

## Jennifer J. Henderson

[jenhenderson.com](http://jenhenderson.com)

### EDUCATION

- Ph.D. Science and Technology Studies, Virginia Tech, 2016  
Certificate in Remote Sensing
- M.F.A. Creative Nonfiction, Goucher College, 2004
- M.A. Literature and Creative Writing, Kansas State University, 2002
- B.A. Psychology and English, Weber State University, 1999

Dissertation Title: "To Err on the Side of Caution:" Ethical Dimensions of the National Weather Service Warning Process. Advisors: Dr. Gary Downey and Dr. Saul Halfon

### PROFESSIONAL APPOINTMENTS

- 2017-2018 Postdoctoral Fellow, CIRES, University of Colorado, Boulder
- 2011-2016 Graduate Teaching Assistant, Dean DePauw, Virginia Tech
- 2006-2011 Instructor and Career Advisor, Interdisciplinary Studies, Virginia Tech
- 2002-2005 Instructor and Practicum Advisor, English, Kansas State University

### PUBLICATIONS

#### Refereed Articles

- J. Henderson, M. Liboiron, forthcoming. Compromise and Action: Tactics for Doing Ethical Research in Disaster Zones. In *New Environmental Crisis: Hazard, Disaster, and the Challenges Ahead*. Eds., J. Kendra, S. G. Knowles, T. Wachtendorf. New York: Springer.
- J. Henderson, forthcoming. Weather Ready Nation or Ready Weather Agency? Developing an Ethic of Resilience in the National Weather Service. In *Bouncing Back: Sociotechnical Resilience in Disasters*. Ed., Sulfikar Amir. London: Palgrave MacMillan.
- R. Morss, J. L. Demuth, H. Lazrus, L. Palen, C. M. Barton, C. A. Davis, C. Snyder, O. V. Wilhelmi, K. M. Anderson, D. A. Ahijevych, J. Anderson, M. Bica, K. R. Fossell, J. Henderson, M. Kogan, K. Stowe, J. Watts, accepted. Hazardous Weather Prediction and Communication in the Modern Information Environment. *Bulletin of the American Meteorological Society*.
- J. L. Demuth, R. E. Morss, L. Palen, K. M. Anderson, J. Anderson, M. Kogan, K. Stowe, M. Bica, H. Lazrus, O. V. Wilhelmi, J. Henderson, under consideration. "sometime da #beachlife ain't always da wave": Understanding People's Evolving Risk Assessments and Responses During Hurricane Sandy Using Twitter. *Risk Analysis*.
- J. Anderson, M. Kogan, M. Bica, L. Palen, K. Anderson, R. Morss, J. Demuth, H. Lazrus, O. Wilhelmi, J. Henderson, 2016. Social Media Studies. Far Far Away in Far Rockaway: Responses to Risks and Impacts during Hurricane Sandy through First-Person Social Media Narratives. Preprint: *International Conference on Information Systems for Crisis Management*.
- A. Goldner, O. Shieh, and J. Henderson, 2013. Science Policy: Using Your Voice to Inform and Inspire." *Eos, Transactions American Geophysical Union*, **94**, 80-81.
- A. Schroeder, J.J. Gourley, J. Hardy, J. Henderson, P. Parhi, V. Rahmani, K. A. Reed, R. S. Schumacher, B.K. Smith, M. Taraldsen, forthcoming. The Development of a Flash Flood Severity Index. *Journal of Hydrology*.

Manuscripts in Preparation

J. Henderson, R. Schumacher, and E. Nielsen. TORFF: Operational Challenges for Forecasting Tornado and Flash Flood Hazards in the Southeastern U.S. *Bulletin of the American Meteorological Society*.

J. Henderson. (2017). The Ethic of Accuracy: Troubles in the Man-Machine Mix. *Weather, Climate, and Society*.

J. Henderson. (2017). Matters of Concern: The Ethics of Weather Prediction in the United States. *Journal of Cultural Geography*.

Conference Proceedings

K. Droegemeier, L. P. Rothfusz, A. J. Kniedler, J. T. Ferree, J. Henderson, K. L. Nemunaitis-Monroe, D. Nagele, and K. E. Klockow, 2016. Living with Extreme Weather Workshop: Summary and Path Forward. Preprint: *American Meteorological Society 96<sup>th</sup> Annual Conference*, New Orleans.

Other Publications

J. Henderson, 2014. Geographies of Home. In *Utah Reflections: Stories from the Wasatch Front*. SLC: The History Press.

J. Henderson, 2013. Chasing Uncertain Skies. *The American Scholar*. Washington, D.C: Phi Beta Kappa.

J. Henderson, 2005. Language of the Skies. *Flint Hills Review*, Emporia: Emporia State U.

**GRANTS AND FELLOWSHIPS**

- 2016-18 NOAA Southeast VORTEX Grant, Improving Risk Communication and Reducing Vulnerabilities for Dynamic Tornado Threats in the Southeastern US.” Co-PI with Julie Demuth, PI, NCAR. [\$149,813]
- 2015-16 NOAA Southeast VORTEX Grant, “Multi-disciplinary investigation of concurrent tornadoes and flash floods in the Southeastern US.” Co-PI with Russ Schumacher, PI, Colorado State University. [\$143,000]
- 2014 National Science Foundation Travel Grant. [\$750]
- 2013 Virginia Tech Graduate Student Association Research Grant. [\$1,000]
- 2012 Virginia Tech Graduate Student Association Travel Grant [\$500]
- 2014-17 Center for Advanced Public Safety Fellow, University of Alabama.
- 2011-16 Interdisciplinary Graduate Education Program Fellow, Remote Sensing, Virginia Tech.

