DAVID M. HONDULA

C.V. November 2020

Current affiliation: School of Geographical Sciences and Urban Planning, Arizona State University
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PROFESSIONAL APPOINTMENTS

2016–present Arizona State University, Tempe, AZ
- Associate Professor, School of Geographical Sciences and Urban Planning (2020–)
- Assistant Professor, School of Geographical Sciences and Urban Planning (2016–2020)
- Graduate Faculty, Environmental Social Science
- Honors Faculty, Barrett Honors College
- Senior Sustainability Scientist, Julie Ann Wrigley Global Institute of Sustainability
- Resilience Fellow, Knowledge Exchange for Resilience
- Affiliate Faculty: Urban Climate Research Center, Center for Smart Cities and Regions, School for the Future of Innovation in Society

2015–present Maricopa County Department of Public Health, Phoenix, AZ
- Affiliate Academic Faculty

2013–2015 Arizona State University, Phoenix, AZ
- Assistant Research Professor/Postdoctoral Fellow, School of Public Affairs

2006–2013 University of Virginia, Charlottesville, VA
- Instructor and Graduate Teaching/Research Assistant, Department of Environmental Sciences

EDUCATION

2013 Ph.D., Environmental Sciences, University of Virginia, Charlottesville, VA (Dr. Robert E. Davis, Chair)
Dissertation title: *Geographic Dimensions of Heat-Related Mortality in Seven U.S. Cities*

2012 Visiting Ph.D. Student, Institute of Health and Biomedical Innovation
Queensland University of Technology, Brisbane, Australia (Dr. Adrian Barnett, Host)

2011 Visiting Ph.D. Student, Center for Global Health Research
Umeå University, Umeå, Sweden (Dr. Joacim Rocklöv, Host)

2009 M.S., Environmental Sciences, University of Virginia, Charlottesville, VA (Dr. Robert E. Davis, Chair)
Thesis title: *Decadal-Scale Trends in Transition Weather Types and Atmospheric Circulation Patterns*

2006 B.A., Environmental Sciences, University of Virginia, Charlottesville, VA

RESEARCH INTERESTS

Atmospheric Hazards	Environmental Health	Heat Exposure
Climate Change	Urban Climate	Climate Adaptation

BIBLIOGRAPHY

Google Scholar metrics as of 11/28/2020: 1509 citations, h-index 22

Refereed Journal Articles – Asterisk (*) indicates lead and/or corresponding authorship. *Italics* in author list denotes mentored students. Author order typically reflects descending order of contribution, with the exception of certain public health articles in which the last author(s) has contributed substantially to conceptual development of the article and assumes a leadership role in its writing. Article annotations in brackets: [Impact factor (IF) in year of publication, invited contribution (where appropriate). Role on publication].

In press

5X. *Chakalian PC, Kurtz LC,* Harlan SL, White DD, Gronlund CJ, **Hondula DM.** Exploring the social, psychological, and behavioral mechanisms of heat vulnerability in the City of Phoenix, AZ. *Journal of Extreme Events*, in press.

5X. Vanos JK, *Wright MK,* Middel A, *Kaiser A, Ambrose H,* **Hondula DM.** Perceptions and performance of evaporative misters on outdoor thermal comfort. *International Journal of Biometeorology*, in press.

5X. **Hondula DM**, Kuras ER, *Betzel S, Drake L, Eneboe J, Kaml M, Munoz M, Sevig M, Singh M,* Ruddell R, Harlan SL. Novel metrics for relating personal heat exposure to social risk factors and outdoor ambient temperature. *Environment International*, in press.

4X. Ebi KL, Vanos J, Baldwin JW, Belle JE, **Hondula DM**, Errett NA, Hayes K, Reid CE, Saha S, Spector J, Berry P. Extreme weather and climate change: population health and health system implications. *Annual Review of Public Health*, in press.

2020

48. *Guardaro M,* Messerschmidt M, **Hondula DM,** Grimm NB, Redman CL. Building community heat action plans story by story: A three neighborhood case study. *Cities*, online first publication. https://doi.org/10.1016/j.cities.2020.102886

47. *Wright MK,* **Hondula DM**¸*Chakalian PM, Kurtz LC, Watkins L,* Gronlund CJ, Larsen L, Mallen E, Harlan SL. Social and behavioral determinants of indoor temperatures in air-conditioned homes. *Building and Environment*, online first publication. https://doi.org/10.1016/j.buildenv.2020.107187

46. *Linsell J,* Pelham E, **Hondula DM**, Wardenaar F. Hiking time trial performance in the heat with real-time observation of heat strain, hydration status, and fluid intake behavior. *International Journal of Environmental Research and Public Health* 17(11): 4086. https://doi.org/10.3390/ijerph17114086

45. Hamstead Z, Coseo P, AlKhaled S, Boamah EF, **Hondula DM**, Middel A, Rajkovich N. Thermally resilient communities: creating a socio-technical collaborative response to extreme temperatures. *Buildings and Cities* 1(1): 218–232. doi: 10.5334/bc.15

44. Davis RE, **Hondula DM**, Sharif H. Examining the diurnal temperature range enigma: Why is human health related to the daily change in temperature? *International Journal of Biometeorology* 64(3):397–407. https://doi.org/10.1007/s00484-019-01825-8

43. Lanza K, Stone B, *Chakalian PM,* Gronlund C, **Hondula DM,** Larsen L, Mallen E, Haardorfer R. Physical activity in the summer heat: How hot weather moderates the relationship between built environment features and outdoor physical activity of adults. *Journal of Physical Activity & Health* 17(3):261–269. doi: 10.1123/jpah.2019-0399

2019

42. *Chakalian PM, Kurtz EC,* **Hondula DM.** After the Lights Go Out: Household resilience to electrical grid failure following Hurricane Irma. *Natural Hazards Review* 20(4), 05019001.

https://doi.org/10.1061/(ASCE)NH.1527-6996.0000335 [IF=1.3, invited contribution. Co-designed study, contributed to writing, revisions, analysis]

41. *Andrade R*, Larson KL, Franklin J, **Hondula DM.** Social-spatial analyses of attitudes towards the desert in a Southwestern U.S. city. *Annals of the American Association of Geographers*, online first publication. https://doi.org/10.1080/24694452.2019.1580498 [IF=2.8. Assisted with analysis and writing of select sections, editing and revising manuscript]

40. Larson KL, Corley E, Hall S, York A, *Andrade R*, Childers D, Coseo P, **Hondula DM**, Meerow S. Subjective evaluation of ecosystem services and disservices: an approach for creating robust survey scales. *Ecology and Society* 24(2):7. https://doi.org/10.5751/ES-10888-240207 [IF=3.3. Assisted with writing of one section of manuscript and proofreading]

39. Urban A, **Hondula DM**¸ Kysely J, Hanzlikova H, 2019. The predictability of heat-related mortality in Prague, Czech Republic during summer 2015 – A comparison of selected thermal indices. *International Journal of Biometeorology*, online first publication. https://doi.org/10.1007/s00484-019-01684-3 [IF=2.6. Co-designed study, contributed to writing, revisions, analysis]

2018

38. Furberg M, **Hondula DM**, Saha MV, Nilsson M. In the light of change: A mixed methods investigation of climate perceptions and the instrumental record in northern Sweden, 2018. *Population and Environment* 40(1), 47-71. https://doi.org/10.1007/s11111-018-0302-x [IF=1.6. Conceived of and designed study, wrote large portions of text and conducted all statistical analysis, generated figures, contributed to revisions]

37. *Hoehne C*, **Hondula DM**, Chester M, Eisenman D, Middel A, Fraser A, Watkins L, Gerster K, 2018. Outdoor heat exposure in the U.S. varies significantly by city, demography, and activity. *Health and Place* 54, 1-10. https://doi.org/10.1016/j.healthplace.2018.08.014 [IF=3.0. Co-designed study, contributed to writing and revisions]

36*. *Putnam H*, **Hondula DM**, Urban A, Berisha V, Iniguez P, Roach M, 2018. It's not the heat, it's the vulnerability. Attribution of the 2016 spike in heat-associated deaths in Maricopa County, Arizona. *Environmental Research Letters* 13(9), 094022. https://doi.org/10.1088/1748-9326/aadb44 [IF=4.5. Conceived of and co-designed study, wrote portions of text and conducted some analysis, generated figures, contributed to revisions]

35. Sewe MO, Bunker A, Ingole V, Egondi T, Oudin Astrom D, **Hondula DM,** Rocklov J, Schumann B, 2018. The impact of temperature on years of life lost: A retrospective time series comparison of low-, middle-, and high-income regions. *Environmental Health Perspectives* 126(1), 017004. https://doi.org/10.1289/EHP1745 [IF=8.3. Contributed to study design, provided data sets, assisted with analysis, writing, revisions]

2017

34*. **Hondula DM,** Balling Jr. RC, *Andrade R*, Krayenhoff ES, Middel A, Urban A, Georgescu M, Sailor DJ, 2017. Biometeorology for Cities. *International Journal of Biometeorology* 61(1), 59-69. https://doi.org/10.1007/s00484-017-1412-3 [IF=2.6, invited contribution. Conceived of and designed study, coordinated effort, wrote large portions of text and led analysis, led revisions]

33. Allen MJ, Vanos JK, **Hondula DM**, Vecellio DJ, Knight DB, Mehdipoor H, Lucas R, Fuhrmann C, Lokys H, Lees A, Tavares Nascimentio S, Leung ACW, Perkins DR, 2017. Supporting Sustainability Initiatives Through Biometeorology Education and Training. *International Journal of Biometeorology*, 61(1), 93-106. https://doi.org/10.1007/s00484-017-1408-z [IF=2.6, invited contribution. Contributed to conceptual development, led writing of select sections of manuscript and helped with revisions throughout]

32*. *Kuras ER*, Bernhard MC, Calkins MM, Ebi KL, Hess JJ, Kintziger KW, Jagger MA, Middel A, Scott AA, Spector JT, Uejio CK, Vanos JK, Zaitchik BF, Gohlke JM, **Hondula DM**, 2017. Opportunities and Challenges for Personal Heat Exposure Research. *Environmental Health Perspectives* 125(8), 85001. https://doi.org/10.1289/EHP556 [IF=8.3. Led conceptual design and coordination of authorship team, led writing of select sections of manuscript, coordinated revisions]

31*. **Hondula DM**, *Kuras ER*, Longo J, Johnston EW, 2017. Toward Precision Governance: Infusing Data into Public Management of Environmental Hazards. *Public Management Review*, 20(5), 746-765. https//doi.org/10.1080/14719037.2017.1320043. [IF=3.2. Led conceptual development and writing of manuscript]

