

Christopher K. Uejio

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Education

Ph.D. Nelson Institute for Environmental Studies, University of Wisconsin-Madison	2011
M.A. Geography, University of Arizona	2006
B.S. Atmospheric Science, B.A. Geography with Honors, UCLA	2004

Research Interests

Environmental Health	Health/Medical Geography	Infectious Diseases
Climate Variability & Change	Resilience & Vulnerability	Adaptation
Indoor Environments	Extreme Heat	Personal Exposure
Mosquitoborne Diseases	Water Quality	Health Disparities
Stakeholder Driven Science	Decision Support Systems	Health Interventions

Experience

Associate Professor, Department of Geography and Program in Public Health, Dept. of Behavioral Sciences and Social Medicine (College of Medicine) Florida State University	2018-present
Assistant Professor, Department of Geography and Program in Public Health, Florida State University	2012-2018
Postdoctoral Research Fellow, Centers for Disease Control and Prevention, (National Center for Environmental Health), National Center for Atmospheric Research (Research Applications Laboratory)	2010-2012
Graduate Research Assistant, Health Risks from Climate Variability and Change in the Upper Midwest, EPA Science to Achieve Results, University of Wisconsin-Madison	2006-2010
Graduate Research Assistant, Climate Assessment for the Southwest Project, University of Arizona	2004-2006
Researcher, Biosphere-Atmosphere Laboratory, UCLA	2002-2004

Publications

†Student directly supervised by Dr. Uejio

1. J. Alarcon; L. Ward; K. Pan; E. Gonsoroski; C.K. Uejio; L. Beitsch; M.Y. Lichtveld; E.W. Harville; Samendra Sherchan. HABs *K. brevis* and *P. nitzschia* Pre and Post Hurricane Michael. *Journal of Water and Health* (Under Review)
2. Ahn, Y. †, C.K. Uejio, S. Wong, E. Powell, T. Holmes. Spatial Disparities in Air Conditioning Ownership in Florida, United States. *Journal of Maps* (Under Review)
3. Gonsoroski, E. †, Y. Ahn †, L. Beitsch, N. Countess †, E.W. Harville, M.Y. Lichtveld, K. Pan, S.P. Sherchan, C.K. Uejio. Classifying Building Roof Damage using High Resolution Imagery for Disaster Recovery. *Photogrammetric Engineering and Remote Sensing* (In Press)
4. Joseph, H.A., E. Mallen, M. McLaughlin, E. Grossman, T. Holmes, A. Locklear; E. Powell, L. Thie, C.K. Uejio, K. Vacca, C..Williams, T. Bishop, C. Jeffers; H. Siegel, C. Austin. (2023) Evaluating public health strategies for climate adaptation: Challenges and opportunities from the Climate Ready States and Cities Initiative. *PLOS Climate*.
5. Harville, EW, K Pan, L Beitsch, CK Uejio, M Lichtveld, C Timuta. (2023) Hurricane Michael and Adverse Social and Mental Health Risk Factors. *Maternal and Child Health Journal*.
6. Pan, K., E. Gonsoroski †, C.K. Uejio, L. Beitsch, S.P. Sherchan, M.Y. Lichtveld, E.W. Harville. (2022) Remotely sensed measures of Hurricane Michael damage and adverse birth outcomes in the Florida panhandle. *Environmental Health*.
7. Ahn, Y. †, C.K. Uejio (2022). Modeling air conditioning ownership and availability. *Urban Climate*, 46, 101322.
8. Melix, B.L. †, W. Butler, T. Holmes, A. Jackson, C.K. Uejio. (2022) Locating Neighborhood Displacement Risks to Climate Gentrification Pressures in Three Coastal Counties in Florida. *Professional Geographer* <https://doi.org/10.1080/00330124.2022.2087695>
9. Bandzuh, J.T. †, J.K.L. Gunn, S. Pandarangga, N.R.J Kalunga, L. Rambu, K.R. Cavanaugh, C.K. Uejio, M. Hayden, K. Ernst. (2022) Knowledge, attitudes, and practices related to mosquito control and malaria prevention in East Sumba, Indonesia. *PLoS Global Public Health*.
10. Nowell, H.K., C.D. Holmes, C. Wirks, M. Val Martin, A. van Donkelaar, C.K. Uejio. (2022) Impacts of sugarcane fires on air quality and public health in South Florida. *Environmental Health Perspectives*. <https://doi.org/10.1289/EHP9957>
11. Holmes, T., P. Williams, K. Smith, S. Wong, J.T. Bandzuh †, C.K. Uejio. (2022) Assessment of an evacuation shelter program for people with access and functional needs in Monroe County, Florida during Hurricane Irma. *Social Science and Medicine* <https://doi.org/10.1016/j.socscimed.2022.115108>
12. Harville, E., K. Pan, L. Beitsch, S. Sherchan, E. Gonsoroski †, C. Uejio, M.Y. Lichtveld. (2022) Hurricane Michael and adverse birth outcomes in the Florida panhandle: Analysis of vital statistics data. *Paediatric and Perinatal Epidemiology*. <https://doi.org/10.1017/dmp.2021.367>
13. Uejio, C.K., A. Patel, E. Gonsoroski, J.D. Tamerius, J. Jung, A. Yancey II. (2022) Indoor Heat Exposure and Diabetes Related Distress Calls. *Environmental Research* 212(B). <https://doi.org/10.1016/j.envres.2022.113271>

