Dr. Castle A. Williams

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EDUCATION

The University of Georgia, Franklin College of Arts and Sciences — Athens, GA

Ph.D. in Geography — Expected August 2020
Defended: June 5, 2020

- Advisor: Dr. Andrew Grundstein
- Dissertation: *Should severe weather graphics wear a uniform? Exploring the effects of visual and spatial inconsistencies on end use risk perception, uncertainty, and behavioral intentions.*

Masters of Science in Geography — 2014- 2016

- Advisor: Dr. Andrew Grundstein
- Thesis: *Children forgotten in hot cars: A hybrid mental models approach for improving public health messaging*

Undergraduate Certificate in Atmospheric Sciences — 2009-2014

Bachelor of Science in Geography — 2009-2014

Bachelor of Science in Psychology — 2009-2014

RESEARCH INTERESTS

Weather & Risk Communication, Societal Impacts of Weather, Research to Operations and Operations to Research, Behavioral Geography, Atmospheric Hazards.

RELEVANT COURSEWORK

- Meteorology and Atmospheric Sciences
- Risk Communication
- Health Communication
- Persuasion Communication
- Survey Research
- Qualitative Methods
- Quantitative Methods
- Disaster Management
- Geographic Information Systems

WEATHER ENTERPRISE EXPERIENCE

Impact360 Alliance

Inaugural Steering Committee Member — April 2017-Present

- Responsible for supporting and stewarding Impact360's three pillars: (1) aiming to make the boundaries between research and practice more permeable, (2) supporting the development of strong points of connection between researchers and practitioners, and (3) working to foster partnerships that encourage R2O and O2R collaborations and solutions.

American Meteorological Society – Committee on Effective Communication of Weather and

Climate Information Athens, GA

Student Member January 2017-Present

- Charged with facilitating and discussing relevant (and often challenging) issues that pertain to the effective communication of weather, water, and climate information within our sciences and to the larger user community, especially our most important 'user,' the general public.

Weather Hype – A podcast about weather, climate, and how it affects you Athens, GA

Co-Founder March 2016-Present

- Weather Hype highlights the human dimensions of weather and climate on a platform where people can easily tune in, walk away with new ideas, and get a fresh perspective on the world of weather and its far-reaching impacts on society.
- Created monthly audio podcast that explored the connections and relatable impacts of weather and climate on our everyday lives.
- Scheduled interviews and produce content with both practitioners and researchers in meteorology, climate, and social science.
- Edited audio podcasts using Audacity software for publication on iTunes, Google Play, and other podcasting apps.
- Developed branding materials for promoting podcast through self-maintained website and social media.

National Weather Association – Committee on Societal Impacts Athens, GA

Committee Member January 2016- January 2019

- Advised and served the National Weather Association (NWA) in matters related to societal impacts of weather and climate.
- Raised awareness, encouraged, and supported efforts within the NWA relating to societal impacts of weather and climate.
- Supported the application of social science principles into operational meteorology and decision support for hazardous weather and high impact events, as well as day-to-day forecasting and operations.
- Developed and strengthened relationships between social scientists, operational meteorologists, and decision makers, particularly those responsible for public safety.

Weather and Society * Integrated Studies (WAS*IS) Students Organization Athens, GA

Co-Founder January 2015-Present

- Established organization to bring together students passionate about social science in weather and climate.
- Maintain social media presence for organization and update members on relevant opportunities and events.
- Host events at American Meteorological Society annual meetings to advertise our organization.

PEER- REVIEWED PUBLICATIONS

- **Williams, C. A.,** Grundstein A. J., and J. So: "Inconsistencies make me question the forecast" Using graphical weather information to understand the public's message consistency evaluation process. *In preparation.*

- **Williams, C. A**., and G. M. Eosco. Is a consistent message achievable? Defining 'message consistency' for weather enterprise researchers and practitioners. *Bulletin of the American Meteorological Society (BAMS). In Review.*

- **Williams, C.A**., and A. J. Grundstein (2017). Children Forgotten in Hot Cars: A mental models approach for improving public health messaging. *Injury Prevention.* 24(4), 279-287. doi: 10.1136/injuryprev-2016-042261

- **Williams, C.A**., Miller P. W., Black A. W., J. A. Knox (2017). Throwing caution to the wind: National Weather Service wind products as perceived by a weather-salient sample. *Journal of Operational Meteorology.* 5(9), 103-120.