30. Berisha V, **Hondula DM**¸ Roach M, White JR, McKinney B, Bentz D, Mohamed A, *Uebelherr J*, Goodin K, 2017. Assessing Adaptation Strategies for Extreme Heat: A Public Health Evaluation of Cooling Centers in Maricopa County, Arizona. *Weather, Climate, and Society* 9(1), 71-80. https://doi.org/10.1175/WCAS-D-16-0033.1 [IF=2.0. Contributed to conceptual development and study design, led framing of article and writing of several sections, contributed to revisions throughout]

29. Longo J, *Kuras ER*, *Smith H*, **Hondula DM**, Johnston EJ, 2017. Technology Use, Exposure to Natural Hazards, and Being Digitally Invisible: Implications for Policy Analytics. *Policy & Internet* 9(1), 76–108. https://doi.org/10.1002/poi3.144 [IF=NA. Contributed to analysis and led writing of select sections]

2016

28. Henderson SB, Gauld JS, Rauch SA, McLean KE, Krstic N, **Hondula DM**¸ Kosatsky T, 2016. A proposed method to probabilistically separate excess deaths from expected deaths during extreme hot weather events. *Environmental Health* 15(1):109. https://doi.org/10.1186/s12940-016-0195-z [IF=3.8. Contributed to concept and study design, contributed to writing and revisions]

27. Gosling SN, **Hondula DM**, Bunker A, Ibarreta D, Lui J, Zhang X, Sauerborn R, 2016. Adaptation to climate change: a comparative analysis of modeling methods for heat-related mortality. *Environmental Health Perspectives* 125(8): 087008. https://dx.doi.org/10.1289%2FEHP634 [IF=9.8. Conceived of and co-designed study with lead author, contributed to analysis, led writing of several sections of manuscript and assisted with revisions throughout]

26. Oudin Åström D, Edvinsson S, **Hondula DM**, Rocklöv J, Schumann B, 2016. Impact of weather variability on total and cause-specific mortality before and during the industrialization in Sweden. *Demographic Research* 35:991-1010. https//doi.org/10.4054/DemRes.2016.35.33 [IF=1.3. Contributed select analyses and assisted with writing and revisions throughout]

25. Fraser AM, Chester MV, Eisenman D, **Hondula DM**, Pincetl SS, English P, Bondank E, 2016. Household Accessibility to Heat Refuges: Residential Air Conditioning, Public Cooled Space, and Walkability. *Environment and Planning B: Planning and Design* 0265813516657342. https://doi.org/10.1177/0265813516657342 [IF=1.5. Contributed to writing of select sections and revisions throughout]

24. Dixon PG, Allen M, Gosling SN, **Hondula DM**, Ingole V, Lucas R, Vanos J, 2016. Perspectives on the Synoptic Climate Classification and its Role in Interdisciplinary Research. *Geography Compass* 10(4), 147-164. https://doi.org/10.1111/gec3.12264 [IF=NA. Contributed to conceptual design of article and writing of select sections]

23. Davis RE, **Hondula DM**, *Patel AP*, 2016. Temperature Observation Time and Type Influence Estimates of Heat-Related Mortality in Seven U.S. Cities. *Environmental Health Perspectives* 124(6), 795-804. https://doi.org/10.1289/ehp.1509946 [IF=9.8. Led design of study and analysis, led writing of several sections of manuscript and contributed to revisions throughout]

2015

22. Karner A, **Hondula DM**, Vanos JK, 2015. Heat exposure and vulnerability during non-motorized travel: Implications for transportation policy under climate change. *Journal of Transport & Health* 2(4), 451-459. https://doi.org/10.1016/j.jth.2015.10.001 [IF=2.1. Co-led conceptual and study design, contributed data and assisted with analysis, led writing of select sections of manuscript]

21. Petitti DB, **Hondula DM**, Yang S, Harlan SL, Chowell G, 2015. Multiple Trigger Points for Quantifying Heat-Health Impacts: New Evidence from a Hot Climate. *Environmental Health Perspectives* 124(2), 176-183. https://doi.org/10.1289/ehp.1409119 [IF=8.4. Co-led conceptual and study design, assisted with analysis, wrote several sections of manuscript and assisted with revisions throughout]

20*. **Hondula DM**, Balling Jr. RC, Vanos JK, Georgescu M, 2015. Rising Temperatures, Human Health, and the Role of Adaptation. *Current Climate Change Reports*. https://doi.org/10.1007/s40641-015-0016-4. [IF=NA (new journal), invited contribution. Conceived of and framed article, led writing and revisions, coordinated authorship team.]

19*. **Hondula DM**, Davis RE, *Saha MV, Wegner CR, Veazey ML*, 2015. Geographic Dimensions of Heat-Related Mortality in Seven U.S. Cities. *Environmental Research* 138: 439–452. https://doi.org/10.1016/j.envres.2015.02.033 [IF=3.1. Conceived of and designed study, led writing, analysis, revisions]

18. *Kuras ER*, **Hondula DM**, Brown-Saracino J, 2015. Heterogeneity in Individually Experienced Temperatures (IETs) within an Urban Neighborhood: Insights from a New Approach to Measuring Heat Exposure. *International Journal of Biometeorology* 59(10), 1363-1372. https://doi.org/10.1007/s00484-014-0946-x [IF=2.3. Co-led design of analysis and framing of article, led writing of select sections of manuscript and certain analyses, contributed to revisions throughout]

2014

17*. **Hondula DM**, Georgescu M, Balling Jr. RC, 2014. Challenges associated with projecting urbanization-induced heat-related mortality. *Science of the Total Environment* 490C 538–544. https://doi.org/10.1016/j.scitotenv.2014.04.130. [IF=4.1. Co-led conceptual and study design, led analysis, writing, revisions]

16*. **Hondula DM**, Davis RE, 2014. The predictability of high-risk zones for heat-related mortality in seven U.S. cities. *Natural Hazards*. https://doi.org/10.1007/s11069-014-1213-5. [IF=1.7. Conceived of and designed study, led writing, analysis, revisions]

15*. **Hondula DM,** Barnett AG, 2014. Heat-related morbidity in Brisbane, Australia: Spatial variation and area-level predictors. *Environmental Health Perspectives* 122(8): 831-836. https://doi.org/10.1289/ehp.1307496. [IF=8.0. Conceived of and designed study, led writing, portions of analysis, and revisions]

14. Gosling SN, Bryce EK, Dixon PG, Gabriel KA, Gosling EY, Hanes J, **Hondula DM**, Liang L, MacLean PAB, Muthers S, Nascimeno ST, Petralli M, Vanos JK, Wanka ER, 2014. A glossary for biometeorology. *International Journal of Biometeorology* 58(2) 277–308. https://doi.org/10.1007/s00484-012-0619-6 [IF=3.2. Contributed to conceptual design of article, led authorship of select sections and revisions throughout]

13*. **Hondula DM**, Vanos JK, Gosling SN, 2014. The SSC: A decade of climate-health research and future directions. *International Journal of Biometeorology* 58(2) 109–120. https://doi.org/10.1007/s00484-012-0619-6. [IF=3.2, Co-led conceptual design and article framing, led writing, analysis, revisions].

2013

12*. **Hondula DM**, Davis RE, Rocklöv JR, *Saha MV*, 2013. A time series approach for evaluating intra-city heat-related mortality. *Journal of Epidemiology and Community Health* 67(8) 707–712. https://doi.org/10.1136/jech-2012-202157. [IF=3.3, Conceived of and designed study, led writing, analysis, revisions]

11. *Saha MV*, Davis RE, **Hondula DM**, 2013. Mortality Displacement as a Function of Heat Event Strength in Seven U.S. Cities. *American Journal of Epidemiology* 179(4) 467–474. https://doi.org/10.1093/aje/kwt264 [IF=5.0, Contributed to conceptual and study design, acquired data, assisted with analysis, writing, revisions]

10*. **Hondula DM**, Knight DB, Stewart DP, Williams AL, 2013. A strategy to reduce financial risk facing intercollegiate athletic departments from variable ticket revenue. *Journal of Applied Business and Economics* 14(4) 130–144. [IF=NA. Conceived of and designed study, led writing, analysis, revisions]

2012

9*. **Hondula DM**, Davis RE, *Leisten MJ, Saha MV, Veazey LM, Wegner CR*, 2012. Fine-scale spatial variability of heat-related mortality in Philadelphia County, USA, from 1983–2008. *Environmental Health* **11** (16). https://doi.org/10.1186/1476-069X-11-16. [IF=2.7, Conceived of and designed study, led writing, analysis, revisions]

8*. **Hondula DM,** Rocklöv J, Sankoh OA, 2012. Past, present and future climate at select INDEPTH network Health Demographic Surveillance Sites. *Global Health Action* **5**: 19083. https://doi.org/10.3402/gha.v5i0.19083 [IF=2.1. Co-led study design, led writing, analysis, revisions]

7*. **Hondula DM,** Davis RE, Knight DB, Sitka LJ, Enfield K, Gawtry SB, Stenger PJ, Deaton ML, Normile CP, Lee TR, 2012. A Respiratory Alert Model for the Shenandoah Valley, Virginia, USA. *International Journal of Biometeorology* 57(1), 91-105. https://doi.org/10.1007/s00484-012-0537-7. [IF=2.6. Contributed to study design, led writing, analysis, revisions]

2011

6*. **Hondula DM**, Davis RE, 2011. Declining United States Dew Point Temperature and Sea-level Pressure Variability and Implications on Synoptic Transition Frequency. *Climate Research* **46** (2) 121–136. https://doi.org/10.3354/cr00971. [IF=2.0. Conceived of and designed study, led writing, analysis, revisions]

5*. **Hondula DM**, Davis RE, 2011. Climatology of Winter Transition Days for the Contiguous United States, 1951–2007. *Theoretical and Applied Climatology* **103**:27–37. https://doi.org/10.1007/s00704-010-0278-7. [IF=1.9. Conceived of and designed study, led writing, analysis, revisions]

2010 and earlier

4*. **Hondula DM,** Dolan R, 2010. Predicting Severe Winter Coastal Storm Damage. *Environmental Research Letters* **5** (3). https://doi.org/10.1088/1748-9326/5/3/034004 [IF=3.0. Helped conceive and design study, led writing, analysis, revisions]

3. Davis RE, Normile CP, Sitka L, **Hondula DM**, Knight DB, Gawtry SP, Stenger PJ, 2010. A Comparison of Trajectory and Air Mass Approaches to Examine Ozone Variability. *Atmospheric Environment* **44** 64–74. https://doi.org/10.1016/j.atmosenv.2009.09.038. [IF=3.2. Contributed to study design, ran select analyses, contributed to writing and revisions]

2*. **Hondula DM**, Sitka L, Knight D, Davis R, Gawtry S, Lee T, Stenger P, 2009. A Back-Trajectory and Air Mass Climatology for the Northern Shenandoah Valley, USA. *International Journal of Climatology* **30** (4) 569-581. https://doi.org/10.1002/joc.1896. [IF=2.3. Contributed to study design, ran portions of analysis, led writing, analysis, revisions]

1. Knight DB, Davis RE, Sheridan SC, **Hondula DM**, Sitka LJ, Deaton ML, Lee TR, Gawtry S, Stenger PJ, Mazzei F, Barrett KP, 2008. Increasing Frequencies of Warm and Humid Air Masses Over the United States from 1948–2005. *Geophysical Research Letters* **35**, L10702. https://doi.org/10.1029/2008GL03697. [IF=3.0, contributed to writing and revisions of select sections of manuscript]

Refereed Book Chapters, Editorials, Conference Proceedings, and Other Contributions

19. Harlan SL, *Chakalian P*, Declet-Barreto J, **Hondula DM,** Jenerette DG, 2019. Pathways to Climate Justice in a Desert Metropolis. Book chapter in: People and Climate Change: Vulnerability, Adaptation, and Social Justice. L. Mason and J. Rigg, editors. Oxford University Press.

