## CURRICULUM VITA

## SCOTT C. SHERIDAN, PhD

## 

## SEPTEMBER 2019

## Department of Geography

## Kent State University

## Kent, Ohio 44242 USA

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*Research interests: Applied climatology, synoptic climatology, human bioclimatology,*

*climate change and variability, extreme temperature events, atmosphere-ocean interactions*

##### PROFESSIONAL EXPERIENCE

**Department of Geography, Kent State University**

MAC Leadership Development Fellow 2019-20

Department Chairperson 2016-

Acting/Interim Chairperson 2015-2016

Professor 2011-

Associate Professor 2005-11

Assistant Professor 2000-05

Graduate Coordinator 2006-15

Faculty director, Kent State-Geneva 2009

Junior Teaching Scholar Fellow 2001-02

***International Journal of Biometeorology***

Editor-in-chief 2008-

Field Editor, Epidemiology 2004-2007

***Science of the Total Environment***

Associate Editor 2015-

***Data in Brief***

Associate Editor 2018-

**INTERNATIONAL SOCIETY OF BIOMETEOROLOGY**

Vice President 2017-

**Department of Geography, University of Delaware**

Research Assistant 1996-2000

Instructor 1998-1999

University Fellow 1996-1999

**Department of Meteorology, Texas A&M University**

Assistant to the State Climatologist 1994-95

American Meteorological Society Student Fellow 1993-94

##### EDUCATION

2000 Doctor of Philosophy, Climatology, University of Delaware

Dissertation: *The Redevelopment of an Air Mass Weather-Type Classification System for North America, with Applications to Climate Trends and Teleconnections,* Adviser: Laurence Kalkstein

1995 Master of Science, Meteorology, Texas A&M University

Thesis: *Cloud-to-Ground Lightning – Precipitation Relationships in the South Central United States*, Adviser: John Griffiths

1993 Bachelor of Science, Meteorology, Rutgers University

##### FUNDED RESEARCH

$4.21 million, including $1.50 million in external funding as PI

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2018-19 *Enhancing Climate Preparedness through Geodesign of Urban Green Space*

Principal Investigator, **Kent** **State** **University**, Environmental Science and Design Research Initiative $12,000

2018-20 *Health impacts of weather types in Sweden – the context of climatic and demographic change*

Co-Investigator, **FORMAS** (*Sweden*) (PI B. Schumann, Umeå U.) ~\*$60,000

2017-20 *Developing extreme climate change indicators related to human thermal comfort*

Co-Investigator, **NOAA CPO** (PI C. Lee) $269,456

2017-20 *Using a synoptic climatological framework to assess predictability of anomalous coastal sea levels in NOAA high priority areas*

Principal Investigator, **NOAA CPO** $286,932

2016-19 *The Development of a Water Clarity Index for the Great Lakes as a Climate Indicator*

Principal Investigator, **NASA** (Award NNX16AH12G) $565,024

2015-16 *Detecting and forecasting Climate Effects on Spatial Patterns of Biodiversity and Productivity in West Coast Sanctuaries: A Collaboration with the Marine Biodiversity Observational Network (MBON)*

Principal Investigator, **NOAA** (Contract EA-133C-15-SE-1454) $40,000

2014-15 *A synoptic climatological assessment of atmospheric impacts on short-term sea-level variability and its impacts along the mid-Atlantic coast*

Principal Investigator, **NOAA** (Contract EA-133C-14-SE-3728) $25,000

2015 *Climate resilience through vacant land strategies and land use adaptation in Cleveland*

Investigator, **Kresge Foundation** (PI T. Schwartz, Kent State) $100,000

2013-15 *Development of a water clarity index for the Southeastern US as a climate indicator*

Principal Investigator, **NASA** (Award NNX13AN31G) $196,104

2009-13 Climate variability/ change and the risks for a spectrum of diseases

Co-Investigator, **CDC** (PI S. Lin, New York State Department of Health) \*$150,000

2008-10 *Climatological, epidemiological, and public health justification of a heat wave health warning system for Moldova*

US Principal Inv., **US Civilian Research and Development Foundation**  \*$49,000

2008-11 *A Spatial Synoptic Classification Approach to Projected Heat Vulnerability in California under Future Climate Change Scenarios*

Principal Investigator, **California Air Resources Board** $191,553

2005-10 *Track 1, GK-12: Inquiry-based approaches to Earth System Science*

Co-Investigator, **NSF** (PI M. Munro-Stasiuk) $1,914,276

2008-09 *Monitoring Agricultural Sewage Sludge, Ohio*

Co-Investigator, **USDA** (PI M. Munro-Stasiuk) $70,000

2006-08 *Monitoring biosolids in Ohio*

Co-Investigator, **USDA** (PI M. Munro-Stasiuk) $50,000

2004-06 *Climatic influences on the spatial and temporal variability of aerosols over North America*

Principal Investigator, **NSF** $99,972

2003-05 *Municipal response and public perception of heat-health watch-warning systems: An evaluation of effectiveness*

Principal Investigator, **EPA** $47,114

2000-04 *Development of Heat Watch Warning Systems: Implementation and Intervention*

Principal Investigator of sub-contract, **NOAA** (PI L. Kalkstein, U. Delaware) $82,500

2001 *Spatial variability of heat vulnerability across Ohio*

Summer research and creative activity investigator, **Kent State University** $6,500

##### PROFESSIONAL SERVICE

**DEPARTMENT OF GEOGRAPHY, KENT STATE UNIVERSITY**

Faculty Advisory Committee 2004-14

Departmental Handbook Committee 2003-2004

Chair, Space Allocation Committee 2003-2010

Faculty Advisor, Gamma Theta Upsilon 2003-2012

Colloquium Coordinator 2002-2005

Library Liaison 2001-2004

Climatology Minor Coordinator 2000-

**KENT STATE UNIVERSITY**

Great Place Initiative Ad-Hoc on Race Group 2018-

Co-Chair, Provost / Chairs and Directors Council 2018-19

Provost Advisory Board 2013

Dean’s Review Committee 2012

Dean Search Committee 2013

Internal Reviewer, Department of Finance 2008

**EXTERNAL**

Mentor and Judge, Believe in Ohio 2015

Proposal Review Panelist, NOAA 2015

External Reviewer, Southern Illinois University 2015

Program Chair and Local Organizing Chair, 20th International Congress on Biometeorology 2014