- Miller, P.W., Black A. W., **Williams C. A.**, and J. A. Knox (2016). Maximum wind gusts associated with human-reported nonconvective wind events and a comparison to current warning issuance criteria. *Weather and Forecasting.* 31(2), 451-465.

- Miller, P.W., Black A. W., **Williams, C.A**., and J. A. Knox (2016). Quantitative assessment of human wind speed overestimation. *Journal of Applied Meteorology and Climatology.* 55(4), 1009-1020. doi: http://dx.doi.org/10.1175/waf-d-15-0112.1

- Stewart, A.E., **Williams, C.A**., Phan, M.D., Horst, A.L., Knox, E., and J. A. Knox. (2016). Through the Eyes of the Experts: Meteorologists' Perception of the Probability of Precipitation. *Weather and Forecasting*, 31(1), 5-17. doi: http://dx.doi.org/10.1175/waf-d-15-0058.1

- Grundstein, A.J., **Williams, C.A**., Phan, M.D., and B. Cooper. (2015). Regional Heat Safety Thresholds for Athletics. *Applied Geography*, 56, 55-60. doi: http://dx.doi.org/10.1016/j.apgeog.2014.10.014

BOOK CHAPTERS

- Grundstein, A.J., and **C. A. Williams** (2018). Heat exposure and the general public: Health impacts, risk communication, and mitigation measures. In *Human Health and Physical Activity During Heat Exposure* (pp. 29-43). Springer, Cham. Available online at: https://link.springer.com/chapter/10.1007/978-3-319-75889-3_3

REPORTS AND POLICY DOCUMENTS

- Grundstein, A.J., So, J., and **C. A. Williams** (2019, July). A qualitative look at the Storm Prediction Center's Day 1 Convective Outlook Among Members of the Public. Available online at: https://drive.google.com/file/d/1AFaCWHR_CLcbwJbhvOVa-Y1DPM1xRu3R/view?usp=sharing

- **Williams, C. A.** (June 2018). Hazard Simplification Project: Generalizable Survey for Excessive Heat and High Winds. Available at:

https://drive.google.com/file/d/1o6ivfnLbLVAI1_22E9IjBu2I_xfQMmgk/view?usp=sharing

OTHER PUBLICATIONS

- **Williams, C.A**. and P.W. Miller, (2016, September). Fighting fatigue: The role of warning frequency in the weather enterprise. *The Weather Social*: https://thewxsocial.com/2016/09/09/fighting-fatigue-the-role-of-warning-frequency-in-the-weather-enterprise/
- Stewart, A. E., **C. A. Williams**, M. D. Phan, A. L. Horst, E. D. Knox, and J. A. Knox. (2016) Through the experts' eyes: Meteorologists' perceptions of the probability of precipitation. *Bulletin of the American Meteorological Society*, 97, 905. (Papers of Note summary)
- WeatherHype Podcast: A podcast for casual weather conversation. Hosted by **Castle Williams** and Minh Phan. This podcast tackles important weather/society-related stories to educate listeners in a very informal, unstructured way. Available on iTunes, Google Play, Stitcher, and other podcast applications: http://www.weatherhypepodcast.com/

FELLOWSHIPS & FUNDING

Grants:

- **Implications of inconsistent visual displays on end user uncertainty, risk perception, and behavioral intentions,** A Grundstein, J. So, and *C.A Williams*. Joint Technology Transfer Initiative (JTTI), National Oceanic and Atmospheric Administration ***($178,203)*** 2018-2020

Fellowships:

- **Graduate Research Internship Program,** *In partnership with National Science Foundation and National Weather Service* ***($5,000)*** 2017-2018
- **Graduate Research Fellowship,** *National Science Foundation* ***($138,000)*** 2015-2020
- **AMS Graduate Fellowship,** *American Meteorological Society* ***($25,000)*** 2014-2015