18. *Guyer H, Putnam H,* Roach M, Iniguez P, **Hondula DM**, 2019**.** Cross-sector management of extreme heat risks in Arizona. Meeting summary, *Bulletin of the American Meteorological Society,* ES101-ES104. https://doi.org/10.1175/BAMS-D-18-0183.1

17. **Hondula DM,** Sabo JL, Quay R, Chester M, Georgescu M, Grimm NB, Harlan SL, Middel A, Porter S, Redman CL, Rittmann B, Ruddell BL, White DD, 2019. Cities of the Southwest are testbeds for urban resilience. Peer-reviewed commentary in *Frontiers in Ecology and Environment*, **17**, 79–80. https://doi.org/10.1002/fee.2005

16. Ebi KL, **Hondula DM**, Kinney P, Monaghan A, Morin CW, Ogden N, Springmann M, 2019. Health risks of climate variability and change. Book chapter in: Handbook of Environmental and Ecological Statistics. A. Gelfand, M. Fuentes, J. Hoeting, and R. Smith, editors. Chapman and Hall/CRC. https://doi.org/10.1201/9781315152509

15. **Hondula DM**, Davis RE, Georgescu M, 2018. Clarifying the connections between green space, urban climate, and heat-related mortality. Invited and reviewed editorial to *American Journal of Public Health* 108(S2),S62-S63. https://doi.org/10.2105/AJPH.2017.304295

14. Davis RE, **Hondula DM**, 2018. Are Non-US Citizens More Likely to Die From Heat Exposure? Invited and reviewed editorial to *American Journal of Public Health* 108(S2), S60-S61. https://doi.org/10.2105/AJPH.2017.304191

13. **Hondula DM,** Middel A, Vanos JK, Herdt L, Kaiser A, 2017. Urban water infrastructure for cooling: Case studies from humid and arid cities. *Regions Magazine* 306(1), 20–23.

12. *Uebelherr JM,* **Hondula DM**, Johnston EW, 2017. Using participatory modeling to enable local innovation through complexity governance. Book chapter in: Innovation Networks for Regional Development. B. Vermeulen, editor. Springer.

11. *Uebelherr JM,* **Hondula DM**, Johnston EW, 2015. Innovative participatory agent based modeling using a complexity governance perspective. *Proceedings of the 16th Annual International Conference on Digital Government Research, Tempe, AZ, May 2015*.

10. Longo J, Wald D, **Hondula DM**, 2015. The Future of Policy Informatics. Book chapter in: Governance in the Information Era: Theory and Practice of Policy Informatics. E.W. Johnston, editor. Taylor & Francis.

9. Parkinson A, Evengard B, Semenza JC, Ogden N, Borresen ML, Berner J, Brubacker M, Sjostedt A, Evander M, **Hondula DM**¸ Menne B, Pshenichnaya N, Gounder P, Larose T, Revich B, Hueffer K, Albihn A, 2014. Climate change and infectious disease in the Arctic: Establishment of a circumpolar working group. *International Journal of Circumpolar Health* 73: 25163.

8. **Hondula DM**, Krishnamurthy R, 2014. Emergency Management in the Era of Social Media. Book Review for *Public Administration Review* 74(2) 274–277. DOI: 10.1111/puar.12184.

7. **Hondula DM,** Davis RE. Geographic Dimensions of Heat-Related Mortality in Seven U.S. Cities. *Proceedings of the 19th International Congress of Biometeorology, Auckland, New Zealand, December 2011.*

6. **Hondula DM**, Sitka L, Knight D, Davis RE, Gawtry S, Deaton M, Normile C, Lee T, Stenger PJ. The Impact of Weather on Predictors of Respiratory Distress in the Shenandoah Valley, USA. *Proceedings of the 18th International Congress of Biometeorology, Japan, Sept. 2008.*

5. Davis RE, **Hondula DM**, Sitka L, Knight D, Deaton M, Gawtry S, Stenger PJ, Normile C, Lee T. An Asthma/Respiratory Alert System for the Shenandoah Valley, Virginia, USA. *Proceedings of the 18th International Congress of Biometeorology, Japan, Sept. 2008.*

4. Davis RE, **Hondula DM**, Sitka L, Knight D, Deaton ML, Gawtry S, Stenger PJ, Normile C, Lee T. Weather, Climate, and Respiratory Health in the Shenandoah Valley, Virginia. *Proceedings of the 18th AMS Conference on Atmospheric BioGeosciences, Apr. 2008.*

3. Deaton ML, Brodrick CJ, Davis RE, Gawtry S, Giraytys J, **Hondula DM**, Knight D, Lee T, Sitka L, Stenger PJ. Decision Support for Public Health and Safety Related to Air Quality. *Proceedings of the AMS 88th Annual Meeting, New Orleans, LA, Jan. 2008.*

2. Davis RE, Sitka L, **Hondula DM**, Gawtry S, Knight D, Lee T, Stenger PJ. A preliminary back-trajectory and air mass climatology for the Shenandoah Valley. *Proceedings of the 16th AMS Conference on Applied Climatology and 19th AMS Conference on Climate Variability and Change, Jan 2007.*

1. Davis R, Knight D, **Hondula DM**, Knappenberger C. A comparison of Biometeorological 'Comfort Indices' and Human Mortality in the United States. *Proceedings of the AMS 17th Conference on Biometeorology and Aerobiology, San Diego, CA, May 2006.*

Project Reports and Other Non-Refereed Contributions

12. *Chakalian PM, Kurtz LK,* **Hondula DM.** Understanding vulnerability and adaptive capacity to large-scale power failure in the United States, 2018. Natural Hazards Center Quick Response Grant Report #275.

11. Roach M, Barrett E, Brown HE, Dufour B, **Hondula DM**, Putnam H, Sosa B. 2017. Arizona's Climate and Health Adaptation Plan. A report prepared for the United States Centers for Disease Control and Prevention Climate-Ready States and Cities Initiative.

10. Chuang WC, Karner A, Selover N, **Hondula DM**, Chhetri N, Middel A, Roach M, Dufour B, 2015. Arizona Extreme Weather, Climate and Health Profile Report. A report prepared for Arizona Department of Health Services and the United States Centers for Disease Control and Prevention Climate-Ready Cities and States Initiative.

9. Knight DB, **Hondula DM**, 2015. Data-Driven Support for Students on the Path to College: Identifying useful variables for college planning throughout high schools. Final project report prepared for the Virginia Department of Education and Virginia Longitudinal Data System program.

8. **Hondula DM**, Davis RE. Assessing the impact of the built environment on human mortality during extreme heat events with LANDSAT data. *Proceedings of the Virginia Space Grant Consortium Annual Student Research Conference, Norfolk, VA, April 2013.*

7. **Hondula DM**, Davis RE. The Urban Heat Island During Extreme Heat Events: Assessing Variability to Understand Human Health Impacts. *Proceedings of the Virginia Space Grant Consortium Annual Student Research Conference, Williamsburg, VA, April 2012.*

6. The Informed Brain in a Digital World, 2012. Interdisciplinary Research Team Summaries from the 2012 National Academies Keck Futures Initiative Conference. Contributor to working group 6B. National Academies Press, ISBN 978-0-309-26888-2.

5. Seeing the Future with Imaging Science, 2010. Interdisciplinary Research Team Summaries from the 2010 National Academies Keck Futures Initiative Conference. Contributor to working group 3C. National Academies Press, ISBN 978-0-309-20906-9.

4. Davis RE, Gawtry SD, **Hondula DM**, Knight DB, Sitka LJ, Stenger PJ, 2009. Air Quality Climatology of the Shenandoah Valley and Asthma Alert System for the Shenandoah Valley. ShenAir Program Final Report submitted to U.S. National Oceanic and Atmospheric Administration (subcontract to James Madison University, Grant No. 529222).

3. Knight, DB, Davis, RE, Hondula, DM, Sitka, LJ, Gawtry, SD, Stenger, PJ, 2008. Climatological analysis of the PM2.5 forecast verification study conducted by James Madison University, November 2008.

2. Davis RE, Stenger PJ, Hondula DM, Sitka LJ, Knight DB, Gawtry SD, 2006. Air Quality Climatology of the Shenandoah Valley and Asthma Alert System for the Shenandoah Valley–Program Year 1.

1. **Hondula DM** and Knight D. Extending-Post Landfall Hurricane Decay Forecasts Based on Formation Mechanisms. *The Oculus, University of Virginia Undergraduate Research Journal, Spring 2005.*

Manuscripts Under Review

9. *Guardaro M*, **Hondula DM,** Ortiz J, Redman CL. Adaptive capacity to extreme urban heat: the dynamics of differing narratives. *Climate Risk Management,* under review.

8. *Thompsett D*, Vento K, Der Ananian C, **Hondula DM,** Wardenaar F. Effects of Macronutrient Feedings on Golf Performance and Levels of Fatigue. *International Journal of Sport Nutrition & Exercise Metabolism*, under review.

7. Rosenthal N, Chester M, Eisenman D, Fraser A, **Hondula DM.** Adaptive transit scheduling to reduce rider vulnerability during heatwaves. *Journal of Transport and Health*, under review.

6. *Dzyuban Y*, **Hondula DM,** Coseo PJ, Redman CL. Public Transit Infrastructure and Heat Perceptions in Hot and Dry Climates. *International Journal of Biometeorology*, in revision.

