Prepared a scientific paper, poster, and presented research at a colloquium.

Research Experience for Undergraduates at the National Weather Center Intern 2015
Radar Innovations Laboratory (RIL), Norman, OK

Conducted original research at the University of Oklahoma RIL.

- Had hands-on experience of the acquisition, processing, and visualization of the operational products from polarimetric Weather Surveillance Radar 1988 Doppler (WSR-88D).
- Used the basic ideal of a fuzzy inference system, an artificial intelligence research and soft computing method.

SELECTED VOLUNTEER / NON-PROFIT ACTIVITY

IAEM-USA Diversity Committee, USA 2019 - Present

- Providing effective and useful information to IAEM members at all levels regarding research and trends on diversity and inclusion that can improve the delivery of concepts, communications and services to different populations including vulnerable populations.

American Meteorological Society (AMS) Committee on Emergency Management, USA. 2019 - Present

- Develop approaches that engage the AMS weather, water and climate enterprise with the broader emergency management community on decision-making and best communication practices before a disaster.

IAEM Chapter President, Millersville University 2018 - 2019

- Led the Chapter and manages its activities in accordance with the policies and procedures the Region, the IAEM-USA, the IAEM, and this Chapter's Constitution.

National Weather Association (NWA) Director, USA 2018 - Present

- Represent the voice of all student NWA members and guide all Association decisions on the Board of Directors.
AMS Local Chapter Affair Committee, USA 2017 – 2020
- Oversees all local chapters of the AMS since 2017 and serving as the Chair in 2019.
Climate Action Plan Subcommittee, Millersville University 2017 – 2018
- Advancing a culture of sustainability on campus by providing a framework to achieve carbon neutrality by 2040.
NWA Student Conference Planning Committee, USA 2016 – Present
- Organize the sessions and events for the NWA Student Conference during the Annual Meeting.
AMS Student Chapter President, Millersville University 2016 – 2017
- Set the agenda for the academic year, provided ongoing leadership, and delegated duties, as needed, to other officers.
AMS Student Chapter Treasurer, Millersville University, PA 2015 – 2016
- Handled all the finances for the Chapter and secured external funding through fundraising events.
Campus Weather Service Lead and Streaming Video Forecaster, Millersville University 2014 - 2018
- Provided weather forecasts for the Susquehanna Valley.
Weather Watch Talent, Millersville University, PA 2014 – 2018
- Wrote and broadcasted educational and informational weather-related stories.
PA State Senator Elder Vogel’s Business Advisory Board, Rochester, PA 2012 – Present
- Serve as the voice of youth in Pennsylvania Senator District 47.

PRESENTATIONS AND PUBLICATIONS

- “Expert Judgment Versus Yours: Understanding Local Flood Risk Perceptions”, NWA 45th Annual Meeting, Online, 2020
- “Expert Judgment Versus Yours: Understanding Local Flood Risk Perceptions”, AMS 100th Annual Meeting, Boston, MA, 2020
- “An Overview of the Millersville University Emergency Management Programs and Activities”, IAEM-USA Region III Symposium, Millersville, PA, 2019
- “Weather-Ready Nation: Care Model Development for Ambassadors”, AMS 99th Annual Meeting, Phoenix, AZ, 2019
- “Building a Weather-Ready Nation through the Integration of Communication and Education”, 18th Annual AMS Student Conference & AMS 98th Annual Meeting, Austin, TX, 2018
- “Developing a Quantitative Measure of Convective Forcing to Evaluate High Resolution Rapid Refresh Ensemble (HRRRE) Variance”, AMS 97th Annual Meeting, Seattle, WA, 2017
- “Developing a Quantitative Measure of Convective Forcing to Evaluate High Resolution Rapid Refresh Ensemble (HRRRE) Variance”, AMS 28th Conference on Severe Local Storms, Portland OR, 2016
- “Gust Front Detection Using Neuro-Fuzzy Algorithm with Polarimetric WSR-88D”, 16th Annual Student Conference during AMS 96th Annual Meeting, New Orleans, LA, 2016
- Unpublished manuscript available at: <http://www.caps.ou.edu/reu/reu15/FinalPapers/Liggett.pdf>