Scholarships:

- **AMS Named Scholarship,** *American Meteorological Society* ***($2,000)*** 2013-2014
- **Merle C. Prunty, Jr. Scholarship,** *UGA Department of Geography* ***($2,000)*** 2011-2012

CONFERENCE PRESENTATIONS

Presentations at Professional Meetings:

- **Williams, C. A.** (2020, March). Invited speaker for the NOAA Central Region Collaboration Team's Three-Minute-Thesis Webinar on the Value of Social Science Research to Weather Forecasting. *Why is message consistency important?* Available online at: https://www.youtube.com/watch?v=Fv3vziX37H0&feature=youtu.be
- **Williams, C.A.,** Grundstein, A.J, and So, J. (2020, January). *Should Severe Weather Graphics Wear Uniforms? Understanding the Effects of Inconsistent Convective Outlook Graphics on Members of the Public.* Oral presentation at the American Meteorological

Society Annual Meeting, Boston, MA. Received First Place Presentation Award from the 15th Symposium on Societal Applications: Policy, Research, and Practice.

- **Williams, C.A.,** Grundstein, A.J, and So, J. (2019, June). *Should Severe Weather Graphics Wear Uniforms? A Qualitative Look at the SPC's Convective Outlook Graphic Among Members of the Public.* Oral presentation at the American Meteorological Society Broadcast Meteorology and Warning Communication Conference, San Diego, CA.

- **Williams, C.A.,** and Grundstein, A.J. (2019, January). *Is a Consistency Message Achievable? A Multidisciplinary Look at Defining 'Consistency' in the Weather Enterprise.* Oral presentation at the National American Meteorological Society Conference, Phoenix, AZ.

- **Williams, C.A.,** and Grundstein, A.J. (2018, January). *Consistency and Weather Communication: A Multidisciplinary Perspective on the Use of "Consistency."* Oral presentation at the UGA Geography Graduate Research Symposium, Athens, GA. Received Best Presentation Award.

- **Williams, C.A.,** and Grundstein, A.J. (2018, January). *Consistency and Weather Communication: A Multidisciplinary Perspective on the Use of "Consistency."* Oral presentation at the National American Meteorological Society Conference, Austin, TX.

- **Williams, C.A.,** Sprague J., Eosco, G.M., Jacks, E., Hawkins, M., Pirring, A.T., and Klockow, K.E. (2018, January). *Expanding the NWS Hazard Simplification Project: An Exploration of Non-Precipitation Products.* Oral presentation at the National American Meteorological Society Conference, Austin, TX.

- Hawkins, M., Jacks, E., Ferrell J.G., Horvitz, A., Pirring, A.T., **Williams, C.A**., and Eosco, G.M. (2018, January). *NWS Hazard Simplification: Effective Communication of Heat Hazards.* Oral presentation at the National American Meteorological Society Conference, Austin, TX.

- **Williams, C.A.,** and Grundstein, A.J. (2016, January). *Turning up the Heat on Parents and Caregivers: Risk Perceptions of Forgetting a Child in a Hot Car.* Oral presentation at the National American Meteorological Society Conference, New Orleans, LA. Received a Student Presentation Award from the Seventh Conference on Environment and Health.

- **Williams, C.A**., Miller, P.W., Black, A.W., and Knox, J.A. (2016, January). *Throwing Caution to the Wind: National Weather Service Wind Products as Perceived by a Weather-Savvy Public.* Oral presentation at the National American Meteorological Society Conference, New Orleans, LA. Received Third Place at Large from the 11th Symposium on Societal Applications: Policy, Research, and Practice.

- **Williams, C.A**., Miller, P.W., Black, A.W., and Knox, J.A. (2015, October). *Throwing Caution to the Wind: A Weather-Savvy Perspective on Wind Terminology and Wind Damage.* Poster presentation at the National Weather Association Conference, Oklahoma City, OK.

- **Williams, C.A**., Phan, M.D., Grundstein, A.J., Cooper, B. (2015, January). *A Proposed Regional System of Categorizing Wet Bulb Globe Temperature for Athletic Outdoor Policy.* Oral presentation at the National American Meteorological Society Conference, Phoenix, AZ.