5. Hamstead Z, Perry V, *Watkins LE*, **Hondula DM**, Shandas V. Baked into the Built Environment: Heat inequity and the urban climate legacy of housing discrimination in the United States. *Journal of the American Planning Association*, in revision.

4. Lanza K, Stone Jr. B, *Chakalian PM*, Gronlund C, **Hondula DM**, Mallen E, O'Neill M, Haardorfer R. Behavior modification and heat vulnerability: How hot days and heat waves impact outdoor, indoor, and total physical activity levels of adults." *International Journal of Biometeorology*, in revision.

3. *Watkins LE, Chakalian PC, Kurtz LC, Wright MK*, Mallen ES, Harlan SL, **Hondula DM.** A comparison of two vulnerability indices to household experiences with extreme heat in Phoenix, Arizona. *Applied Geography*, revisions under review.

2. **Hondula DM**, Yang S, Ruddell BL, Harlan SL, Petitti DB. Optimizing Exposure Variable Selection for Heat-Health Risk Assessment: A Case Study in Maricopa County, Arizona. *Environmental Research*, in revision.

1. *Andrade R*, **Hondula DM,** Larson KL, Lerman S. Social-ecological interactions drive satisfaction and management of the urban forest in a desert city. *Urban Forestry & Urban Greening*, under review.

Published Data

Wright MK, **Hondula DM**, Watkins LE, Chakalian PM, Kurtz LC, Harlan SL, Larsen L, Gronlund CJ, Mallen E. 2020. Dataset for "Social and behavioral determinants of indoor temperatures in air-conditioned homes", Mendeley Data, v1. DOI: http://dx.doi.org/10.17632/t9cgvfd572.1

Wright MK, Watkins L, **Hondula DM**, Kurtz L, Chakalian P, Harlan SL, Declet-Barreto J. 2019. Social and Heat Vulnerability Indices in Phoenix, Arizona. Environmental Data Initiative. https://doi.org/10.6073/pasta/12992abf8e60106d7b0d9e186ede7b33. Dataset accessed 5/23/2019.

RESEARCH SUPPORT

Active Research Grants

National Science Foundation, 2019–2021 ($420,000, ASU component $60,000, co-PI). Dynamics of Integrated Socio-Environmental Systems (CNH2). "Toward a Theory of Urban Trees as Living Infrastructure." Principal and co-Investigators: Darrel Jenerette (University of California Riverside), Mikhail Chester and Ariane Middel (Arizona State University).

City of Phoenix and Bloomberg Philanthropies, 2019–2020 ($21,190, PI). "Pedestrian Heat Exposure Walkshed Model."

Healthy Urban Environments Initiative at ASU, 2019–2020 ($47,950, PI). "Developing and testing HeatReady standards for cities."

City of Phoenix and Bloomberg Philanthropies, 2018–2019 ($30,001, PI). "HeatReady Program, Mayors Challenge Champion Cities Phase." Co-Investigators: Chuck Redman, David Sailor, Ray Quay (Arizona State University).

Arizona State University Institute for Social Science Research Seed Grant, 2018–2019 ($7,000, PI). "Understanding Spatial Variability in Household Power Failure: A Case Study Comparison Across US Cities."

Vitalyst Health Foundation and Nature Conservancy Arizona, 2018–2019 ($47,964, co-PI). "Nature's Cooling Systems." Principal and co-Investigators: Nancy Grimm (Arizona State University).

National Science Foundation, 2018–2019 ($8,000, co-PI). "REU: Hazards SEES: Enhancing Emergency Preparedness for Critical Infrastructure Failure During Extreme Heat Events." Principal and co-Investigators: Matei Georgescu (Arizona State University).

City of Tempe and American Forests ReLeaf Program, 2018–2019 ($4,003, PI). "Rio Salado Art Park Thermal Comfort Assessment." Principal and co-Investigators: Ariane Middel (Arizona State University).

National Science Foundation Smart and Connected Communities Program, 2017–2019 ($100,000, co-PI). "Building capacity for smart and connected management of thermal extremes." Principal and co-Investigators: Paul Coseo and Ariane Middel (Arizona State University), Zoe Hamstead and Nicholas Rajkovich (University of Buffalo).

Arizona Department of Health Services, 2017–2021 ($100,000, PI). "Climate and Health Adaptation and Monitoring Program for Extreme Weather Events and Air Pollution." Co-Investigators: Nancy Selover and Nalini Chhetri (Arizona State University).

National Science Foundation, 2016–2019 ($450,000, co-PI), Infrastructure Management and Extreme Events. "A Simulation Platform to Enhance Infrastructure and Community Resilience to Extreme Heat Events." Principal and Co-Investigators: Mikhail Chester and Ariane Middel (Arizona State University), David Eisenman (University of California Los Angeles).

National Science Foundation, 2015–2019 ($12,000,000, Senior Personnel, ASU component $1,191,572), Sustainability Research Networks. "The Urban Water Innovation Network (U-WIN): Transitioning Toward Sustainable Urban Water Systems." Principal and Co-Investigators: Mazdak Arabi (Colorado State University), Matei Georgescu (Arizona State University).

National Science Foundation, 2015–2020 ($2,325,000, co-PI, ASU component $750,000), Interdisciplinary Research in Hazards and Disasters. "Hazards SEES: Enhancing Emergency Preparedness for Critical Infrastructure Failure during Extreme Heat Events." Principal and Co-Investigators: Brian Stone (Georgia Tech), Marie O'Neill (Univ. of Michigan), Matei Georgescu (Arizona State University).

National Science Foundation, 2018–2022 ($4,500,000, Senior Personnel). "LTER: CAP IV - Investigating urban ecology and sustainability through the lens of urban ecological infrastructure." Principal and Co-Investigators: Dan Childers, Nancy Grimm, Sharon Hall, Billie Turner, Abigail York.

Previously Awarded Research Grants

Pew Charitable Trusts, 2018–2019 ($150,000, co-PI, ASU component $50,000). Health Impact Project. Principal and Co-Investigators: Braden Kay (City of Tempe), Paul Coseo, Ariane Middel, Jennifer Vanos (Arizona State University).

Natural Hazards Center, 2017. ($3,000, co-PI), Quick Response Grant Program. "Understanding Vulnerability and Adaptive Capacity to Large-Scale Power Failure in the United States." Co-Investigators: Paul Chakalian, Elizabeth Kurtz (Arizona State University).

Arizona State University Institute for Social Science Research Seed Grant, 2017 ($8,000, PI). "Real-Time Indoor Temperature Monitoring to Prevent Heat Related Illness."

National Science Foundation, 2016–2018 ($2,253,984, Senior Personnel). Long-Term Ecological Research Program. "LTER CAP IV: "Design with nature." Principal and Co-Investigators: Daniel Childers, Billie L. Turner II, Abigail York, Nancy Grimm, Sharon Hall (Arizona State University), Paige Warren (Univ. of Massachusetts).

Arizona Board of Regents' Innovation Fund, 2016 –2017 ($650,000, Senior Personnel, ASU component $255,000). "Arizona Tri-University Transportation Research Center Pilot Research Portfolio." Principal Investigators: Michael Kuby (Arizona State University), Larry Head (University of Arizona), Edward Smaglik (Northern Arizona Univ.).

Public Health Institute, 2016–2017 ($29,997 to Maricopa County Department of Public Health, voluntary co-I), Climate Change and Public Health Learning Collaborative. "Assessing extreme heat risks and adaptation strategies among vulnerable populations in Maricopa County." Principal Investigators: Kate Goodin and Vjollca Berisha (Maricopa County Department of Public Health).

International Society of Biometeorology, 2015 ($15,000, co-I). "Enhancing the Teaching and Learning of Biometeorology in Higher Education." Co-Investigators: Jennifer Vanos (Texas Tech University), Cameron Lee (Kent State University), Jeremy Spencer (University of Akron), Rebekah Lucas (University of Birmingham), Michael Allen (Old Dominion University), Chris Fuhrmann (Mississippi State University).

Swedish Secretariat for Environmental Earth System Sciences, 2014 ($13,564, co-PI), Planning Grant for Sustainable Solutions. "Improving public health resilience against climate-induced risks: Health systems preparedness in Indian cities." Principal and Co-Investigators: Barbara Schumann, Rebekah Lucas (Umeå University), Papiya Mazumdar (TERI University), Sumit Mazumdar (Institute for Human Development, India).

Natural Hazards Center, 2014. ($1,967, co-PI), Quick Response Grant Program. “Investigating the Individual Experience in Extreme Heat.” Co-Investigators: Evan Kuras, Benjamin Ruddell (Arizona State University).

Arizona Department of Health Services, 2014–2016 ($125,000, co-PI). Subcontract to Arizona State University for development of Arizona Climate and Health Profile under auspices of Centers for Disease Control Building Resilience Against Climate Effects (BRACE) program. Co-Investigators: Matthew Roach (ADHS), Nalini Chettri (Arizona State University), Nancy Selover (Arizona State University), Wen-Ching Chuang (Arizona State University)

Central Arizona-Phoenix Long Term Ecological Research (CAP LTER), 2014 ($9,000, PI). Urban heat island and human health research, including support to host a Research Experiences for Undergraduates (REU) student.

International Society for Biometeorology, 2013-2014 ($14,717, co-PI). “Extending the application of climate and health research tools into distinct climate regimes in Russia, India, and New Zealand.” Co-Investigators: Jennifer Vanos (Texas Tech University), Simon Gosling (University of Nottingham).

Association for Institutional Research, 2013–2014 ($38,790, co-PI). “Data-driven support for students on the path to college: Development of a trajectory model to promote informed and prepared candidates.” Co-Investigators: David Knight, Aaron Williams (Pavilion Research, Inc.).

University of Virginia Center for International Studies, 2013 ($1,000, PI). “Building better models of climate-health links in developed and developing countries.”

Awarded Research Fellowships

Environmental Protection Agency, 2011–2014 ($118,758). “Environmental Determinants of Heat-Related Risk.” Science to Achieve Results (STAR) Graduate Research Fellowship, Grant No. FP-91733701-1.

Virginia Space Grant Consortium, 2011–2013 ($10,000). “A Remote Sensing Urban Heat Island Climatology for the Assessment of Heat-Related Mortality.” Graduate Research Fellowship.

National Science Foundation and Australian Academy of Science, 2012 ($10,400). “Fine-scale Spatial and Temporal Prediction of Heat-Related Mortality: A comparison of Australian and U.S. cities and implications for planning and intervention.” East-Asia Pacific Summer Research Institute for U.S Graduate Students.