Planning Committee Meeting, East Lakes Division of the Association of American Geographers 2015

Director Climate Specialty Group, Association of American Geographers 2012-14

Member Health Canada Heat Alert and Response Systems advisory committee 2008-11

External Reviewer, Ball State University 2008, 14

Program Committee, 18th Conference on Biometeorology and Aerobiology 2008

Assistant Coordinator, Northern Ohio Teacher’s Weather Summit, National Weather Association 2006

Program Committee Chair, 17th Conference on Biometeorology and Aerobiology 2006

Scientific and Technological Activities Commission Biometeorology and Aerobiology Committee, American Meteorological Society 2002-05

Expert Team Advisor Operational Heat Health/Warning Systems Committee, World Meteorological Organization2002-09

##### STUDENT ADVISEMENT

*All students Department of Geography, Kent State, unless noted*

**GRADUATED Ph.D. STUDENTS (7)**

Michael Allen 2014 *An Evaluation of Seasonality through Four Delineation Methods: A Comparison of Mortality Responses and the Relationship with Anomalous Temperature Events*

Bradley Austin 2014 *Perspectives of weather and sensitivities to heat: Social media applications for cultural climatology*

Thomas Ballinger 2015 *A synoptic climatological assessment of the relationship between Arctic sea-ice variability and climate anomalies over North America*

Douglas Cripe 2005 *The effects of the Pacific North American and North Atlantic Oscillation teleconnections upon Great Lake-effect snowfall* (co-advisor)

Cameron Lee 2014 *The Development of a Gridded Weather Typing Classification Scheme*

Jason Senkbeil 2007 *The Spatial and Temporal Role of Irrigation on Daily Warm Season Precipitation in the Great Plains 1950 - 2005*

Jeremy Spencer 2015 *The Geography of Hypothermia in the United States: An Analysis of Mortality, Morbidity, Thresholds, and Messaging*

**GRADUATED M.A. STUDENTS (12)**

Ryan Adams 2017 *Bomb Cyclones of the Western North Atlantic*

Michael Allen 2010 *The impact of winter weather on human health: a regional approach to understanding vulnerability in the United States*

Paul Butke 2006 *The relationship between weather and violent crime in Cleveland, Ohio*

Timothy Dolney 2003 *The relationship between ambulance response calls for the city of Toronto, Ontario, Canada and extreme heat*

Jason Haley 2011 *Climatology of Freeze-Thaw Days in the Conterminous United States: 1982-2009*

Joseph Harwood 2008 *Delineation and GIS Mapping of Urban Heat Islands Using Landsat ETM Imagery* (co-advisor)

Wesley Kent 2004 *The impact of cloud cover on major league baseball*

Wayne Kline 2009 *Climatic factors associated with the rapid wintertime increase in cloud cover across the Great Lakes region*

Cameron Lee 2010 *The relationship of large-scale atmospheric circulation patterns to tornado frequency and the impacts of climate change*

Vanessa Myers 2009 *Evaluation of real-time weather map discussions in the middle school classroom*

Candace Olszak 2012 *The Impacts of Weather on a Mid-American Conference University Football Team and Players’ Perceptions Regarding Weather*

E. Tyler Smith 2017 *The Characteristics of Cold Air Outbreaks in the Eastern United States and the Influence of Atmospheric Circulation Patterns*

**VISITING STUDENTS HOSTED (3)**

Vinicius Carmello (Universidade Estadual Paulista – Presidente Prudente, Brazil) 2016, Nubia Beray Armond (Universidade Estadual Paulista – Presidente Prudente, Brazil) 2013 , Nicole Ortiz Jimenez (Universidad de Puerto Rico – Rio Piedras) 2019

**PH.D. COMMITTEES SERVED ON (19)**

BJ Arnold 2014, Kate Bassil 2008 (U. Toronto), Mark Breidenbaugh 2008 (Biology, Kent State), Kevin Butler 2008, Catherine Cartwright 2015, Jill Coleman 2005 (Ohio State), Timothy Dolney 2007, Christopher Elcik (Geosciences, Mississippi State) 2019, Christa Haney (Geosciences, Mississippi State) 2017, David Hollinger 2011, John Kirk 2017, Marius Paulikas 2015, Melissa Phillips 2015,Munshi Rahman 2015, Kakoli Saha 2011, Andrew Shears 2011, Aida Soim (U. Albany) 2014, Lee Stocks 2010, Andrea Szell 2019, Zheye Wang 2018

**MASTERS COMMITTEES SERVED ON (23)**

John Barr 2011, Jennifer Burrell 2011, Buddy Candela 2016 (Liberal Studies, Kent State), Don Colley 2012, Jennifer Edwards 2013, Brian George 2003, Rebecca Hoffman 2013, Sam Henkin 2014, Scott Hutka 2010, Md. Sariful Islam 2018, Sung-bae Jeon 2003, Debra Kellar 2010, Bryce Kastelein 2014, Johnathan Kirk 2013, Bethaney Krzys 2008, Christina Longo 2011, Christopher Nitzsche 2013, Melissa Phillips 2011, Jared Scott 2001 (U. Delaware), Rachel Will 2014, Carmen Woodhall 2007, Siyao Xu 2009, Chaoqing Yu 2001

**CURRENT ADVISEES (5)**

Ph.D.: Md. Rafiq Islam, Ryan Adams, Erik Smith, Andrews Boateng, MA: Matthew Stiller