**RELEVANT TEACHING EXPERIENCE**Virginia Tech

- Geog 4984 *Constructing the Weather*: Designed and taught class on sociopolitical & cultural issues in weather forecasting careers, including NWS and broadcasting
- Grad 5014 *Ethics and Academic Integrity*: Designed and taught online class on issues of integrity and ethics in graduate school
- IDST 1114 *Introduction to Interdisciplinary Studies*: Taught skills, methods, and theories of interdisciplinary research to incoming majors
- IDSS 4114 *Senior Research Seminar*: Taught online and face-to-face classes on research methods in the social sciences and supervised research proposal project development

Kansas State

- DAS 1000 *First Year Experience*: Designed and taught class for incoming freshman on how to be a successful college student
- ENGL 805 *Practicum/Teaching University Expository Writing*: Taught weekly course for novice English instructors and advised ten graduate students per semester on classroom management and evaluation
- ENGL 415 *Written Communication for the Workplace*: Designed and taught engineering & business students formats relevant to engineering industry, including memos, letters, project reports, and presentations

**AWARDS AND HONORS**

- 2015 College of Liberal Arts and Human Sciences Outstanding Doctoral Student. Virginia Tech, Blacksburg
- 2015 Warner Internship for Scientific Enrichment. Research Applications Lab, National Center for Atmospheric Research, (NCAR)
- 2014 Advanced Study Program Graduate Student Visitor. Mesoscale & Microscale Meteorology, NCAR
- 2013 Interdisciplinary Flood Research Group, or SPREAD, Colorado State University with Russ Schumacher (competitively selected).
- 2014 Summer Workshop on Environmental Sociology, Vanderbilt University with David Hess (competitively selected).
- 2012 Summer Policy Colloquium, AMS Policy Program, Washington, D.C. (competitively selected).
- 2004 Creative Nonfiction Award for “Language of the Skies, *Fourth Genre* Editor’s Prize, *Flint Hills Review*, Emporia State University.
- 2003 Longman / Expository Writing Program Teaching Award, Kansas State University, 2003.
- 2002 Earle R. Davis Scholarship for Outstanding Graduate Student, Kansas State University.

**CONFERENCE PRESENTATIONS & POSTERS (selected)**

- 2017 J. Henderson. “Tornado and Flash Flood Communication Challenges in the National Weather Service.” Invited Presentation. American Meteorological Society, Severe and Local Storms Symposium, Seattle.
- 2016 J. Henderson. “Infrastructures of Time and Space in the Weather Warning Process.” Society for the History of Technology (SHOT), Singapore.
- 2016 J. Henderson. “Interdisciplinary Challenges in the Development of a Flash Flood Severity Index.” Association of American Geographers Conference, San Francisco.
- 2016 N. Doesken, J. Henderson, P. Higgins, and P. A. Newman. “Beyond the Weather: Getting the Word Out: Science Policy and Communication.” Panelist, Student Conference. American Meteorological Society Annual Conference, New Orleans.
- 2015 J. Henderson. “To Err on the Side of Caution: Ethics in the Weather Warning Process.” IRCD Researchers Meeting. Natural Hazards Center, Boulder.
- 2015 J. Henderson. “Integrated Warning Teams: A Site of Critical Participation.” American Meteorological Society Annual Conference, Phoenix.
- 2014 J. Henderson. “Getting What We Want: What Happens Next.” Social Studies of Science in Society (4S) Conference, Buenos Aires.
- 2014 L. Myers, S. Jasko, V. Brown, and J. Henderson. “The Public's Reliance on Warnings and Directives: A Case Study of the January 28, 2014 Winter Weather Events in Alabama and Georgia.” National Weather Association, Salt Lake City.

- 2013 J. Henderson. "A Calculated Risk: One Group's Experience Storm Chasing in Oklahoma." AMS Warnings & Communications Conference, Knoxville. (Poster and Presentation)
- 2013 L. Myers, S. Jasko, and J. Henderson. "What is Social Science? What is it Good For?" American Meteorological Society Annual Conference, Austin.
- 2012 J. Henderson. "Mapping Tornado Risk: The Scientization of Tornado & Dixie Alleys." 4S Conference, Copenhagen. (Poster)
- 2012 J. Henderson. "Not in Oz: Gender and Storm Chasing." Gender, Bodies, & Technology Conference, Roanoke.

#### **SERVICE TO PROFESSION / UNIVERSITY**

- 2016-2019 Board of Societal Impacts, American Meteorological Society
- 2014-2018 Chair, Social Impacts Committee, National Weather Association
- 2015-2017 Writing Team, [The Alliance for Integrative Approaches to Extreme Environmental Events](#)
- 2013-2015 Organizing Committee Member, [Living with Extreme Weather Workshop](#)
- 2013-2015 Committee Member, Symposium on Societal Applications: Policy, Research and Practice
- 2014-2016 Blog Content Assistant Editor, Society for the Social Studies of Science (4S)
- 2013 Social Scientist Consultant on [NWS OKC Tornado Service Assessment](#)
- 2012-2013 Integrated Warning Team Facilitator in NC, NY, and AL
- 2011-2014 Ph.D. Representative, STS Graduate Student Organization, Virginia Tech
- 2011-2013 Meteorology Department Field Studies Facilitator, Virginia Tech
- 2012 Social Scientist Consultant on [NWS Mid-Atlantic Derecho Service Assessment](#)