National Science Foundation and Swedish Research Council (Vetenskasprådet), 2011 ($11,000). “Geographic Dimensions of High-Resolution Heat-Related Human Mortality.” Nordic Research Opportunity for NSF Graduate Research Fellows

National Science Foundation, 2008–2011 ($121,500). Graduate Research Fellowship Program.

Graduate Research Assistant on Grants

Asthma Alert System for the Shenandoah Valley. Davis, R.E. (Principal Investigator, sub-contract to James Madison University under ShenAir Program). $120,043 over 24 months from National Oceanic and Atmospheric Administration, awarded 2007.

Asthma Alert System for the Shenandoah Valley. Davis, R.E. (Principal Investigator, sub-contract to James Madison University under ShenAir Program). $74,452 over 24 months from National Oceanic and Atmospheric Administration, awarded 2006.

Preliminary Development of Air Quality and Asthma Projects – SHENAIR Program. Davis, R.E. (Principal Investigator, sub-contract to James Madison University under ShenAir Program).
$25,000 over 12 months from National Oceanic and Atmospheric Administration, awarded 2006.

Air Quality Climatology for Shenandoah Valley. Davis, R.E. (Principal Investigator, sub-contract to James Madison University under ShenAir Program). $100,505 over 24 months from National Oceanic and Atmospheric Administration, awarded 2006.

PRESENTATIONS

Invited Lectures and Talks

Addressing heat in our community (2020). Federal Reserve Bank/City of Phoenix Resilience Planning Workshop, Phoenix, AZ.

Tackling the urban heat challenge (2019). City of Tucson 11th Annual Urban Heat Island Workshop, Tucson, AZ.

On the front lines of urban warming (2018). New Mexico State University Climate Change Education Seminar Series, Las Cruces, NM.

Record-setting heat and heat-related deaths in Maricopa County in 2016: cause and effect? (2018). Central Arizona Chapter of the American Meteorological Society, Tempe, AZ.

Staying Cool in the City (2017). Invited as part of special symposia, International Association for Landscape Ecology US Chapter Annual Meeting, Baltimore, MD.

Heat and Health in a Warming Climate (2017). School of Nutrition and Health Promotion Seminar Series, Arizona State University, Phoenix, AZ.

Climate Change and Health: An Introduction (2016). Bridging Climate Change and Public Health Workshop, Maricopa County Department of Public Health, Phoenix, AZ.

Coping with Extreme Heat: Ten Strategies from the Front Lines (2016). National Integrated Heat-Health Information System Pilot Workshop, El Paso, TX.

Building Resilience Against Climate Effects in Arizona: A Health Perspective (2016). Arizona Association of Environmental Professionals, Scottsdale, AZ.

How are Cities Adapting to Extreme Heat? A Report From the Front Lines in Phoenix, Arizona (2016). University of Washington Center for Health and the Global Environment, Seattle, WA.

Heat in Urban Areas and Consequences for Health (2015). Introduction to Sustainability Honors Recitation (SOS 111), Arizona State University, Tempe, AZ.

Heat in the City: How Individuals Experience the Urban Climate of Phoenix, Arizona (2015). Wageningen University, Wageningen, Netherlands.

Social and Spatial Dimensions of Urban Heat (2015). Pufendorf Institute Heat Seminar, Lund University, Lund, Sweden.

Mitigating the Health Impacts of the Urban Heat Island (2015). Sonoran Institute Webinar, Adapting to Rising Temperature Series. http://www.sonoraninstitute.org/western-issues/local-leadership/planning-in-the-west-webinars/876-health-impacts-urban-heat-island.html

Weather, Climate and Health: Human Response and Adaptation to Increasing Temperatures (2015). Climate and Weather Risks and Hazards (PUAD 5322), Texas Tech University, Lubbock, TX.

Atmospheric Optics (2015). Introduction to Atmospheric Science (ATMO 1300), Texas Tech University, Lubbock, TX.

How Hot Are We? Individually Experienced Temperatures in Maricopa County (2014). Maricopa County Department of Public Health EpiPresents Series, Phoenix, AZ

Severe Thunderstorms and Tornadoes (2014). Introduction to Meteorology (GPH 212), Arizona State University, Tempe, AZ.

Climatological Perspsectives on Heat, Health, and Warning Systems (2014). Pufendorf Institute Heat Seminar, Lund University, Lund, Sweden.

Extreme Heat and Human Health in the Hottest Large City in the USA (2014). Lund University, Lund, Sweden.

Extreme Heat and Public Health in Maricopa County (2014). Outdoor School Lecture Series, Recreational Equipment, Inc. (REI), Tempe, AZ and Paradise Valley, AZ

Climate Adaptation through Design: Heat Mitigation and Mortality (2014). Invited Respondent at NSF Urban Climate Institute, Georgia Tech, Atlanta, GA

Climate Policy (2014). Introduction to Climatology (GPH 213), Arizona State University, Tempe, AZ

Planning for Cooler People (2014). Planning for Cooler Cities (PUP 591), Arizona State University, Tempe, AZ.

mGov Solutions to Climate-Health Challenges? (2014). Introduction to Policy Informatics (PAF 591), Arizona State University, Tempe, AZ.

Atmospheric Optics and the Mathematics of Rainbows (2014). Physical Meteorology (GPH 412), Arizona State University, Tempe, AZ.

Climate Change and Health (Two-lecture series, 2014). Introduction to Climatology (GPH 213), Arizona State University, Tempe, AZ.

Extreme Heat and Human Health: New Perspectives on a Persistent Public Health Challenge (2014). Department of Geography and Regional Studies, University of Miami, Coral Gables, FL.

Climate Change and Health and Direct Temperature Effects (2014). Introduction to Health and Medical Geography (GEG 221), University of Miami, Coral Gables, FL.

Research Informing Heat-Health Intervention Strategies in Urban Areas: Recent Findings and New Ideas (2013). Central Arizona Chapter of the American Meteorological Society, Tempe, AZ.

A Closer Look at Heat-Related Mortality in Urban Areas (2013). School of Geographical Sciences and Urban Planning Colloquium, Arizona State University, Tempe, AZ.

A Closer Examination of Heat-Related Mortality in Seven U.S. Cities (2013). Grand Rounds, British Columbia Centre for Disease Control, Vancouver, Canada.

The Climate and Weather of Virginia (2013), Environmental Science course on Virginia's Environments (EVSC 1040), Charlottesville, VA.

Geographic Dimensions of Heat-Related Mortality in Seven U.S. Cities (2013), University of Virginia Department of Environmental Sciences Symposium, Charlottesville, VA.

Climate Data Sources and Historical and Future Climate Trends at Demographic Surveillance Sites (2012), INDEPTH CLIMIMO Data Analysis and Writing Workshop, Accra, Ghana.

Coastal Storms (2011, 12). Environmental Sciences course in Coastal Processes (EVSC 4850), Charlottesville, VA.

Atmospheric Hazards (Four-lecture series, 2011), Environmental Sciences course in Natural Hazards (EVSC 3810), Charlottesville, VA.

Geographic Aspects of Heat-Related Mortality (2011), Environmental Medicine Seminar Series, Department of Environmental Medicine, Umeå University, Umeå, Sweden.

Heat-Health Risks in Philadelphia, Pennsylvania (2011). Climate Change and Health Seminar Series, Department of Epidemiology and Global Health, Umeå University, Umeå, Sweden.

Extreme Heat and Human Mortality (2011). Department of Environmental Sciences Atmospheric Seminar Series, Charlottesville, VA.

Nor'Easters, Climatology and Impacts (2011). University of Virginia School of Architecture Course in Coastal Planning Issues (PLAC 5880), Charlottesville, VA.

A Respiratory Alert System for the Shenandoah Valley (2011). Environmental Sciences Course in Biometeorology (EVSC 4340), Charlottesville, VA.

Predicting Severe Winter Coastal Storm Damage (2007, 08, 09, 10, 11, 12). Environmental Sciences Course in Beaches, Coasts, and Rivers (EVSC 2900).

Conference Presentations

2020 American Meteorological Society (AMS) Annual Meeting, Boston, MA, January: 1 talk presented, 4 talks co-authored, 1 poster presented

Multiple presentations cancelled at American Association of Geographers (AAG) Annual Meeting, Boston, CO, Denver, related to COVID-19 pandemic.

2019 American Meteorological Society (AMS) Annual Meeting, Phoenix, AZ, January: 2 talks presented, 10 talks co-authored, 1 poster co-authored

2018 International Conference on Urban Climate (ICUC), New York, NY, August: 1 talk presented, 3 talks co-authored

Natural Hazards Workshop Researchers Meeting, Broomfield, CO, July: 1 talk presented

American Meteorological Society (AMS) Annual Meeting, Austin, TX, January: 2 talks presented, 1 talk co-authored

2017 International Congress of Biometeorology, Durham, England, September: 2 talks presented

American Association of Geographers (AAG) Annual Meeting, Boston, MA, April: 1 talk presented

2016 American Public Health Association (APHA) Annual Meeting, Denver, CO, November: 1 talk presented, 1 talk co-authored

International Society for Environmental Epidemiology (ISEE) Annual Meeting, Rome, Italy, September: 1 poster presented

American Association of Geographers (AAG) Annual Meeting, San Francisco, CA, March: 1 talk presented

2015 American Geophysical Union (AGU) Annual Meeting, San Francisco, CA, December: 1 poster co-authored

International Conference on the Partnership for Progress on the Digital Divide, Scottsdale, AZ, November: 1 talk presented

International Society of Exposure Science (ISES) Annual Meeting, Henderson, NV, October: 1 talk presented

Our Common Future Under Climate Change International Scientific Conference, Paris, France, July: 1 talk co-authored

Policy-Making in the Big Data Era: Opportunities and Challenges, Cambridge, England, June: 1 talk co-authored

Association of Geographers Annual Meeting, Chicago, IL, April: 1 talk presented, 1 talk co-authored

Central Arizona-Phoenix Long Term Ecological Research Program All Scientist Meeting, Scottsdale, AZ, January: 1 poster presented and seven student mentee posters presented

American Meteorological Society (AMS) Annual Meeting, Phoenix, AZ, January: 1 talk presented, 6 talks co-authored

2014 Urbanization and Global Environmental Change Program 2nd Synthesis Conference, Taipei, Taiwan, November: 1 talk presented

International Congress of Biometeorology, Cleveland, OH, September: 2 talks presented.

International Society for Environmental Epidemiology Annual Meeting, Seattle, WA, August: 1 talk presented, 1 talk co-authored.
Association of American Geographers Annual Meeting, Tampa Bay, FL, April: 1 talk presented.