14. Ahn, Y. †, C.K. Uejio, J. Rennie, L. Schmit. (2022) Verifying Experimental Wet Bulb Globe Temperature hindcasts across the United States. *GeoHealth* e2021GH000527. <https://doi.org/10.1029/2021GH000527>
15. Uejio, C.K., E. Gonsoroski, S.P. Sherchan, L. Beitsch, M.Y. Lichtveld, C. Blackmore, P. Ke, E.W. Harville. (2022) Harmful Algal Bloom Public Complaints Complement Surveillance. *Journal of Water and Health* 20(3), 531-538. <https://doi.org/10.2166/wh.2022.257>
16. Ahn, Y. †, D. Okamoto, C.K. Uejio. (2022) Investigating City Bike Rental Usage and Wet-Bulb Globe Temperature. *International Journal of Biometeorology* 66 (4), 679-690.
17. Jung, J. †, C. K. Uejio, K. W. Kintziger, C. Duclos, K. Reid, M. Jordan, J.T. Spector, T.Z. Insaf. (2021). Social Determinants of Heat Vulnerability Using Empirical Data. *BMC Public Health*. 21 (1), 1-13 <https://doi.org/10.1186/s12889-021-12097-6>
18. Jung, J. †, C. K. Uejio, T. Adeyeye, T. Insaf, K. W. Kintziger, C. Duclos, M. Jordan, K. Reid. (2021) The Comparison of Heat-Related Health Outcomes between People with/without a Social Security Number. *Environmental Research*. <https://doi.org/10.1016/j.envres.2021.111738>
19. Manangan, A.P., C. Brown, S. Saha, J. Bell, J. Hess, C.K. Uejio, S. Fineman, P. Schramm. (2021) Increasing Pollen Trends in Atlanta, GA Over a 20-Year Period. *Annals of Allergy, Asthma, and Immunology* <https://doi.org/10.1016/j.anai.2021.07.012>.
20. McHenry, J., A. Rassweiler, G. Hernan, C.K. Uejio, S. Pau, A.K. Dubel, S.E. Lester. (2021) Modeling the biodiversity enhancement value of seagrass beds. *Diversity and Distribution*. <https://doi.org/10.1111/ddi.13379>
21. Harville, E., L. Beitsch, C.K. Uejio, S. Sherchan, M. Lichtveld. (2021) Assessing the effects of disaster and its aftermath on pregnant women: A conceptual model. *International Journal of Disaster Risk Reduction* 62(102415). <https://doi.org/10.1016/j.ijdr.2021.102415>.
22. Jung, J. †, M.Z. Al-Hamdan, W.L. Crosson, C.K. Uejio, C. Duclos, K. Kintziger, K. Reid, M. Jordan, D. Zierden, J.T. Spector, T. Insaf. (2021) Evaluation of the NLDAS 2 and Downscaled Air Temperature Data in Florida. *Physical Geography*. <https://doi.org/10.1080/02723646.2021.1928878>
23. K. Pan, L. Beitsch, E. Gonsoroski †, S. Sherchan, C.K. Uejio, M.Y. Lichtveld, E.W. Harville. (2021) Effects of Hurricane Michael on Access to Care for Pregnant Women and Pregnancy Outcomes. *International Journal of Environmental Research and Public Health*. <https://doi.org/10.3390/ijerph18020390>
24. Annie, F.H. †, C.K. Uejio, S. Embry. (2020) Spatial Outcomes of Soft Tissue Sarcoma in Southern West Virginia. *Cureus* 12(11): e11454. doi:10.7759/cureus.11454
25. Melix, B. †, C.K. Uejio, K. Kintziger, C. Duclos, K. Reid, M. Jordan. (2020) Florida Neighborhood Analysis of Societal Determinants and their Relationship to Life Expectancy Rates. *BMC Public Health Social Determinants of Health Section*.
26. Jung, J. †, C.K. Uejio, C. Duclos, and M. Jordan. (2019) Web Data Could Improve the Current Heat Waves Surveillance System. *Environmental Health* 18(59). <https://doi.org/10.1186/s12940-019-0499-x>