**CURRENT COMMITTEES**

Sam Eitner, Haley Wachholz, Omon Obarein, Alicia Sloan, Xin Hong, Mark Guizlo

College of Arts and Sciences Award for International Student Engagement 2017

##### COURSES TAUGHT

*Applied Climatology*4x

*Climate and Life*

*Climate Change and its Impacts* 8x

*Earth System Science (Workshop)* 5x

*Field Experience* 4x

Iceland, Peru, Costa Rica, Portugal

*Fundamentals of Meteorology* 5x

*Geography of Europe* 9x

*Geography of Latin America and the Caribbean* 3x

*Geography of the United States & Canada* 3x

*Observing Earth from Space workshop* 5x

*Physical Geography* 2x

*Principles of Climatology* 9x

*Research & Presentation of Geographic Data* 5x

*Statistical Methods in Geography* 7x

*World Geography* 11x

College of Arts and Sciences Distinguished Teacher Award 2007

##### PUBLICATIONS

Highly cited publications (h-index=29); 4,179 total citations (Google Scholar)

**Peer-reviewed publications (97)**

Sheridan SC, Lee CC, Adams RE, Smith ET, Pirhalla DE, Ransibrahmanakul V. Temporal Modeling of Anomalous Coastal Sea Level Values Using Synoptic Climatological Patterns. *Journal of Geophysical Research Oceans*, 124, 14pp. DOI: 10.1029/2019JC015421.

Nayak S et al, including Sheridan SC. 2019. Accessibility of Cooling Centers to Heat-Vulnerable Populations in New York State. *Journal of Transport and Health*, 14, 100563.

Fonseca-Rodríguez O, Lundevaller EH, Sheridan SC, Schumann B. 2019. Association between weather types based on the Spatial Synoptic Classification and all-cause mortality in Sweden, 1991 – 2014. *International Journal of Environmental Research and Public Health*, 16, 1696.

Sheridan SC, Lee CC, Allen MJ. 2019. The mortality response to absolute and relative temperature extremes. *International Journal of Environmental Research and Public Health*, 16, 1493.

Zhang W, and others, including Sheridan SC. 2019. Projected changes in maternal heat exposure during early pregnancy and the associated congenital heart defect burden in the United States. *Journal of the American Heart Association*, 8:e010995.

Smith ET, Sheridan SC. 2019. The Influence of Atmospheric Circulation Patterns on Cold Air Outbreaks in the Eastern United States. *International Journal of Climatology*, 39, 2080-2095.

Sheridan SC, Lee CC. 2019. Temporal trends in absolute and relative extreme temperature events across North America. *Journal of Geophysical Research – Atmospheres*, 123, 11889-11898.

Islam MR, Sheridan SC, Lee CC. 2019. Using self-organizing maps to identify the South Asian seasonal cycle. *Theoretical and Applied Climatology*, 137, 1385-1401.

Ballinger TJ, Lee CC, Sheridan SC, Crawford AD, Overland JE, Wang M. 2019. Subseasonal atmospheric regimes and ocean background forcing of Pacific Arctic sea ice melt onset. *Climate Dynamics*, 52, 5657-5672.

Smith ET, Sheridan SC. 2019. The Influence of Extreme Cold Events on Mortality in the United States. *Science of the Total Environment*, 67, 342-251.

Lee CC, Sheridan SC. 2018. Trends in weather type frequencies across North America. *npj Climate and Atmospheric Science*, 1, 41.

Soim AS, Sheridan SC, et al. 2018. A population-based case-control study of the association between weather-related extreme heat events and orofacial clefts. *Birth Defects Research*, 110, 1468-1477.

Sheridan SC, Allen MJ. 2018. Temporal trends in human vulnerability to excessive heat. *Environmental Research Letters*, 13, 043001, 12 pp.

Lin S, et al., including Sheridan SC. 2018. Maternal Ambient Heat Exposure during Early Pregnancy in Summer and Spring and Congenital Heart Defects – a Large US Population-based, Case-Control Study. *Environment International*, 118, 211-221.

Lee CC, Sheridan SC. 2018. A new approach to modeling temperature-related mortality: Non-linear autoregressive models with exogenous input. *Environmental Research*, 154, 53-64.

Smith ET, Sheridan SC. 2018. The characteristics of extreme cold events and cold air outbreaks in the eastern United States. *International Journal of Climatology*, 38, e807-e820.

Allen MJ, Sheridan SC. 2018. Mortality risks during extreme temperature events (ETEs) using a distributed lag non-linear model. *International Journal of Biometeorology*, 62, 57-67.

Lee DG, Kim KR, Kim JY, Kim BJ, Cho CH, Sheridan SC, Kalkstein LS, Kim H, Yi SM. 2018. Effects of heat waves on daily excess mortality in 14 Korean cities during the past 20 years (1991-2010): an application of the Spatial Synoptic Classification approach. *International Journal of Biometeorology*, 62, 575-583.

Nayak, SG, and others, including Sheridan SC. 2018. Development of a Heat-Vulnerability Index for New York State. *Public Health*, 161, 127-137.

Sheridan SC, Allen MJ. 2017. Sixty years of the International Journal of Biometeorology. *International Journal of Biometeorology*, 61, S3-10.

Sheridan SC, Dixon PG. 2017. Spatiotemporal trends in human vulnerability and adaptation to heat across the United States. *Anthropocene*, 20, 61-73.

Sheridan SC, Lee CC, Pirhalla DE, Ransibrahmanakul V. 2017. Atmospheric drivers of sea-level fluctuations and nuisance floods along the mid-Atlantic coast of the USA. *Regional Environmental Change*, 17, 1853-1861.

Cerveny R, et al., including Sheridan SC. 2017. WMO Assessment of Weather and Climate Mortality Extremes: Lightning, Tropical Cyclones, Tornadoes, and Hail. *Weather Climate and* *Society*, 9, 487-497.

Kirk JP, Sheridan SC, Schmidlin TW. 2017. Synoptic climatology of the early 21st century drought in the Colorado River Basin and relationships to reservoir water levels. *International Journal of Climatology*, 37, 2424-2437.

Lee CC, Sheridan SC, Barnes BB, Hu C, Pirhalla DE, Ransibrahmanakul V, Shein K. 2017. The development of a non-linear auto-regressive model with exogenous input (NARX) to model climate-water clarity relationships: reconstructing an historical water clarity index for the coastal waters of the southeastern US. *Theoretical and Applied Climatology*, 130, 557-569.

Nayak S et al., including Sheridan SC. 2017. Surveying Local Health Departments and County Emergency Management Offices on Cooling Centers as a Heat Adaptation Resource in New York State. *Journal of Community Health*, 42, 43-50.