American Meteorological Society Annual Meeting, Atlanta, GA, February: 1 talk presented.

2013 International Society for Environmental Epidemiology Annual Meeting, Basel, Switzerland, August: 2 talks presented, 1 talk co-authored

Association of American Geographers Annual Meeting, Los Angeles, CA, April: 1 talk presented, 1 talk co-authored

American Meteorological Society Annual Meeting, Austin, TX, January: 1 talk presented

2012 American Public Health Association Annual Meeting, San Francisco, CA, October: 1 poster presented

International Society for Environmental Epidemiology Annual Meeting, Columbia, SC, August: 1 talk presented

International Congress on Circumpolar Health, Fairbanks, AK, August: 1 talk presented

Virginia Space Grant Consortium Annual Student Research Conference, Williamsburg, VA, April: 1 talk presented

Association of American Geographers Annual Meeting, New York, NY, February: 1 talk presented

2011 International Congress of Biometeorology, Auckland, New Zealand, December: 1 talk presented

Association of American Geographers Annual Meeting, Seattle, WA, April: 1 talk presented

2010 Association of American Geographers Annual Meeting, Washington, DC, April: 1 talk presented

2009 Association of American Geographers Annual Meeting, Las Vegas, NV, April: 1 talk presented, 1 talk co-authored

2008 International Congress of Biometeorology, Tokyo, Japan, September: 1 talk presented, 1 talk co-authored

Association of American Geographers Annual Meeting, Boston, MA, April: 1 talk presented, 2 talks co-authored

2007 Society for Risk Analysis Annual Meeting, San Antonio, TX: 1 poster presented

TEACHING AND STUDENT SUPERVISION

Teaching Experience

Assistant and Associate Professor, Arizona State University

Statistics for Geography and Planning (GIS 270, formerly GIS 470)
Undergraduate level; Taught 4 times (2018–2020)

Geographic Research Methods (GCU 496)
Upper undergraduate level; Taught 4 times (2017, 2018, 2019, 2020)

Climate Change and Health (GPH 494/591)
Graduate and upper-level undergraduate seminar course; Taught 2 times (2016, 2017)

Physical Meteorology (GPH 412);
Upper undergraduate level; Taught 1 time (2016)

Climate and Weather (GPH 213);
Introductory undergraduate level; Taught 1 time (2020)

Research Faculty, Arizona State University

Policy Informatics for Climate Change and Health (GPH 494/PAF 494)
Upper undergraduate level; Taught 1 time (2015)

Guest Co-Instructor, Umeå University, Sweden

Climate Change and Health Research Methods
Graduate/postdoc, research level; Taught 3 times (2014–2016)

Instructor, University of Virginia, USA

Earth's Weather and Climate (EVSC 1300)
Undergraduate, introductory level; Taught 2 times (2010, 2011)

Beaches, Coasts, and Rivers (EVSC 2900)

Undergraduate, introductory level; Taught 1 time (2011)

Graduate Teaching Assistant, University of Virginia, USA

Earth's Weather and Climate (EVSC 1300)
Undergraduate, introductory level; TA 2 times (2011, 2012)

Beaches, Coasts, and Rivers (EVSC 2900)
Undergraduate, introductory level; TA 5 times (2006 –2010)

Atmosphere and Weather (EVSC 3500)
Undergraduate core course for majors; TA 4 times (2006–2008, 2013)

Atmospheric Dynamics (EVSC 5410)
Graduate level; TA 1 time (2007)

Teaching Interests and Competencies

Physical Geography, Climatology, Synoptic Climatology, Climatological Statistics, Meteorology, Climate Change, Natural Hazards, Environmental Health, Coasts and Rivers, Biometeorology, Climate and Health, Introductory and Multivariate Statistics, Research Methods, Climate Change Reading Group

Student Supervision

Current graduate advisees (+=advanced to doctoral candidacy)*:*
Lance Watkins, Ph.D. 2021, Geography, Arizona State University (chair)
+Mary Wright, Ph.D. 2021, Geography, Arizona State University (chair)
+Elizabeth Kurtz, Ph.D. 2021, Global Health, Arizona State University (co-chair)
+Peter Crank, Ph.D., 2020, Geography, Arizona State University (committee member)
Joshua Raymond, Ph.D., 2020, Anthropology, Arizona State University (committee member)
Philip Gilbertson, Ph.D. 2021, Geography, Arizona State University (committee member)
Katrina Gerster, M.A., 2021, Geography, Arizona State University (committee member)

Completed graduate these and dissertation (as chair or co-chair):
Paul Chakalian, Ph.D. 2019, Environmental Social Science, Arizona State University (co-chair)
Adam Andresen, M.A., 2020, Sustainability, Arizona State University (chair)

Completed graduate theses and dissertations (as committee member):
Riley Andrade, Ph.D. 2020, Geography, Arizona State University
Haven Guyer, M.A., 2020, Geography, Arizona State University
Yuliya Dzyuban, Ph.D., 2019, Sustainability, Arizona State University
Melissa Guardaro, Ph.D., 2019, Sustainability, Arizona State University
Edward Helderop, Ph.D., 2019, Geography, Arizona State University
Joshua Raymond, M.A, 2019, Anthropology, Arizona State University
Carter Wang, Ph.D. 2018, Geography, Arizona State University
Joshua Uebelherr, Ph.D. 2016, Public Administration, Arizona State University
Daniel Vecellio, M.S. 2015, Atmospheric Science, Texas Tech University

Completed undergraduate theses (as chair or committee member):
Alexis Hermansen, B.S., 2019, Barrett Honors College, Arizona State University
Katrina Gerster, B.S., 2018, Barrett Honors College, Arizona State University
Mahnoor Mukarram, B.S. 2017, Barrett Honors College, Arizona State University
Maggie Lapoint, B.A., 2015, Barrett Honors College, Arizona State University
Mary Munoz-Encinas, B.A., 2015, Sustainability, Arizona State University

Completed visiting researchers supervised:
Evan Kuras, B.S. 2013–2015 (through CAP LTER program)
Ales Urban, visiting postdoctoral researcher (Czech Academy of Sciences), 2017

Completed undergraduate independent study projects for credit (as primary advisor):
Arizona State University: Simone Diaz, 2019, Innovation in Society; Lauren Wilson, 2017–2019, Global Health; Harrison Ambrose, 2017–2018, Sustainability; Mario Chavez, B.S. 2016 Geography; Summer Betzel, 2014, Geography; Christopher Dastan, 2014, Geography; Jason Eneboe, 2014–2015, Geography; Mary Munoz-Encinas, 2014, Sustainability; Miranda Kaml, 2014, Geography; Lauren Rohan-Kohl, 2014, Geography; Mara Sevig, 2014, Geography; Marianna Singh, 2014, Geography

University of Virginia Environmental Sciences: Rachael Diniega, 2012–2014 (Distinguished Major); Anjali Patel, 2012-2013; Holly Rich, 2012–2013; Sydney Delmar, 2012–2013; Matthew Brumback, 2013;
Lyndsey Dowell, 2012; Michael Saha, 2011–2012; Carleigh Wegner, 2011–2012; Lindsay Veazey, 2011; Matthew Liesten, 2011; Andrew Revelle, 2011; Courtney Good, 2011; Jennifer Sealey, 2011

Additional Supervisory and Mentoring Experience

Research staff/assistants supervised:
Mario Chavez, microclimate management intern, Arizona State University, 2016–2017
Hana Putnam, climate and health staff research assistant, Arizona State University, 2016–2018

Founding Science Advisor of NASA DEVELOP program node at Maricopa County Department of Public Health and Arizona State University, 2015–present (30 completed program participants to date).

Summer Undergraduate Research Program Mentor, NSF Urban Water Innovation Network, 2016–2017, 2019

School of Geographical Sciences and Urban Planning High School Internship Program Mentor, 2017

SERVICE

National and International

Invited Contributing Author, Intergovernmental Panel on Climate Change Sixth Assessment Report, 2019

CONVERGE Data Publication Advisory Committee, NSF/NHERI, 2019

External Dissertation Reviewer, Monash University Dept. of Epidemiology and Preventative Medicine, June 2019

Contributing Author, Red Cross Red Crescent Heatwave Guide for Cities, 2019

Board Member, American Meteorological Society Conference on Environment and Health, appointed January 2019

Invited Panelist, Academic/Research Careers, American Meteorological Society Student Conference, January 2019

Session Organizer and Chair, Adapting to Climate Challenges: Reports from the American Southwest, American Meteorological Society Annual Meeting, January 2019

Invited Speaker and Participant, First Global Forum on Heat and Health (organized by World Health Organization and World Meteorological Organization), Hong Kong, China, December 2018

Invited Participant, Climate and Health Inter-Sectoral Impacts Model Intercomparison Project (ISIMIP) Workshop, Barcelona, Spain, November 2018

Invited Guest Instructor, Bucharest Urban Climate Summer School, Bucharest, Romania, 2017–2018

Session Chair, International Conference on Urban Climate, New York, NY, August 2018.

Invited Panelist, Natural Hazards Workshop, Broomfield, CO, July 2018.

Chapter Reviewer, California's Fourth Climate Change Assessment, 2018.

Jacques May Thesis Prize Reviewer, American Association of Geographers, 2018, 2020.

Participant, National Socio-Environmental Synthesis Center Workshop on Social Media Use in Disaster Response, Annapolis, 2015 & 2017.

Invited Subject Matter Expert, U.S. Environmental Protection Agency. 2016 Summer Workshop on Mapping the Vulnerability of Human Health to Climate Change in the United States. Washington, DC.

Invited Subject Matter Expert, National Integrated Heat-Health Information System Pilot Workshop: Heat & Health in Rio Grande Cities. El Paso, TX, July 2016.

Organizer and Chair, Geographical Methods for Climate Adaptation Session, March 2016. American Association of Geographers Annual Meeting, San Francisco, CA.

Chair, Urban Temperatures and Shade Provision Session, March 2016. American Association of Geographers Annual Meeting, San Francisco, CA.

Participant, Workshop on Preparing for High Consequence, Low Probability Events: Heat, Water & Energy in the Southwest. University of Arizona Institute of the Environment, Tucson, September 2015.
Participant, NOAA/CDC Workshop on Development of a National Heat Health Integrated Information System, Chicago, July 2015.

Doctoral Thesis Midterm Examination Committee, May 2015. Umeå University School of Public Health, Epidemiology and Global Health Department Umeå, Sweden.

Organizer and Chair, Weather, Climate, and Health I–IV, April 2015. Association of American Geographers Annual Meeting, Chicago, IL.