- **Williams, C. A**., Stewart, A.E., Phan, M.D., Horst, A.L., Knox, E., Knox, J.A. (2015,

January). *Through the Eyes of the Experts: The Perception of the Probability of Precipitation.* Poster session presented at the National American Meteorological Society Student Conference, Phoenix, AZ.

- **Williams, C.A**., Phan, M.D., Grundstein, A.J., Cooper, B. (2014, October). *Geographically-Based Heat Safety Thresholds in Athletics.* Oral presentation at the Conference of Applied Geography, Atlanta, GA.

- Phan, M.D., **Williams, C.A**., Grundstein, A.J., Cooper, B. (2014, September). *A Proposed Regional System of Categorizing Wet Bulb Globe Temperature for Athletic Outdoor Policy.* Oral presentation at the International Congress of Biometeorology, Cleveland, OH.

- **Williams, C. A**., Stewart, A.E., Horst, A.L., Phan, M.D., Knox, E., Brough, B., Knox, J.A. (2014, April). *Through the Eyes of the Experts: The Perception of the Probability of Precipitation.* Poster session presented at University of Geography - Geography Undergraduate Conference, Athens, GA.

- **Williams, C. A**., Stewart, A.E., Horst, A.L., Phan, M.D., Knox, E., Brough, B., Knox, J.A. (2014, February). *Through the Eyes of the Experts: The Perception of the Probability of Precipitation.* Oral presentation at the National American Meteorological Conference, Atlanta, GA.

- Phan, M.D., **Williams, C.A**., Grundstein, A.J., Cooper, B. (2014, February). *Regional WBGT Heat Safety Thresholds for Athletics.* Poster session presented at the National American Meteorological Student Conference, Atlanta, GA.

- **Williams, C.A**., Phan, M.D., Grundstein, A.J., Cooper, B. (2013, November). *An Investigation of Extreme Wet-Bulb Globe Temperatures Across the Contiguous United States.* Poster session presented at the Southeastern Division of the Association of American Geographers, Roanoke, VA.

Panels at Professional Meetings:

- **Williams, C.A**. (2019, September). *Perspectives on the R2O Transition Process.* Panel session during the Office of Weather and Air Quality's Social and Behavioral Science Research to Operations Workshop, Silver Spring, MD.
- **Williams, C.A**. (2016, January). *Communicating uncertainty in weather and climate – From Probability of Precipitation to Beyond CO_2.* Town hall panel session during the National American Meteorological Conference, New Orleans, LA.

QUOTED

- Budnick, N. (2019, August). When memory fails. *The Weather Channel.* Retrieved from: https://features.weather.com/when-memory-fails/
- Shepherd, M. (2018, September). Five things that must change after Hurricane Florence. *Forbes.* Retrieved from: https://www.forbes.com/sites/marshallshepherd/2018/09/17/five-things-that-must-change-after-hurricane-florence/#1d4a287724a9

- Breslin, S. (2018, September). 42 children have died in hot cars in 2018 – More than the Average for an entire year. *Weather.com*. Retrieved from: https://weather.com/safety/heat/news/2018-09-05-hot-car-deaths-above-average?utm_source=eGaMorning&utm_campaign=8846c27b53-eGaMorning-

9_7_18&utm_medium=email&utm_term=0_54a77f93dd-8846c27b53-71063218&mc_cid=8846c27b53&mc_eid=c09a25d7ef