CERTIFICATIONS/TRAININGS

- FEMA Independent Study (I.S.) Course 1300: Introduction to Continuity Operations 2020
- FEMA National Emergency Management Basic Academy 2019
- FEMA Professional Development Series 2019
- AMS Summer Policy Colloquium 2019
- FEMA Course E0101: Foundations of Emergency Management 2019
- FEMA Course E0102: Science of Disasters 2019
- FEMA Course E0103: Planning: Emergency Operations 2019
- FEMA Course E0105: Public Information and Warning 2019
- FEMA Course E0146: Homeland Security Exercise and Evaluation Program 2019
- FEMA I.S. Course 005.A: An Introduction to Hazardous Materials 2019
- FEMA I.S. Course 100.C: Introduction to the Incident Command System 2018
- FEMA I.S. Course 120.C: An Introduction to Exercises 2018

• FEMA I.S. Course 130.A: How to be an Exercise Evaluator	2018
• FEMA I.S. Course 200.C: Basic Incident Command System for Initial Response	2019
• FEMA I.S. Course 201: Forms Used for the Development of the Incident Action Plan	2018
• FEMA I.S. Course 230.d: Fundamentals of Emergency Management	2018
• FEMA I.S. Course 235.C: Emergency Planning	2019
• FEMA I.S. Course 240.B: Leadership and Influence	2019
• FEMA I.S. Course 241.B: Decision Making and Problem Solving	2019
• FEMA I.S. Course 242.B: Effective Communication	2019
• FEMA I.S. Course 244.B: Developing and Managing Volunteers	2019
• FEMA I.S. Course 393.B: Introduction to Hazard Mitigation	2019
• FEMA I.S. Course 454: Fundamentals of Risk Management	2019
• FEMA I.S. Course 523: Resilient Accord–Exercising Continuity Plans for Cyber Incidents	2019
• FEMA I.S. Course 546.A: Continuity of Operations (COOP) Awareness	2019
• FEMA I.S. Course 547.A: Introduction to Continuity of Operations	2019
• FEMA I.S. Course 700.B: An Introduction to the National Incident Management System	2018
• FEMA I.S. Course 775: Emergency Operations Center Management and Operations	2018
• FEMA I.S. Course 800.C: National Response Framework, an Introduction	2018
• FEMA I.S. Course 860.C: The National Infrastructure Protection Plan, An Introduction	2019
• FEMA I.S. Course 906: Basic Workplace Security Awareness	2019
• FEMA I.S. Course 921.A: Implementing Critical Infrastructure Security and Resilience	2019
• FEMA I.S. Course 2900.A: National Disaster Recovery Framework (NDRF) Overview	2019
• FEMA CERT Training	2017
• Responsible Conduct of Research/Professional Ethics Training	2015

SCHOLARSHIPS AND AWARDS

- NWA Broadcast Meteorology Scholarship
- Association for Women Geoscientists (AWG) Minority Scholarship
- The National Oceanic and Atmospheric Administration (NOAA) Hollings Scholarship Program
- ThermoFisher Scientific STEM Scholarship
- NWA David Sankey Minority Scholarship in Meteorology
- AMS Freshman Undergraduate Scholarship
- NEED Scholarship
- Josh Gibson Foundation Scholarship
- The Promise Award: Youth Achievement Award
- G.I.B.S.O.N. Award (for business accomplishments)
- Shyne Award for Entrepreneurship
- National Black Enterprise Teenpreneur Award (top teen entrepreneur in the nation)
- Rising Star of Beaver County Award
- Global Young Entrepreneur of the Year Award
- Ernst & Young’s Young Entrepreneur of the Year Award

HONOR SOCIETY MEMBERSHIPS

- Phi Eta Sigma National Honor Society
- National Society of Leadership and Success
- National Society of High School Scholars

SPECIAL ACCOMPLISHMENTS

- Dean’s List for The College of Science and Technology
- Featured on two episodes of PBS’s nationally syndicated BizKid\$ Television program
- Featured on an episode of WQED’s Pittsburgh 360 (PBS)
- Roots Young Futurist (recognized as a top 25 young innovator in the US by The Washington Post)
- Recipient of the Network For Teaching Entrepreneurship’s Global Young Entrepreneur of the Year

- Recipient of Ernst & Young's Young Entrepreneur of the Year