Perkins DR, Vanos J, Fuhrmann C, Allen MJ, Knight D, Lee CC, Lees A, Leung A, Lucas R, Mehdipoor H, Nascimento ST, Sheridan SC, Spencer JM. 2017. Enhancing the Teaching and Learning of Biometeorology in Higher Education. *Bulletin of the American Meteorological Society*, 98, ES239-ES242.

Pirhalla DE, Sheridan SC, Lee CC, Barnes BB, Ransibrahmanakul V, Hu C. 2017. Water clarity patterns in South Florida coastal waters and their linkages to synoptic-scale wind forcing. *Satellite Oceanography and Meteorology*, 2, 26-40.

Soim AS, Lin S, Sheridan SC, Hwang SA, Hsu WH, Luben TJ, Shaw GM, Feldkamp ML, Romitti PA, Reefhuis J, Langlois PH, Browne ML, National Birth Defects Prevention Study. 2017. Population-based case-control study of the association between weather-related extreme heat events and neural tube defects. *Birth Defects Research*, 109, 1482-1493.

Allen MJ, Sheridan SC. 2016. Evaluating Changes in Season Length, Onset, and End Dates across the United States (1948 – 2012). *International Journal of Climatology*, 36, 1268-77.

Allen MJ, Sheridan SC. 2016. Spatio-temporal changes in heat waves and cold spells: an analysis of 55 U.S. cities. *Physical Geography*, 37, 189-209.

Ballinger TJ, Sheridan SC. 2016. Sea ice impacts on polar surface weather types in the North American Arctic. *Climate Research*, 67, 117-134.

Kim JA, Kim KR, Lee CC, Sheridan SC, Kalkstein LS, Kim BJ. 2016. Analysis of Occurrence Distribution and Synoptic Pattern of Future Heat Waves in Korea. [한반도 미래 폭염의 발생 분포 및 종관패턴 분석]. *Journal of Climate Research*, 11, 15-27.

Sailor D, Shepherd M, Sheridan SC, Stone B, Kalkstein LS, Russell A, Vargo J, Andersen T. 2016. Improving heat-related health outcomes in an urban environment with science-based policy. *Sustainability*, 8, 1015.

Sheridan SC, Allen MJ. 2015. Changes in the frequency and intensity of extreme temperature events and human health concerns. *Current Climate Change Reports*, 1, 155-162.

Ballinger TJ, Sheridan SC. 2015. Regional atmospheric patterns and the delayed sea-ice freeze-up in the western Arctic. *Climatic Change*, 131, 229-243.

Lee CC, Sheridan SC. 2015. Synoptic Climatology: An Overview. In *Reference Module in Earth Systems and Environmental Sciences*, Elsevier*.* DOI 10.1016/B978-0-12-409548-9.09421-5.

Phillips MCK, Cinderich AB, Burrell JL, Ruper JL, Will RG, Sheridan SC. 2015. The effect of climate change on natural disasters: a college student perspective. *Weather Climate and Society*, 7, 60-68.

Pirhalla DE, Sheridan SC, Ransi V, Lee CC. 2015. Assessing Cold-snap and Mortality Events in South Florida Coastal Ecosystems: Development of a Biological Cold Stress Index using Satellite SST and Weather Pattern Forcing. *Estuaries and Coasts*, 38, 2310-2322.

Spencer JM, Sheridan SC. 2015. Web-based hypothermia information: a critical assessment of Internet resources and a comparison to peer-reviewed literature. *Perspectives in Public Health*, 135, 85-91.

Sheridan SC, Koppe C, Kalkstein LS. Heat Health Watch Warning Systems: Definition and Methodology. 2014. In *Heat Waves and Health: Guidance on Warning System Development*, World Meteorological Organization, G. McGregor (ed).

Sheridan SC, Lee CC. 2014. Synoptic Climatology. In *Oxford Bibliographies*, Oxford University Press. DOI 10.1093/OBO/9780199874002-0088.

Sheridan SC, Lin S. 2014. Assessing variability in the impacts of heat on health outcomes in New York City over time, season, and heat-wave duration. *EcoHealth*, 11, 512-525.

Allen MJ, Sheridan SC. 2014. High-mortality days during the winter season: comparing meteorological conditions across 5 US cities. *International Journal of Biometeorology,* 58, 217-225.

Ballinger TJ, Sheridan SC. 2014. Associations between circulation pattern frequencies and sea ice minima in the western Arctic. *International Journal of Climatology*, 34, 1385-1394.

Ballinger TJ, Sheridan SC, Hanna E. 2014. Resolving the Beaufort Sea High using synoptic climatological methods. *International Journal of Climatology*, 34, 3312-3319.

Dixon PG, Sinyor M, Schaffer A, Levitt A, Haney CR, Ellis KN, Sheridan SC. 2014. Association of Weekly Suicide Rates with Temperature Anomalies in Two Different Climate Types. *International Journal of Environmental Research and Public Health,* 11, 11627-11644.

Sheridan SC, Pirhalla DP, Lee CC, Ransi V. 2013. Evaluating linkages of weather patterns and water quality responses in South Florida using a synoptic climatological approach. *Journal of Applied Meteorology and Climatology*, 52, 425-438.

Corobov R, Sheridan SC, Ebi KL, Opopol N. 2013. Warm season temperature-mortality relationships in Chisinau (Moldova). *International Journal of Atmospheric Sciences*, 2013, ID 346024, 9 pp.

Corobov R, Sheridan SC, Opopol N, Ebi KL. 2013. Heat-related mortality in Moldova: The summer of 2007. *International Journal of Climatology*, 33, 2551-2560.

Vanos JK, Cakmak S, Bristow C, Brion V, Tremblay N, Martin SL, Sheridan SC. 2013. Synoptic weather typing applied to air pollution mortality among the elderly in 10 Canadian cities. *Environmental Research*, 126, 66-75.

Sheridan SC, Allen MJ, Lee CC, Kalkstein LS. 2012. Future heat vulnerability in California Part II: Projecting future heat-related mortality. *Climatic Change,* 115, 321-326.