27. Tamerius, J., C.K. Uejio, and J. Koss. (2019) Seasonal Characteristics of Influenza Vary Regionally Across U.S. *PLOS One* 14(3):e0212511. <https://doi.org/10.1371/journal.pone.0212511>
28. Hu, L., O.V. Wilhelmi, and C.K. Uejio. (2019) Heat Exposure in Cities: Combining the Dynamics of Temperature and Population. *Science of the Total Environment*. 655. 1-12.
29. Grossman, E., M. Hathaway, M. Cahillane, D. English, T. Holmes, C.E. Moran, C.K. Uejio, E.A. York, S. Dorevitch. (2019) Mini-grants to Local Health Departments: An Opportunity to Promote Climate Change Preparedness. *Journal of Public Health Practice and Management*. <https://doi.org/10.1097/PHH.0000000000000826>
30. Annie, F.H.[†], M.C. Bates, C.K. Uejio, A. Bhagat, T. Kochar, S. Embrey. (2018) The Impact of the Drug Epidemic on Incidence of Sepsis at Charleston Area Medical Center. *Cureus*. <https://doi.org/10.7759/cureus.3022>
31. Annie, F.H.[†], C.K. Uejio, A. Bhagat, T. Kochar, S. Embrey, A. Tager. (2018) Survival Analysis of Cancer Patients of Differing Payer Type in South West Virginia, Between 2000 and 2013. *Cureus*. <https://doi.org/10.7759/cureus.3022>
32. Uejio, C.K., L.H. Morano, J. Jung[†], K. Kintziger, M. Jagger, J. Chalmers, T. Holmes. (2018) Occupational Heat Exposure among City Workers. *International Archives of Occupational and Environmental Health*. <https://doi.org/10.1007/s00420-018-1318-3>
33. Bell, J.E., C. Brown, K. Conlon, S. Herring, K. Kunkel, J. Lawrimore, G. Lubber, C. Schreck, A. Smith, C.K. Uejio. (2018) Changes in Extreme Events and the Potential Impacts on Human Health. *Journal of the Air & Waste Management Association*. 68(4), 265-287 <http://dx.doi.org/10.1080/10962247.2017.1401017>
34. Kuras, E.R., M.C. Bernhard, M.M. Calkins, K.L. Ebi, J.J. Hess, K.W. Kintzinger, M.A. Jagger, A. Middel, A.A. Scott, J.T. Spector, C.K. Uejio, J.K. Vanos, B.F. Zaitchik, J.M. Gohlke, D.H. Hondula. (2017) Opportunities and Challenges for Personal Heat Exposure Research. *Environmental Health Perspectives* 125(8), <http://dx.doi.org/10.1289/EHP556>
35. Uejio, C.K. (2017) Temperature Influences on Salmonella Infections across the Continental United States. *Annals of the Association of American Geographers*. 101(3), 751-764. <http://dx.doi.org/10.1080/24694452.2016.1261681>
36. Jung, J.[†], C.K. Uejio. (2017) Social media responses to heat waves. *International Journal of Biometeorology*. 61(7), 1247–1260. <http://dx.doi.org/10.1007/s00484-016-1302-0>
37. Tamerius, J.D., S. Ojeda, C.K. Uejio, J. Shaman, B. Lopez, N. Sanchez, A. Gordon. (2017) Influenza transmission during extreme indoor conditions in a low-resource tropical setting. *International Journal of Biometeorology*. 61(4), 613–622. <http://dx.doi.org/10.1007/s00484-016-1238-4>
38. Uejio, C.K., M. Christenson, C. Moran, M. Gorelick. (2017) Drinking Water Treatment, Climate Change, and Childhood Gastrointestinal Illness Projections for Northern Wisconsin. *Hydrogeology Journal* (Special Issue on Groundwater and Human Health) 25(4), 969–979. <http://dx.doi.org/10.1007/s10040-016-1521-9>
39. Conlon, K.C., K.W. Kintzinger, M. Jagger, L. Stefanova, C.K. Uejio, C. Konrad (2016). Working with Climate Projections to Estimate Disease Burden: Perspectives from Public Health. *International*