Abstract Committee, International Society for Environmental Epidemiology Annual Meeting, Sao Paolo, Brazil, August 2015

Review Panelist, National Science Foundation Graduate Research Fellowship Program, 2015

Student Paper Competition Judge, Climate Specialty Group, American Association of Geographers, 2014–2017

Proposal Reviewer, National Science Foundation Decision, Risk, and Management Sciences Program, 2014

Director, Climate Specialty Group, American Association of Geographers, 2014–2015 (elected)

Organizer and Chair, Weather, Climate, and Health I–V, April 2014. Association of American Geographers Annual Meeting, Tampa, FL.

Abstract Committee and Invited Session Chair, International Society for Environmental Epidemiology Annual Meeting, Seattle, August 2014

Expert Collaborator, Global Burden of Diseases, Injuries, and Risk Factor Study 2013 (GBD 2013). Institute for Health Metrics and Evaluation.

Scientific Program Committee and Invited Session Chair. International Society for Environmental Epidemiology Annual Meeting, Basil, Switzerland, August 2013.

Visiting Scholar, British Columbia Center for Disease Control, Environmental Health Group, May 2013.
Organizer and Chair, Weather, Climate, and Health I,II, III, 2013. Association of American Geographers Annual Meeting, Los Angeles, California, April 2013.

Invited Facilitator, INDEPTH Climate, Migration, and Mortality (CLIMIMO) Data Analysis and Writing Workshop, Accra, Ghana, May 2012.

Organizer and Chair, Temperature and Human Health I and II. Association of American Geographers Annual Meeting, New York, New York, February 2012.

Chapter Reviewer, Natural Hazards (4th Edition) by Hyndman and Hyndman, 2012.

Project Leader, International Society of Biometeorology Students and Young Professionals Group. Synoptic Classification and Health Applications for Developing Countries. 2011–present.

Reviewer of manuscripts for 47 peer-reviewed journals:
American Journal of Public Health (2017)
Annals of the American Association of Geographers (2016)
Applied Geography (2020)
Atmospheric Environment (2010)
Biomedical and Environmental Sciences (2016)
BMC Public Health (2014, 2015)
Building and Environment (2019)
Bulletin of the American Meteorological Society (2014)
Climate Research (2011, 2014, 2015)
Climate Risk Management (2016)
Climatic Change (2014, 2016, 2018)
Computers, Environment, and Urban Systems (2018)
Earth's Future (2018)
EcoHealth (2014)
Environmental Health (2014×2, 2015, 2016, 2018×2, 2019)
Environmental Health Perspectives (2013, 2014×3, 2015×2, 2016×5, 2017×2, 2018×3, 2019, 2020×3)
Environment International (2018)
Environmental Pollution (2013)
Environmental Science & Policy (2016)
Environmental Research (2014, 2015×2, 2016×2, 2018)
Environmental Research Letters (2010, 2017, 2019, 2020×2)
Global Health Action (2012, 2013×3, 2016)
International Journal of Biometeorology (2011, 2013×2, 2014×2, 2015×2, 2016×2, 2017×4, 2018, 2019, 2020)
International Journal of Climatology (2011, 2019×2)
International Journal of Disaster Risk Reduction (2016)
International Journal of Environmental Research and Public Health (2013, 2014×2, 2015, 2016)
Journal of Applied Meteorology and Climatology (2017, 2018×2, 2019)
Journal of Biometrics and Biostatistics (2012)
Journal of Epidemiology and Community Health (2013)
Meteorology and Atmospheric Physics (2012)
Moravian Geographical Reports (2015)
Natural Hazards (2014)
Natural Hazards Review (2019)
Nature Climate Change (2017)
Physical Geography (2016)
PLoS One (2015, 2017, 2018)
Polish Journal of Environmental Studies (2011)

Population Research and Policy Review (2014)
Proceedings of the National Academy of Sciences (2016, 2018, 2019)
Remote Sensing (2014)
Risk Analysis (2017, 2019)
Science of the Total Environment (2015, 2016×3, 2017×3, 2018, 2019)
Scientific Reports (2015)
The Professional Geographer (2017)
Urban Climate (2019, 2020)
Weather and Climate Extremes (2013)
Weather, Climate and Society (2015, 2018, 2020)

Scientific journal editorial positions:
International Journal of Biometeorology, Field Editor for Weather, Climate, and Society, 2020–
Environmental Health Perspectives editorial board, 2017-
International Journal of Environmental Research and Public Health editorial board, 2016–2018

Member: Association of American Geographers (Climate Specialty Group, Health and Medical Geography Specialty Group), American Meteorological Society, International Society for Environmental Epidemiology, International Society of Biometeorology, International Association for Urban Climate.

Arizona State University

COVID-19 Care Committee, School of Geographical Sciences and Urban Planning, 2020–

Graduate Committee, School of Geographical Sciences and Urban Planning, 2020–

Director Search Committee, School of Geographical Sciences and Urban Planning, 2020–

Remote Sensing and Spatial Ecology Search Committee Member, Arizona State University, Fall 2019

Site Representative to Annual LTER Science Council Meeting, May 2019

Ad Hoc Limited Submissions Proposal Reviewer, College of Liberal Arts and Sciences, April 2019

Invited Panelist, New Assistant Professor teaching workshop, October 2018

Colloquium Committee Chair, School of Geographical Sciences and Urban Planning, 2017-2019

School of Geographical Sciences and Urban Planning Awards Reception Emcee, 2017–2019

Leadership Team Member, Urban Climate Research Center, 2017–present

GIS Faculty Search Committee Member, Arizona State University, Spring 2017

Dean's Advisory Committee on Social Science and Health Research Initiatives, College of Liberal Arts and Sciences, Arizona State University, 2016

Environmental Planning Faculty Search Committee Member, Arizona State University, Spring 2016

Invited Speaker at National Sustainability Teachers' Workshop, Arizona State University, July 2015

Invited Speaker at Teacher Workshop, Decision Center for a Desert City, Arizona State University, July 2015

Interdisciplinary Research Team Co-Chair, Central Arizona-Phoenix Long Term Ecological Research (CAP LTER) Program, May 2015–

Poster Judge, CAP LTER Annual All-Scientists Meeting, Scottsdale AZ, 2015–2017

Judge, ASU Changemaker Challenge, January 2015

ASU Open Door Downtown Phoenix Day, Policy Informatics Area Lead, 2014

Global Institute of Sustainability Urban Heat Island Symposia Participant, 2013

College of Public Programs Service Day Participant, 2013

Cities of Phoenix and Tempe, Maricopa County, and State of Arizona

Urban Heat and Tree Shade Subcommittee, City of Phoenix, appointed 2020

Urban Heat and Air Pollution Economic Assessment Advisory Committee Member for Nature Conservancy of Arizona, 2020–2021

Expert Testimony, Arizona Corporation Commission Workshop on Utility Disconnection Rules, 2020

Transit Shelter Design Steering Committee, City of Tempe, 2019

First Tee of Phoenix Certified Volunteer Assistant Coach, 2019

Co-Lead Facilitator, Arizona Statewide Extreme Heat Planning Workshop, 2017–2019

Maricopa County Climate Change and Health Education Action Team Co-Lead, appointed 2018

Maricopa County Community Assessment for Public Health Emergency Response Volunteer, 2015

Moderator/Judge, Arizona State Geography Bee, 2014–2015

Contributor to Arizona Department of Health Services Heat Emergency Response Plan, 2014

Maricopa County Department of Public Health Heat Surveillance Working Group, 2013–present

University, City of Charlottesville, and Commonwealth of Virginia

Albemarle County Community Emergency Response Team, 2012–2013

Appointed Member of Advisory Committee, Rivanna Solid Waste Authority, 2011–2013

Graduate School of Arts and Sciences Student Council, 2007–2013 (Research Chair, 2007–2008)

Guest 4th/5th Grade Science Speaker, Cale Elementary School, 2011, 2013

Albemarle County Search and Rescue call-out qualified, 2012

University Student Council, 2008–2012
- Academic Affairs Committee Chair, 2008–2009
- Scholarship Committee, 2009–2011

Judge for Environmental Sciences Research Symposium, 2010–2011

University Calendar Committee, 2009–2010

University Master Planning Council, 2008–2009

Instructor for Saturday Enrichment Program Grade 4/5 Science Class, 2008

Central Little League Baseball Manager, 2007–2009

Special Olympics Golf Instructor, Birdwood Golf Course, 2006–2013

Public Media (last 3 years)

British Medical Journal, November 2020. “Protecting health in dry cities: from evidence to action.” https://www.bmj.com/content/371/bmj.m4115

Washington Post, September 2020. “Hottest season on record: Merciless Phoenix heat blasts by all-time monthly, summer milestones.” https://www.washingtonpost.com/weather/2020/09/01/phoenix-hottest-summer/

Arizona Republic, August 2020. “In Phoenix, rising temperatures day and night kill more people each year.” https://www.azcentral.com/in-depth/news/2020/08/26/heat-killing-more-people-cities-sizzle-hotter-temperatures/4553439002/

KJZZ Radio, August 2020. “Arizona Heat Deaths Spike Amid Record Temperatures, Pandemic Fears” https://kjzz.org/content/1612172/arizona-heat-deaths-spike-amid-record-temperatures-pandemic-fears

Arizona Republic, August 2020. “In Phoenix's hottest neighborhoods, a ground-level search for ideas to tame extreme heat.” https://www.azcentral.com/story/news/local/arizona-environment/2020/08/31/community-based-project-brings-answers-those-battling-intense-heat/5640141002/

New York Times, August 2020. “Lights Dim and Worries Mount as a Heat Wave Roasts California.” https://www.nytimes.com/2020/08/15/us/california-heat-wave-blackout.html

Arizona Republic, July 2020. “Phoenix is tying records for highest low temperatures. Here's why” https://www.azcentral.com/story/news/local/arizona-environment/2020/07/21/phoenix-night-temps-get-hotter-because-heat-island-climate-change/5472797002/

Washington Post, July 2020. “How America’s hottest city will survive climate change.” https://www.washingtonpost.com/graphics/2020/climate-solutions/phoenix-climate-change-heat/

National Geographic, June 2020. “As summer arrives, how will the most vulnerable escape deadly heat and COVID-19?” https://www.nationalgeographic.com/science/2020/06/summer-arrives-how-will-most-vulnerable-escape-deadly-heat-cvd/

Center for Public Integrity, June 2020. “Climate Casualties Rising With Temperatures.” https://publicintegrity.org/environment/hidden-epidemics/heat-deaths-climate-change-arizona/

KJZZ Radio, May 2020. “2019 Sets Record For Heat-Related Deaths In Maricopa County.” https://kjzz.org/content/1566931/2019-sets-record-heat-related-deaths-maricopa-county

Op-Ed in Arizona Republic, May 2020. “Self-isolating from COVID-19 in a mobile home? That could be deadly in Arizona” https://www.azcentral.com/story/opinion/op-ed/2020/05/03/arizona-heat-could-kill-self-isolating-coronavirus-mobile-homes/3043693001/

KJZZ Radio, February 2020. “Experts: Rising Heat-Related Deaths A Symptom Of Other Social Problems.” https://kjzz.org/content/1430606/experts-rising-heat-related-deaths-symptom-other-social-problems

Phoenix New Times, February 2020. “Arizona Regulators Don’t Know What To Do About Summer Shutoffs.” https://www.phoenixnewtimes.com/news/arizona-summer-heat-deaths-utility-shutoff-corporation-commission-11434353

ABC15 News, January 2020. “Health and weather experts weigh in on Arizona utility disconnection rules.” https://www.abc15.com/news/state/health-and-weather-experts-weigh-in-on-arizona-utility-disconnection-rules?

