

Mace L. Bentley, Ph.D.

Professor & Fulbright Scholar
Geographic Science Program
School of Integrated Sciences
James Madison University

Abbreviated Curriculum Vitae (01 Sep 2021)

Educational Background:

Ph.D.	1999	The University of Georgia Department of Geography
M.A.	1995	University of Nebraska-Lincoln Department of Geography
B.A./B.S.	1991	Northern Kentucky University Department of History and Geography/Department of Mathematics and Statistics (Double Major)

Professional Experience:

Professor & Fulbright Scholar Faculty Affiliate	2015-present 2020-present	James Madison University Asian Studies Minor
Contributing Editor	2008-present	<i>Weatherwise</i> magazine
Associate Professor	2013-2015	James Madison University
Associate Professor Faculty Associate	2006-2013 2008-2013	Northern Illinois University Center for Southeast Asian Studies
Assistant Professor	2000-2006	Northern Illinois University
Assistant Professor Asst. State Climatologist	1999-2000	Western Kentucky University
Forecast Meteorologist	1995-1996	The Weather Channel Atlanta, GA
Quantitative Analyst	1991-1992	Aviation Planning Associates Cincinnati, OH

Recent Journal Articles

(Peer-Reviewed; 15 student co-authors; **bold text** = student authors):

Bentley, M. L., Sae-Jung, J., **Kaminski, S.**, and **C. Terry**, 2021: A Spatiotemporal Analysis of Lightning in the Bangkok Metropolitan Region. *Asian Geographer*, pending revisions.

Bentley, M. L., Sae-Jung, J., **Kaminski, S.**, and P. Kesavawong, 2020: Documenting the Expansion of Urban-augmented Heat in the Bangkok Metropolitan Region, 2000 - 2019. *Asian Geographer*, <https://doi.org/10.1080/10225706.2020.1745251>.

Bentley, M. L., **Riley, C.** and **E. Mazur**, 2018: A Winter Season Lightning Climatology for the Contiguous United States. *Meteorology and Atmospheric Physics*, <https://doi.org/10.1007/s00703-018-0641-2>.

Bentley, M. L., **Franks, J. R.**, **Suranovic, K.**, **Barbache, B.**, Cooper, S. R. and D. Cannon, 2015: Lightning Characteristics of Derecho Producing Mesoscale Convective Systems. *Meteorology and Atmospheric Physics*, DOI: 10.1007/s00703-015-0417-x.

- 25 additional peer-reviewed articles in 14 journals (*Asian Geographer*; *The Bulletin of the American Meteorological Society*; *Climate Research*; *Climatic Change*; *Earth Interactions*; *International Journal of Climatology*; *Journal of Applied Geography*; *Journal of Hydrometeorology*; *Meteorological Applications*; *Meteorology & Atmospheric Physics*; *National Weather Digest*; *Physical Geography*; *Regional Environmental Change*; and *Weather & Forecasting*).
- 10 articles and numerous book reviews written and published in *Weatherwise* magazine as a Contributing Editor.

External Grants Awarded (\$1,037,850)

National Science Foundation, Physical & Dynamic Meteorology, Characterization of Aerosol Effects within an Urban Lightning Climatology across a North American Climatic Gradient, lead-PI with Gerken, T., Duan, Z., Bonsal, D., and H. Way, 2021-2023, \$449,955.

National Science Foundation, Geography & Spatial Sciences/Physical & Dynamic Meteorology, Climatological and Event-based Radar Delineation of UHI Convection for Urban Corridors within the Southeastern U.S., lead-PI with Ashley, W. S. and J. A. Stallins, 2008-2012, \$221,128.

National Science Foundation, Geography & Regional Science, Complex Controls on the Distribution of Lightning Characteristics and Property Damage in an Urbanized Region, co-PI with J. A. Stallins, 2003-2007, \$180,000.

National Science Foundation, Geography & Regional Science, Changes in the Frequency of Extreme Warm Season Surface Dewpoints in the Midwestern U.S.: Implications for Weather-Related Hazards, lead-PI with Changnon, D. and J. A. Stallins, 2004-2007, \$100,000.

Eight additional externally funded grants totaling \$86,767

- 37 Conference Presentations with 17 student co-authors presented in nine territories/countries (Australia; China; France; Germany; Japan; Malta; Taiwan; Thailand; USA)
- Director of six Master's theses/Committee member of 10 Master's theses
- Advisor for 28 undergraduate research projects including Undergraduate Research Apprenticeships, Independent Research Projects, Capstone Theses, and Honors Theses

Courses taught:

GEOG 105 Introduction to the Atmosphere (3 credit hours)
GEOG 200 Global Dimensions (3 credit hours)
GEOG 210 Physical Geography (4 credit hours)
GEOG 230 Spatial Thinking & Problem Solving (3 credit hours)
GEOG 310 Environmental Issues (Urban Climates) (3 credit hours)
GEOG 327 Climatology (3 credit hours)
GEOG 329 Global Climate Change (3 credit hours)
GEOG 336 Environmental Hazards: A Focus on Southeast Asia (3 credit hours)
GEOG 350 Special Topics: Climate & Society (3 credit hours)
GEOG 350 Special Topics: Musical Geography of Protest (1 credit hour)
GEOG 368 Climate Change: Science, Impacts, and Mitigation (3 credit hours)
GEOG 408/508 Tropical Environmental Hazards (3 credit hours)
GEOG 410/436 Geography & Film (3 credit hours)
GEOG 460/560 Remote Sensing of the Environment (3 credit hours)
GEOG 470 Senior Seminar in Atmospheric Science (3 credit hours)
GEOG 470 Senior Seminar in Critical Physical Geography (3 credit hours)
GEOG 498 Seminar in Severe Storms (3 credit hours)
MET 320 Synoptic Meteorology (4 credit hours)
MET 421/521 Advanced Synoptic Meteorology (4 credit hours)
MET 444/544 Mesoscale Meteorology (3 credit hours)