Journal of Environmental Research and Public Health, 13, 804.
<http://dx.doi.org/10.3390/ijerph13080804>

40. Uejio, C.K., J.D. Tamerius, D. Issacs, J. Braun, J. Freese, A. Quinn, G. Asaeda. (2016) Summer Indoor Heat Exposure and Respiratory and Cardiovascular Distress Calls in New York City, NY, U.S.. *Indoor Air*, 26(4), 594-604. <http://dx.doi.org/10.1111/ina.12227>
41. Widen, H.M., J.B. Elsner, S. Pau, C.K. Uejio. (2016) Graphical Inference in Geographical Research. *Geographical Analysis*, 48(2), 115-131. <http://dx.doi.org/10.1111/gean.12085>
42. Uejio, C.K., S. Mak, A. Monagnan, G. Luber, K.H. Bartlett. (2015) Systematic Weather Influences on *Cryptococcus gattii* Population Dynamics in the Air, Soil, and on Trees. *Emerging Infectious Diseases*. 21 (11), 1989-1996. <http://dx.doi.org/10.3201/eid2111.141161>
43. Marinucci, G., G. Luber, C.K. Uejio, S. Saha, J. Hess. Building Resilience Against Climate Effects – A Framework for Public Health Agencies. (2014) *International Journal of Environmental Research and Public Health*. Special Issue: Climate Change and Human Health. 11(6), 6433-6458. <http://dx.doi.org/10.3390/ijerph110606433>
44. Uejio, C.K., M.E. Hayden, E. Zielinski-Gutierrez, J.R. Robles Lopez, R. Barrera, M. Amador, G. Thompson, S. Waterman. (2014) Biological Control of Mosquitoes in Scrap Tires in Brownsville, Texas, USA, and Matamoros, Tamaulipas, Mexico. *Journal of the American Mosquito Control Association*. 30 (2), 130-135. <http://dx.doi.org/10.2987/13-6387.1>
45. Heaton, M.J., S.R. Sain, T.A. Greasby, C.K. Uejio, M.H. Hayden, A.J. Monaghan, J. Boehnert, K. Sampson, D. Banerjee, V. Nepal, O.V. Wilhelmi. (2014) Identifying Risk Factors for Heat-Related Mortality Using a Spatially Varying Coefficient Model. *Spatial and Spatio-temporal Epidemiology*, 8, 23-33. <http://dx.doi.org/10.1016/j.sste.2014.01.002>
46. Uejio, C.K., S.H. Yale, K. Malecki, M.A. Borchardt, H.A. Anderson, J.A. Patz. (2014) Drinking Water Systems, Hydrology, and Childhood Gastrointestinal Illness. *American Journal of Public Health*. 104 (4), 639-646. <http://dx.doi.org/10.2105/AJPH.2013.301659>