Sheridan SC, Lee CC. 2012. Synoptic climatology and the analysis of atmospheric teleconnections. *Progress in Physical Geography*, 36, 548-557.

Sheridan SC, Lee CC, Allen MJ, Kalkstein LS. 2012. Future heat vulnerability in California Part I: Projecting future weather types and heat events. *Climatic Change,* 115, 291-309.

Insaf TZ, Lin S, Sheridan SC. 2012. Climate trends in indices for temperature and precipitation across New York State, 1948–2008. *Air Quality, Atmosphere, and Health,* 6, 247-257.

Lee CC, Sheridan S.C., Lin S. 2012. Relating weather types to asthma-related hospital admissions in New York State. *EcoHealth*, 9, 424-439.

Sheridan SC, Lee CC. 2011. The self-organizing map in synoptic climatological research. *Progress in Physical Geography*, 35, 109-119.

Kent WP, Sheridan SC. 2011. The impact of cloud cover on major league baseball. *Weather Climate and Society*, 3, 7-15.

Lee CC, Sheridan SC. 2011. A Six-Step Approach to Developing Future Synoptic Classifications based on GCM Output. *International Journal of Climatology*, 32, 1792-1802.

Sheridan SC, Kalkstein AJ. 2010. Seasonal variability in heat-related mortality across the United States. *Natural Hazards,* 55, 291-305.

Sheridan SC, Lee CC. 2010. Synoptic climatology and the general circulation model. *Progress in Physical Geography*, 34, 101-109.

Butke PS, Sheridan SC. 2010. An analysis of the relationship between weather and aggressive crime in Cleveland, Ohio. *Weather, Climate, and Society*, 2, 127-139.

Corobov R, Sheridan SC, Overcenco A, Terinte N. 2010. Air temperature trends and extremes in Chisinau (Moldova) as evidence of climate change. *Climate Research,* 42, 247-256.

Hajat S, Sheridan SC, Allen MJ, Pascal M, Laaidi K, Yagouti A, Bickis U, Tobias A, Bourque D, Armstrong BG, Kosatsky T. 2010. Which days of hot weather are identified as dangerous by Heat-Health Warning Systems? A comparison of the predictive capacity of different approaches. *American Journal of Public Health*, 100, 1137-1144.

Hayhoe K, Sheridan SC, Kalkstein LS, Greene JS. 2010. Climate change, heat waves, and mortality projections for Chicago. *Journal of Great Lakes Research*, 36, 65-73.

Lee DG, Choi YJ, Kim KR, Byon JY, Kalkstein LS, Sheridan SC. 2010. Development of Heat-Health Warning System Based on Regional Properties between Climate and Human Health. *Climate Change Research*, 1, 109-120.

Sheridan SC, Kalkstein AJ, Kalkstein LS. 2009. Trends in heat-related mortality in the United States, 1975-2004. *Natural Hazards,* 50, 145-160.

Hedley ML, Czajkowski K, Struble J, Benko T, Shellito B, Sheridan SC, Munro-Stasiuk MJ. 2009. An International Polar Year partnership to study Earth’s materials. *The Science Teacher*, 27-33.

Kalkstein LS, Koppe C, Orlandini S, Sheridan SC, Tomic K. Health impacts of heat: present realities and potential impacts of a climate change. 2009. In *Distributional Impacts of Climate Change and Natural Disasters: Concepts and Cases*, Edward Elgar, M. Ruth and M. Ibarraran (eds.), 69-81.

Kalkstein LS, Sheridan SC, Kalkstein AJ. 2009. Heat Health Warning Systems:  Development, Implementation, and Intervention Activities. In *Biometeorology for Adaptation to Climate Variability and Change*, Springer-Verlag, 33-48.

Sheridan SC, Power HC, Senkbeil JC. 2008. A further analysis of the spatio-temporal variability in aerosols across North America: incorporation of lower tropospheric (850-hPa) flow. *International Journal of Climatology,* 28, 1189-1199.

Kalkstein LS, Sheridan SC, Au YC. 2008. A new generation of heat health warning systems for Seoul and other major Korean cities. *Meteorological Technology and Policy,* 62-68.

Knight DB, Davis RE, Sheridan SC, Hondula DM, Sitka LJ, Deaton M, Lee TR, Gawtry SD, Stenger PJ, Mazzei F, Kenny BP. 2008. Increasing frequencies of warm and humid air masses over the conterminous United States from 1948 to 2005. *Geophysical Research Letters*, 35, L10702.

Lambert J, and other authors, including Sheridan SC. 2008. SATELLITES: Students and Teachers Exploring Local Landscapes to Interpret the Earth from Space. *Journal of Geoscience Education,* 56, 383-393.

Munro-Stasiuk MJ, Sheridan SC. 2008. Localizing geographic concepts through middle- and high-school outreach. *Papers of the Applied Geography Conference*, 182-188.

Sheridan SC. 2007. A survey of public perception and response to heat warnings across four North American cities: an evaluation of municipal effectiveness. *International Journal of Biometeorology*, 52: 3-15.

Sheridan SC, Kalkstein LS. Health and Changing Climate. 2007. In *Climate Change and Variation: A Primer for Teachers*, National Council for Geographic Education, W.A. Dando (ed.), 103-110.

Kalkstein AJ, Sheridan SC. 2007. The social impacts of the heat-health watch/warning system in Phoenix, Arizona: Assessing the perceived risk and response of the public. *International Journal of Biometeorology*, 52: 43-55.

McGregor GR, Bower D, Hannah D, Sheridan SC. 2007. Development of a Spatial Synoptic Classification Scheme for Western Europe. *International Journal of Climatology,* 27, 2017-2040.

Senkbeil JC, Rodgers JC, Sheridan SC. 2007. The sensitivity of tree growth to air mass variability and the Pacific Decadal Oscillation in coastal Alabama. *International Journal of Biometeorology*, 51, 483-492.

Dolney TJ, Sheridan SC. 2006. The relationship between extreme heat and ambulance calls for the city of Toronto, Ontario, Canada. *Environmental Research*, 101, 94-103.