- Shepherd, M. (2018, July). Five confessions of a weather-climate scientist visiting iconic national parks. *Forbes.* Retrieved from: https://www.forbes.com/sites/marshallshepherd/2018/07/04/5-confessions-of-a-weather-climate-scientist-visiting-iconic-national-parks/#24aa663f4592
- University of Georgia Research (2018). Preventing deaths of children in hot cars. Retrieved from: https://ugaresearch.uga.edu/new-research-aims-to-prevent-deaths-of-children-in-hot-cars/
- Luton, J. (2017, September). New research focuses on hot car deaths. *UGA Today.* Retrieved from: https://news.uga.edu/new-research-aims-to-prevent-deaths/
- Shepherd, M. (2016, June). Does it get hot enough in a car to bake turkey? *Forbes.* Retrieved from: http://www.forbes.com/sites/marshallshepherd/2016/06/13/does-it-get-hot-enough-in-a-car-to-bake-turkey/#3b890efc5e01
- Shepherd, M. (2016, April). "Turn around don't drown" is a cute slogan: Why some don't do it. *Forbes.* Retrieved from: http://www.forbes.com/sites/marshallshepherd/2016/04/19/turn-around-dont-drown-is-a-cute-slogan-why-some-dont-do-it/#519d41e13695
- Shepherd, M (2015, November). Do you (or your meteorologist) understand what 40% chance of rain means? *Forbes*. Retrieved from: http://www.forbes.com/sites/marshallshepherd/2015/11/27/do-you-or-your-meteorologist-understand-what-40-chance-of-rain-means/#346f952e7d16

RESEARCH EXPERIENCE

University of Georgia – Department of Geography Athens, GA

Co-Principal Investigator August 2018 - Present

- Successfully led a research team in development of a NOAA/OAR/WPO Joint Technology Transfer Initiative (JTTI) grant proposal, statement of work, budget, and project deliverables.
- Collaborated with partners at the Storm Prediction Center and the NWS Severe Weather Program to identify their operational, R2O, and social science needs associated with the Convective Outlook graphic and the Public Severe Weather Outlook graphic.
- Responsible for coordinating the transfer of knowledge from research to operations by collaborating and co-creating a transition plan with Storm Prediction Center partners and NOAA/NWS point-on-contact.
- Participated in coordination calls with OAR/WPO representatives and other JTTI grant awardees to better understand the breadth of physical and social science R2O projects in progress across NOAA/NWS.
- Conducted qualitative interviews with members of the public to gauge knowledge, use, and understanding of the SPC's Day 1 Convective Outlook graphic. These interviews were also used to understand how members of the lay public identify and describe any graphical inconsistencies when viewing Convective Outlook graphics with different visual designs.

- Co-developed an experimental survey methodology to explore the effects of inconsistent graphical weather information on uncertainty, risk perception, and behavioral intentions.
- Presented findings to SPC leadership and OAR/WPO representatives through various

internal presentations, progress reports, and final reports.

National Weather Service – Graduate Research Internship Program Silver Spring, MD

Intern May 2017-May 2018

- Partnered with operational meteorologists and social scientists at NWS headquarters to gauge understanding of the current watch, warning, advisory system and evaluate alternative language prototypes as potential replacements to revamp the current watch, warning, advisory system.
- Collaborated with AFS service program branch chiefs (e.g., Severe, Public, Winter Weather, Tropical, Marine, and Hydrology) in the development of warning language prototypes to ensure consistency across all service program areas.
- Provided expert physical and social science knowledge on meteorological hazards, weather risk communication, and the watch, warning, advisory system to NWS meteorologists and Eastern Research Group social scientists.
- Co-developed the survey instrument used to collect data on the current watch, warning, advisory system and the alterative warning language prototypes.
- Conducted survey research to evaluate the excessive heat and high wind watch, warning, and advisory products among members of the public, and to test the new warning language prototypes among these end users.
- Presented findings to NWS leadership and AFS branch chiefs through various internal presentations and written reports.
- Participated in coordination calls to better understand the breadth of ongoing efforts across NOAA/NWS (e.g., Hazard Services, FACETS, IDSS, etc.) and co-created solutions to effectively transition the results of this project from research to operations given those interconnected initiatives.