Arizona Public Media, January 2020. “Heat deaths continue to rise, as federal disaster relief continues to lag.” https://www.azpm.org/p/home-articles-news/2020/1/15/164406-heat-deaths-continue-to-rise-as-federal-disaster-relief-continues-to-lag/

Animal Politico (Mexican print media), November 2019. “A warmer future will not necessarily cause more heat deaths.” Authored editorial. https://www.animalpolitico.com/blog-invitado/un-futuro-mas-caluroso-no-necesariamente-ocasionara-mas-muertes-por-calor/

KJZZ Radio, October 2019. “Arizona Corporation Commissioners Debate Shutoff Temperature Threshold, Some Are Skeptical.” https://kjzz.org/content/1280001/arizona-corporation-commissioners-debate-shutoff-temperature-threshold-some-are

Phoenix New Times, October 2019. “How Hot is Too Hot? AZ Regulators Ignore Science in Weighing Shutoff Protections.” https://www.phoenixnewtimes.com/news/az-regulators-ignore-science-in-weighing-shutoff-protections-11377138

Rolling Stone magazine, August 2019. “Can We Survive Extreme Heat”? https://www.rollingstone.com/culture/culture-features/climate-crisis-goodell-survive-extreme-heat-875198/

New York Times, August 2019. “Heat deaths jump in Southwest United States, puzzling officials.” https://www.nytimes.com/2019/08/26/climate/heat-deaths-southwest.html

NPR Science Friday, June 2019. “Hot enough for you? Cooling the worsening urban heat island.” https://www.sciencefriday.com/segments/hot-enough-for-you-cooling-the-worsening-urban-heat-island/

Sage Magazine, spring 2019. “Exposed to the Elements.” http://www.sagemagazine.org/wp-content/uploads/2019/05/200307_SAGE2019_Final_Spreads_Opt.pdf

Shareable, March 2019. “Protecting the most vulnerable: How communities can advocate for the homeless during extreme weather.” https://www.shareable.net/protecting-the-most-vulnerable-how-communities-can-advocate-for-the-homeless-during-extreme-weather/

Sierra, the national magazine of the Sierra Club, January 2019. “Can Phoenix Remain Habitable?” https://www.sierraclub.org/sierra/2019-1-january-february/feature/can-phoenix-remain-habitable

KQED Science, October 2018. “Extreme Heat Killed 14 People in the Bay Area Last Year: 11 Takeaways From Our Investigation.” https://www.kqed.org/science/1932903/extreme-heat-killed-14-people-in-the-bay-area-last-year-10-takeaways-from-our-investigation

KQED Science, October 2018. “Investigation Finds Home Can Be the Most Dangerous Place in a Heat Wave.” https://www.kqed.org/science/1933237/investigation-finds-home-can-be-the-most-dangerous-place-in-a-heat-wave

Vice News Tonight on HBO, September 2018. “Phoenix is trying to fight deadly heat and we should all take note.” https://news.vice.com/en_us/article/8xbzzg/phoenix-is-trying-to-fight-deadly-heat-and-we-should-all-take-note

Washington Post August 2018. “As temperatures keep trending up, heat belt cities maneuver to stay livable.” https://www.washingtonpost.com/national/as-temperatures-keep-trending-up-heat-belt-cities-maneuver-to-stay-livable/2018/08/29/3c7ef2f2-ab15-11e8-a8d7-0f63ab8b1370_story.html?noredirect=on&utm_term=.e152794e790e

KBYU Radio, Top of Mind with Julie Rose (NPR), July 2018. "Cooling down Phoenix." http://www.byuradio.org/episode/1d4bb1ca-8387-44a2-b399-8a77168a8ace/top-of-mind-with-julie-rose-war-on-poverty-coping-with-suicide-happy-birthday-harry

Climate Central and Arizona Daily Start, July 2018. "Air Conditioning Costs Rise With Arizona's Heat." https://www.climatecentral.org/news/air-conditioning-costs-rise-with-arizonas-heat-21881

WAMU Radio, 1A (NPR), July 2018. "Heat waves: A global sweat." https://the1a.org/shows/2018-07-25/hot-in-here-heat-waves

Cronkite News/Arizona PBS, July 2018. "Killer heat: Phoenix seeking solutions, hopes to become leader in climate mitigation." https://cronkitenews.azpbs.org/2018/07/16/killer-heat-phoenix-seeking-solutions-hopes-to-become-leader-in-climate-mitigation/

NPR Morning Edition, July 2018. "Phoenix tries to reverse its 'silent storm' of heat deaths." https://www.npr.org/2018/07/09/624643780/phoenix-tries-to-reverse-its-silent-storm-of-heat-deaths

NPR All Things Considered, July 2018. "How Phoenix is trying to keep people cool as temperatures rise." https://www.npr.org/2018/07/09/627417463/how-phoenix-is-trying-to-keep-people-cool-as-temperatures-rise

Weather warning: These Philadelphia neighborhoods get the hottest in a heat wave. Philadelphia Inquirer, June 2018. http://www.philly.com/philly/health/weather-philadelphia-temperature-summer-neighborhood-map-20180629.html

Making a community heat-ready, ASU News, June 2018. https://asunow.asu.edu/20180629-making-community-heat-ready-asu-researchers-head-yuma-educate-and-survey-community

Arizona Republic, May 2018. "Heat deaths in Phoenix reached a record high in 2018." https://www.azcentral.com/story/news/local/phoenix/2019/05/07/heat-deaths-phoenix-arizona-reached-record-high-2018/2539975002/

KTAR Radio, March 2018. "ASU, Phoenix team up in competition to fight climate change." http://ktar.com/story/2007956/asu-phoenix-team-competition-fight-climate-change/

Arizona Republic, March 2018. "Phoenix tests 'HeatReady' program to prepare for extreme heat." https://www.azcentral.com/story/news/local/arizona-environment/2018/03/06/phoenix-tests-heatready-city-program-prepare-extreme-heat-greg-stanton/369171002/

Media Appearances (prior to 2018)

Arizona Horizon TV, Arizona Republic (×2), ASU News (×5), Brisbane Times, Channel 7 News Brisbane, City South News (Brisbane), Cronkite News, Environmental Health Perspectives News, Environmental Research Web, Forbes Magazine, Fox10 Phoenix, Global Science Report, High Country News, Inside Science, KJZZ Radio, Los Angeles Times, NBC12 News Phoenix, Phoenix Business Journal, Power Ranch Living Magazine, QUT News Radio, Satellite Newspaper (Brisbane), Vice News, Wired Magazine

RECOGNITION

Awards and Honors

Science Defender, Union of Concerned Scientists, 2019 (with Vjollca Berisha and Stacey Champion)

Geography Professor of the Year, Arizona State University, 2017

Dissertation Medal in Applied Climatology, Association of American State Climatologists, 2015

Tromp Scientific Award, International Society of Biometeorology, 2014

Figure of the Year co-author, American Journal of Epidemiology and Society for Epidemiological Research, 2014

Jacques May Thesis Prize, Health and Medical Geography Specialty Group of the American Association of Geographers, 2014

Maury Environmental Sciences Prize, University of Virginia, 2013

All-University Graduate Teaching Award (Frank Finger Fellowship), University of Virginia, 2013

Graduate Student Research Publication Award, University of Virginia Environmental Sciences, 2013

Fred Holmsley Moore Graduate Teaching Award, University of Virginia Environmental Sciences, 2013

The Raven Award, University of Virginia Raven Society, 2013
Recognizing excellence in service and contributions to the University of Virginia

National Academies Keck Futures Initiative Invited Participant, 2010 and 2012

Environmental Protection Agency Science to Achieve Results (STAR) Graduate Research Fellowship, 2011

National Science Foundation Graduate Research Fellowship, 2008

Other Recognition of Note

Finalist, AAAS Early Career Award for Public Engagement with Science, 2019

Nominee for Maricopa County Climate and Health Champion, 2018, 2019

Nominee for Outstanding Faculty Mentor Award, Graduate College, Arizona State University, 2017, 2018, 2019, 2020

Nominee for Zebulon Pearce Teaching Award, College of Liberal Arts and Sciences, Arizona State University, 2017, 2018, 2019 (Finalist)

First Place, UVa Social Entrepreneurship Cup and Honorable Mention, Institution-wide Finals, 2012.
Project title: "TestConnect," a digital examination feedback system for academic programs.

National Science Foundation & Australian Academy of Science, 2012
Invited Participant to East Asia-Pacific Summer Research Institute

National Science Foundation & Swedish Research Council, 2011
Invited Participant to Nordic Research Collaboration

Virginia Space Grant Consortium, Graduate Research Fellowship, 2011

Second Place, UVa Arts & Sciences Entrepreneurship Cup, 2011.
Project title: "Tassel," a decision-support tool for high school students pursuing college education.

Association of American Geographers Dissertation Research Grant, 2011

Michael Garstang Research Award, University of Virginia Environmental Sciences, 2010

Joseph K. Roberts Research Presentation Award, University of Virginia Environmental Sciences, 2009

University of Virginia Raven Society, 2009

Second Place Student Paper, Association of American Geographers Climate Specialty Group, 2009 and 2012

Physical Science Presentation Award, Robert J. Huskey Research Exhibition, 2009 (1st) and 2010 (3rd)

Tromp Foundation Young Scholar Travel Award, International Society of Biometeorology, 2008 and 2011

The Graduate Award in Atmosphere, University of Virginia Environmental Sciences, 2008

Robert J. Huskey Travel Grant, University of Virginia Graduate School of Arts & Sciences, 2007, 2011, 2012

Pi Epsilon, National Environmental Sciences Honor Society (founding member of UVa chapter), 2005