Power HC, Sheridan SC, Senkbeil JC. 2006. Synoptic climatological influences on the spatial and temporal variability of aerosols over North America. *International Journal of Climatology*, 26, 723-741.

Senkbeil JC, Sheridan SC. 2006. A post-landfall hurricane classification system for the United States. *Journal of Coastal Research*, 22, 1025-1034.

Hayhoe K, Kalkstein LS, Miller N, Sheridan SC, Jin J. 2005. Climate impacts on extreme heat and heat-related mortality in California. In *Public Health Related Impacts of Climate Change in California*, Lawrence Berkeley National Laboratory, D. Drechsler and M. Motallebi (eds.), 149 pp.

Rainham DGC, Smoyer-Tomic KE, Sheridan SC, Burnett RT. 2005. Synoptic weather patterns and modification of the association between air pollution and human mortality. *International Journal of Environmental Health Research*, 15, 347-360.

Sheridan SC, Kalkstein LS. 2004. Progress in Heat Watch-Warning System Technology. *Bulletin of the American Meteorological Society*, 85, 1931-1941*.*

Sheridan SC. 2004. *Heat Waves: Risks and Responses*. In *Health and Global Environmental Change* (Series No. 2), World Meteorological Organization, C. Koppe, S. Kovats, G. Jendritzky, and B. Menne (lead authors), 124 pp.

Sheridan SC. 2004. The development of heat-warning systems for cities worldwide. In *WorldMinds: Geographical Perspectives on 100 Problems*, Association of American Geographers, D.G. Janelle, B. Warf, and K. Hansen (eds.), 487-492.

Hancox JG, Sheridan SC, Feldmann SR, Fleischer AB. 2004. Seasonal variation of dermatologic disease in the USA: a study of office visits from 1990 to 1998. *International Journal of Dermatology*, 43, 6-11.

Hayhoe K, and other authors, including Sheridan SC. 2004. Climate Change, Extreme Heat, and Heat Mortality in California. *Proceedings of the National Academy of Science*, 101, 12422-12427.

Sheridan SC. 2003. North American weather-type frequency and teleconnection indices. *International Journal of Climatology*, 23, 21-45.

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##### PRESENTATIONS

*only lead presentations listed unless noted, \*invited*

**CONFERENCE PRESENTATIONS (72)**

Annual Meeting, International Society for Environmental Epidemiology Utrecht, Netherlands 2019

*The impacts of anomalous temperature events on mortality outside the core of summer and winter*

Annual Meeting of the American Meteorological Society Phoenix, Arizona 2019

*The early-season cold or heat wave: what are its impacts on human mortality?*

Annual Meeting of the Association of American Geographers Washington, DC 2019

*The early-season cold or heat wave: what are its impacts on human mortality?*

Fall Meeting, American Geophysical Union Washington, DC 2018

*Temporal trends in absolute and relative extreme temperature events across North America*

Applied Geography Conference Kent, Ohio 2018

*The relationship between relative extreme temperature events and mortality in the United States*

Annual Meeting of the Association of American Geographers New Orleans, Louisiana 2018

*Childhood injury risk in Akron, Ohio, and the role of weather*

Fall Meeting, American Geophysical Union New Orleans, Louisiana 2017

*The role of atmospheric circulation patterns on short-term sea-level fluctuations along the eastern seaboard of the US*

Annual Meeting, East Lakes Division of the Association of American Geographers Ypsilanti, Michigan 2017

*Childhood injury risk in Akron, Ohio, and the role of weather*

International Congress of Biometeorology Durham, United Kingdom 2017

*\*International Journal of Biometeorology: Report*

*Sixty years of the International Journal of Biometeorology*

*Modeling weather impacts on human mortality using NARX models*

*The impact of weather conditions on childhood injury risk in Akron, Ohio, USA*

Annual Meeting of the Association of American Geographers Boston, Massachusetts 2017

*Using self-organizing maps to assess atmospheric circulation and short-term sea-level fluctuations*

Fall Meeting, American Geophysical Union San Francisco, California 2016

*\*Spatiotemporal trends in human vulnerability to the heat across the US*

Applied Geography Conference Louisville, Kentucky 2016

*Using self-organizing maps to assess atmospheric circulation along the eastern seaboard of the US, and its relationship with short-term sea-level fluctuations*

Annual Meeting, East Lakes Division of the Association of American Geographers Marquette, Michigan 2016

*Temporal trends in heat-related mortality*

Adaptation Futures Rotterdam, Netherlands 2016

*Changes in the heat-health relationship across the USA, 1975-2010: adaptation and its limits*

Annual Meeting of the Association of American Geographers San Francisco, California 2016

*Heat-related mortality in the US: Time trends through 2010*

Applied Geography Conference San Antonio, Texas 2015

*Temporal trends in heat-related mortality across the United States*

Annual Meeting, East Lakes Division of the Association of American Geographers Kent, Ohio 2015

*Decreased rates of heat-related mortality in the US, 1975-2010*

Annual Meeting, International Society for Environmental Epidemiology São Paulo, Brazil 2015

*Heat-related mortality in the US: Time trends through 2010*

Annual Meeting of the Association of American Geographers Chicago, Illinois 2015

*Decreased rates of heat mortality: have we already adapted to climate change?*

Fall Meeting, American Geophysical Union San Francisco, California 2014

*Development of a water clarity index for the southeastern US as a climate indicator*

International Congress of Biometeorology Cleveland, Ohio 2014

*\*International Journal of Biometeorology: Report*

*Updated trend analysis of heat vulnerability in the United States using a Distributed Lag Nonlinear Model*

Annual Meeting of the Association of American Geographers Tampa, Florida 2014

The reconstruction of historical Spatial Synoptic Classification types across North America

Annual Meeting of the Pennsylvania Geographic Society Pittsburgh, Pennsylvania 2013

*\*The Geography of Heat Vulnerability* [KEYNOTE]

Annual Meeting of the European Meteorological Society Reading, United Kingdom 2013

*The heat-health relationship in New York City: an assessment of morbidity and mortality data using distributed-lag models with a synoptic climatological approach*