National Science Foundation – Graduate Research Fellowship Program Athens, GA

Research Assistant June 2015-August 2018

- Developed, proposed, and received funding for a project sponsored by the National Science Foundation Graduate Research Fellowship Program (GRFP) to better understand the knowledge that parents and caregivers possessed about the topic of pediatric vehicular heatstroke.
- Collaborated with physical scientists, social scientists, and non-profit leaders to discuss the dangers of extreme heat and to identify misconceptions, myths, and gaps in knowledge when it comes to pediatric vehicular heatstroke.
- Conducted qualitative interviews with experts, parents, and caregivers to explore the differences that existed between their knowledge and beliefs on the topic of pediatric vehicular heatstroke with the hope that these findings could be used to craft, refine, and produce risk messages that better resonate with parents and caregivers.
- Worked with an interdisciplinary team of researchers to explore nonconvective wind events and wind-related bounce house incidents from both a physical and social science perspective.
- Collected and analyzed meteorological data to identify weather-related trends in previous bounce house incidents, and performed a policy analysis to better understand state laws pertaining to bounce houses and inflatable operations

- Constructed a website that aimed to increase the visibility of nonconvective wind events and bounce house-related injuries/deaths by providing information on the meteorological conditions often associated with these incidents, state policies and laws, and safety tips for parents, caregivers, and inflatable business owners.

Federal Emergency Management Agency - Region IV Atlanta, GA

Pathways Intern February 2015-October 2015

- Collected data on existing and new state and local evacuation zones and planning resources based on the most recent hurricane evacuation studies associated with FEMA Region IV coastal states.
- Compiled and aggregated any available evacuation zone data (e.g., GIS shapefiles, GeoPDF documentation, etc.) and other formatted information from county and state emergency management agencies into a common database.
- Explored and evaluated current and emerging technologies, platforms, and techniques for transitioning the collected information into an operational portal or tool for internal access and use.
- Presented findings to FEMA leadership, and recommended the use of an interactive PDF or portal for emergency managers and FEMA officials to have access to evacuation zone information when deployed in the field.

AMS Graduate Fellowship – American Meteorological Society Athens, GA

Research Assistant August 2014-May 2015

- Utilized ArcGIS to explore the spatial relationship of wet-bulb globe temperature (WBGT) data across the contiguous United States to better understand the geographic variability of extreme heat exposure, identify regional heat safety zones for athletics, and develop WBGT activity guides for each U.S. climate region.
- Developed a web application that helps athletic trainers identify their regional heat safety zone and provides the appropriate WBGT activity guidelines for their particular climate region (http://www.castlewilliams.com/wbgt-regions.html)
- Partnered with an interdisciplinary research team to better understand what the 'probability of precipitation' means among atmospheric scientists, operational forecasters, and broadcast meteorologists.
- Collaboratively conducted qualitative telephone interviews with experts in hydrometeorology, forecasting, and operational meteorology to inform the development of a survey instrument.
- Co-developed a survey instrument, and analyzed quantitative and qualitative data that explored the meaning of the 'probability of precipitation' among atmospheric scientists, operational forecasters, and broadcast meteorologists.

TEACHING AND ADVISING EXPERIENCE

Department of Geography Athens, GA

Introduction to Physical Geography Teaching Assistant Fall 2018

- Instructed undergraduate students in a laboratory setting.
- Responsible for co-creating curriculum with other teaching assistants.
- Graded papers and handled confidential information.

Office of the Vice President for Instruction Athens, GA

Peer Advisor and Co-Creator August 2011-May 2012, August 2013-May 2014

- Assisted freshmen-year students with creating successful study strategies.
- Helped freshmen students become familiarized with a new college setting.
- Offered outside tutoring assistance for freshmen students.
- Provided freshmen students with a strong, positive, and academic influence.

College of Education Athens, GA

Sign Language Teaching Assistant Summer 2011, Spring 2012- Spring 2013

- Assisted professor with any organizational tasks prior to the start of class.
- Created lesson plans and filled in during the professor's absence.
- Graded papers and handled confidential information.
- Assisted students who required additional tutoring.