Annual Meeting of the Association of American Geographers Los Angeles, California 2013

*Evaluating the different responses in morbidity and mortality to heat events across New York State*

[Annual Meeting of the American Meteorological Society](http://www.ametsoc.org/meet/fainst/vancouver2004.html)  Austin, Texas 2013

*\*Global Heat Events of 2012*

*\*Heat Events in the US during 2012*

*Evaluating the different responses in morbidity and mortality to heat events across New York State*

Annual Meeting of the International Society for Environmental Epidemiology Columbia, South Carolina 2012

*A Comparison of Morbidity and Mortality Responses to Heat Events in New York State*

Annual Meeting of the Association of American Geographers New York, New York 2012

*Projections of Heat Vulnerability in California over the 21st Century Using a Synoptic Climatological Approach*

[Annual Meeting of the American Meteorological Society](http://www.ametsoc.org/meet/fainst/vancouver2004.html) New Orleans, Louisiana 2012

*\*Global Heat in 2011*

International Congress of Biometeorology Auckland, New Zealand 2011

*Projecting future heat vulnerability in California using a synoptic climatological approach*

Annual Meeting of the Association of American Geographers Seattle, Washington 2011

*A synoptic climatological assessment of heat-related hospital admissions in New York State*

International Society for Environmental Epidemiology Seoul, South Korea 2010

*Heat-related mortality and heat watch-warning systems in the United States: Recent developments*

Annual Meeting of the Association of American Geographers Washington, District of Columbia 2010

*The season cycle of warm weather-related mortality across the US*

Annual Meeting of the American Meteorological Society Atlanta, Georgia 2010

*\*The incorporation of seasonal and temporal variability in mortality response to hot weather into operational heat watch-warning systems*

Applied Geography Conference Baton Rouge, Louisiana 2009

*The seasonality of warm weather mortality across the United States*

International Congress of Biometeorology Tokyo, Japan 2008

*Temporal trends in heat-related mortality across the US*

Conference on BiogeosciencesOrlando, Florida 2008

*Temporal variability in mortality response to hot weather across US metropolitan areas, 1975-2004*

Annual Meeting of the Association of American Geographers Boston, Massachusetts 2008

*The spatial synoptic classification: new advances and the creation of climate zones*

Annual Meeting of the Association of American Geographers San Francisco, California 2007

*A further evaluation of the spatial and temporal variability of aerosols across North America: influence of lower tropospheric flow*

[Conference on Biometeorology and AerobiologySan Diego, California](http://www.ametsoc.org/meet/fainst/vancouver2004.html) 2006

*A survey of the public perception and response to heat warnings and advisories*

Annual Meeting of the Association of American Geographers Chicago, Illinois 2006

*Heat warnings and the perception of vulnerability*

Annual Meeting of the American Meteorological Society Atlanta, Georgia 2006

*A survey of the public perception and response to heat warnings and advisories*

Annual Meeting, East Lakes Division of the Association of American Geographers Bowling Green, Ohio 2005

*Heat warnings and the perception of vulnerability*

International Congress of Biometeorology Garmisch, Germany 2005

*Operational considerations in heat watch-warning system development*

*The perception of and response to heat warnings*

Annual Meeting of the Association of American Geographers Denver, Colorado 2005

*Separating the effects of weather and pollution on acute human mortality*

Annual Meeting of the American Meteorological Society San Diego, California **2005**

*The design and operation of heat watch warning systems*

East Lakes Division of the Association of American Geographers Meeting Athens, Ohio 2004

*Heat warnings: do people listen?*

[Conference on Biometeorology and Aerobiology](http://www.ametsoc.org/meet/fainst/vancouver2004.html) **Vancouver, British Columbia 2004**

*Human perception and response to heat warnings*

Conference of the International Society for Environmental Epidemiology New York, New York 2004

*A synoptic climatological approach to separate weather- and pollution-induced impacts on human mortality*

Annual Meeting of the Association of American Geographers Philadelphia, Pennsylvania 2004

*A synoptic approach to evaluating the spatial and temporal variability of aerosols across North America*

Conference on Applied Climatology Seattle, Washington 2004

*\*Heat watch-warning systems: operational consideration and system design*

Annual Meeting of the Association of American Geographers New Orleans, Louisiana 2003

*North American weather-type frequency and teleconnection indices*

International Congress of Biometeorology Kansas City, Missouri 2002

*Rural-urban differences in heat-related mortality in Ohio*

National Council for Geographic Education Philadelphia, Pennsylvania 2002

*The Development of Heat Watch-Warning Systems for Cities Worldwide*

Conference on Applied Climatology Portland, Oregon 2002

*Using a synoptic classification scheme to assess rural-urban differences in heat vulnerability*

North American Urban Heat Island Summit Toronto, Ontario 2002

*The development of the new Toronto Heat-Health Alert System*

Annual Meeting of the Association of American Geographers Los Angeles, California 2002

*Weather-related mortality in Ohio: county-by-county analysis*

Lilly West Conference Pomona, California 2002

*Understanding the complexity of climate change through active learning*

East Lakes Division of the Association of American Geographers Meeting Cincinnati, Ohio 2001

*Weather-related mortality in Ohio: county-by-county analysis*

Annual Meeting of the Association of American Geographers New York, New York 2001

*Development of heat watch-warning systems for cities worldwide*

East Lakes / West Lakes Regional Meeting of the Association of American Geographers Oxford, Ohio 2000

*Development of heat watch-warning systems for cities worldwide*

International Congress of Biometeorology / Urban Climatology Sydney, Australia 1999

*An evaluation of the variability of air mass character between urban and rural areas*

Conference on Applied Climatology Dallas, Texas 1999

*Redevelopment of a spatial synoptic classification for year-round application*

Global Warming 9 Conference Hong Kong 1998

*Health watch/warning systems in urban areas*

Conference on Applied Climatology Reno, Nevada 1997

*Using a synoptic classification system to assess climate trends and variability in Texas*

Southern Region (NOAA) Institutes Meeting College Station, Texas 1995

*Lightning and precipitation relationships from the 15 - 19 October 1994 Southeast Texas Storm System*

**INVITED COLLOQUIUM AND SYMPOSIUM TALKS**

Department of Physics, Kent State University Kent, Ohio 2018

*Using self-organizing maps to understand the influence of the atmosphere on water level and quality*

Resilience Collaborative Seminar Series, Old Dominion University Norfolk, Virginia 2018

*The role of atmospheric circulation patterns on short -term sea-level fluctuations along the eastern seaboard of the US*

Department of Geography, University of Northern Illinois DeKalb, Illinois 2017

*Human Vulnerability to Heat Past, Present, Future*

Umea University Umeå, Sweden 2017

*Recent climate change science and policy*

Institute of Science and the Environment, Mansfield University Mansfield, Pennsylvania 2017

*The Way Forward in Climate Change Policy* [KEYNOTE]

Department of Geography, University of Georgia Athens, Georgia 2016

*Human Vulnerability to Heat Past, Present, Future*

New York State Department of Health Albany, New York 2014

*Temporal trends in heat-related mortality and morbidity*

Environment Canada 2014

*Web-based hypothermia information: a critical assessment of Internet resources and a comparison to peer-reviewed literature* (webinar; J. Spencer, lead presenter)

New Frontiers Series, University of Toronto-Scarborough Toronto, Ontario 2014

*Projecting the uncertainty in climate change and its impacts: a case study of heat-related mortality in California*

Department of Geosciences, University of Akron Akron, Ohio 2013

*Projecting the uncertainty in climate change and its impacts: a case study of heat-related mortality in California*

California Air Resources Board Sacramento, California 2011

*A Spatial Synoptic Classification Approach to Projected Heat Vulnerability in California under Future Climate Change Scenarios*

Climate Change: Impacts on Emergency Management and Homeland Security Symposium Akron, Ohio 2011

*Climate change and the science of uncertainty*

Korean Meteorological Administration Seoul, South Korea 2010

*The Scientific Basis of Heat Watch Warning Systems*

National Center for Public Health Chisinau, Moldova 2010

*Communication, intervention, and mitigation activities in heat watch-warning systems*

Department of Earth Sciences, California University of Pennsylvania California, Pennsylvania 2007

*Forecasting and mitigating heat-related mortality*

Department of Biological Sciences, Kent State University Kent, Ohio 2007

*Forecasting and mitigating heat-related mortality*

Educating Ourselves about Climate Change, Cleveland Museum of Natural History Cleveland, Ohio 2006

*Global climate change and human health*

Global Climate Change Symposium, John Carroll University Cleveland, Ohio 2006

*What is global climate change?*

Department of Geography, University of Northern Illinois DeKalb, Illinois 2005

*A synoptic climatological approach to separate weather- and pollution-induced impacts on human mortality*

Department of Geography, Ball State University Muncie, Indiana 2003

*Spatial analysis of heat-related mortality: understanding and forecasting oppressive heat*

Ohio Weather Symposium Columbus, Ohio 2002

*Understanding, forecasting, and mitigating heat-related mortality*

Celebration of Scholarship, Kent State University Kent, Ohio 2002

*Heat-related mortality in Ohio*

Colloquium, West Virginia University, Department of Geography and Geology Morgantown, West Virginia 2001

*Spatial analysis of heat-related mortality: understanding and forecasting oppressive heat*

**WORKSHOPS**

International Society of Biometeorology Students and New Professionals Workshop Norfolk, Virginia 2016

Discussant

Expert Meeting for the Implementation of Bioclimatic and Biometeorological Forecasts in Latin America and the Caribbean Havana, Cuba 2015

*Biometeorological warnings: Perception and response*

International Society of Biometeorology Students and New Professionals Workshop Vindeln, Sweden 2014

*The Spatial Synoptic Classification and Applications*

Translating Science/Telling Stories- What we talk about when we talk about Climate Change Cleveland, Ohio 2012

*Climate Change and Health in the Great Lakes Region*

Measuring the costs of climate change to public health,Union of Concerned Scientists Boston, Massachusetts 2011

Discussant

Workshop participant, Climate Prediction Applications Science Workshop Des Moines, Iowa 2011

*Excessive heat and health*

NCAR Workshop on Climate and Health Topic: Effects of Heat Waves and Air Pollution Boulder, Colorado 2009

*Adaptation*

Public Health Response to Climate Change: Effective Health Communication and Marketing Fairfax, Virginia 2008

Discussant

NSF Graduate Teaching Fellows in K-12 Education Project Meeting Washington, District of Columbia 2008

*GK-12 in Iceland*

Workshop on Excessive Heat: Confronting climate change, vulnerability, and urbanization by improving heat-health services, mitigation strategies, and communication Phoenix, Arizona 2007

*Heat warning perception and communication.*

Heat-Health Watch-Warning System Workshop, Department of Public Health Montreal, Quebec 2006

*Heat vulnerability and HWWS development in smaller locations*

*The development and implementation of synoptic heat-watch warning systems*

Climate Change and Adaptation Strategies for Human Health Workshop on Vulnerability to Thermal Stresses Freiburg, Germany 2003

*Heat-health warning systems: overview*

PHEWE Heat Stress Watch Warning System Group Meeting Freiburg, Germany 2003

*Watch-warning systems: scientific basis and operational principles*

**PUBLIC TALKS**

League of Women Voters Fairlawn, Ohio 2018

*Climate Change*

Symposium speaker, Cleveland Botanical Garden Cleveland, Ohio 2013

*Climate Change*

Adult Development and Well-being program, Kent State University Kent, Ohio 2008

*Older adults and the heat*

Metro Parks, Serving Summit County, Akron, Ohio 2007

*Climate change and health: global and local impacts.*

Kent Environmental Forum Kent, Ohio 2006

*Global climate change.*

Wolf Creek Environmental Center Medina, Ohio 2005

*Global warming*

Earth Day Forum, Kent State University Kent, Ohio 2002

*Climate change and health impacts*

Meeting of the Northeast Ohio Chapter of the American Meteorological Society Kent, Ohio 2002

*Understanding and forecasting oppressive heat*

**MEDIA**

Forum 360 (TV) Hudson, Ohio 2018

Panelist on *Climate Change*