HONORS AND AWARDS

- First Place Presentation Award, AMS Societal Applications Symposium Spring 2020
- Best Presentation Award, UGA Geography Graduate Research Symposium Spring 2018
- Third Place at Large, AMS Societal Applications Symposium Spring 2016
- Student Presentation Award, AMS Conference on Environment & Health Spring 2016
- Atlas Award Recipient for Academic Achievement Spring 2014
- Third Place, AMS Weather Ready Nation Poster Competition Spring 2014
- Presidential Scholar Fall 2012
- Top 100 UGA Student Workers Fall 2010-Spring 2011
- Dean's List 2009, 2012, Spring and Summer 2013

SERVICE

Professional Service:

- *Chair,* Lessons Learned from Health Communication: Considering the Weather Communication Implications of Conflicting Information and the Future of Message Consistency in the Weather Enterprise. Session at AMS Annual Meeting. January 2020
- *Co-Chair,* (Dis)continuity in Weather Warnings and Message Consistency. Session at AMS Annual Meeting. January 2020
- *Chair,* What our Publics and Experts Have to Say Session at AMS Annual Meeting. January 2020
- *Chair,* Improving Communication of Dangerous Weather. Session at AMS Broadcast Meteorology and Warning Communication Conference. June 2019
- *Co-Chair,* Issues with (In)Consistency in the Warning and Forecast Process: Part II. Session at the AMS Annual Meeting January 2019
- *Student and Early Career Task Force,* AMS Centennial Committee June 2018 - September 2019

- *Co-Chair*, Matt Parker Communication Workshop entitled: "*(In)Consistency in a Social Media World: Communication Reflections of the 2017 Hurricane Season* January 2018

- *Chair,* Building Professional Relationships. Session at the National AMS Student Conference — January 2018
- *Co-Organizer*, Consistency of Graphics in the Weather Enterprise NWA Webinar – Societal Impacts Committee — March 2017
- *Co-Chair*, Today's Insights and a Vision for Tomorrow. Session at the National AMS Student Conference — January 2017
- *Co-Chair*, Social Science, Communication, and the Weather Enterprise. Panel session at the National AMS Student Conference — January 2017
- *Inaugural Steering Committee Member,* Impact 360 Alliance — 2017-2020
- *Student Member*, AMS Committee on Effective Communication of Climate and Weather Information — 2017-2020
- *Member*, AMS Student Conference Planning Committee — 2016-2018
- *Committee Member,* NWA Societal Impacts Committee — 2016-2018

Departmental Service:

- *Space Committee,* UGA Geography Department — 2019-2020
- *Organizing Committee*, UGA Geography Undergraduate Conference — 2017-2018
- *Organizing Committee*, UGA Geography Undergraduate Conference — 2016-2017
- *Judge*, UGA Geography Graduate Research Symposium — February 2017
- *Co-Chair*, UGA Geography Graduate Student Association — 2016-2017
- *Organizing Committee*, UGA Geography Undergraduate Conference — 2015-2016
- *Social Coordinator*, UGA Geography Graduate Student Association — 2015-2016
- *Graduate Representative,* UGA Local Chapter of AMS — 2014-2016

REVIEWER

- Weather, Climate, and Society — 2020
- Bulletin of the American Meteorological Society (BAMS) — 2019-2020
- Southeastern Geographer — 2019
- Traffic Injury Prevention — 2018

PROFESSIONAL MEMBERSHIPS/AFFILIATIONS

- National Weather Association (NWA) — 2015-present
- International Society of Biometeorology (ICB) — 2014-present
- Co-Creator, Weather and Society Integrated Studies (WAS*IS) Students — 2014-present
- American Meteorological Society – National and Local Member — 2011-present
- The International Environmental Communication Association — 2016-2017

SKILLS

- Qualitative Coding Software (MAXQDA)
- Survey Development Software (Qualtrics, SurveyMonkey)
- Statistics Software (SPSS)
- Microsoft Suite (Word, Excel, PowerPoint, etc.).

- Adobe Suite (Photoshop, After Effects, Pro Premiere).
- Programming Languages (HTML, Java, and R)
- Geographic Information Systems (ArcGIS, ArcMap).
- Podcast Producing and Audio Editing (Audacity)

TRAINING

- Human Subjects Training
- CITI – Social and Behavioral Research & Internet-based Research
- IS-100: Introduction to Incident Command Systems (FEMA)
- IS-200: ICS for Single Resources and Initial Action Incidents (FEMA)
- IS-700: National Incident Management System (FEMA)
- IS-800: National Response Framework (FEMA)