47. Tamerius, J.T., J. Shaman, W. Alonso, K. Bloom-Feshbach, C.K. Uejio, A.C. Comrie, C. Viboud. (2013) Environmental Predictors of Seasonal Influenza Epidemics Across Temperate and Tropical Climates. *PLoS Pathogens*. <http://dx.doi.org/10.1371/journal.ppat.1003194>
48. Lozano-Fuentes, S., M.H. Hayden, C. Welsh-Rodriguez, C. Ochoa-Martinez, B. Tapia-Santos, K.C. Kobylinski, C.K. Uejio, E. Zielinski-Gutierrez, L. Della Monache, A.J. Monaghan, D.F. Steinhoff, L. Eisen, (2012) The Dengue Virus Mosquito Vector *Aedes aegypti* at High Elevation in Mexico. *American Journal of Tropical Medicine and Hygiene*, 87, 5, 902-909 <http://dx.doi.org/10.4269/ajtmh.2012.12-0244>
49. Lozano-Fuentes, S., C. Welsh-Rodriguez, M.H. Hayden, C. Ochoa-Martinez, B. Tapia-Santos, K.C. Kobylinski, C.K. Uejio, E. Zielinski-Gutierrez, L. Della Monache, A.J. Monaghan, D.F. Steinhoff, L. Eisen, (2012) *Aedes (Ochlerotatus) epactius* Dyar & Knab along an Elevation and Climate Gradient in Veracruz and Puebla States, Mexico. *Journal of Medical Entomology*, 49, 6, 1244-1253 <http://dx.doi.org/10.1603/ME12067>
50. Uejio, C.K., T.W. Peters, J.A. Patz, (2012) Inland Lake Indicator Bacteria: Long-term Impervious Surface and Weather Influences and a Predictive Bayesian Model. *Lake and Reservoir Management*, 28, 3, 232-244 <http://dx.doi.org/10.1080/07438141.2012.716500>

51. Uejio, C.K., A. Kemp, and A.C. Comrie, (2012) Summer Precipitation Controls on West Nile Virus and Sindbis Virus Transmission and Outbreaks in South Africa. *Vector-borne and Zoonotic Diseases*, 12, 2, 117-125 <http://dx.doi.org/10.1089/vbz.2011.0655>
52. Uejio, C.K., O. Wilhelmi, J. Golden, D. Mills, S.P. Gulino, J. Samenow, (2011) Intra-Urban Spatial Patterns of Societal Vulnerability to Extreme Heat: The Role of Heat Exposure and the Built Environment, Socioeconomics, and Neighborhood Stability. *Health and Place*, 17, 2, 498-507 <http://dx.doi.org/10.1016/j.healthplace.2010.12.005>
53. Hayden, M.H., C.K. Uejio, K. Walker, F. Ramberg, R. Moreno, L.O. Mearns, and C.R. Janes, (2010) The Re-invasion of *Aedes aegypti* Along the US/Mexico Border. *EcoHealth*, 7, 1, 64-77 <http://dx.doi.org/10.1007/s10393-010-0288-z>
54. Biggs, R., M.W. Diebel, D. Gilroy, A.M. Kamarainen, M.S. Kornis, N.D. Preston, J.E. Schmitz, C.K. Uejio, M.C. Van de Bogart, P.C. West, D.M Zacks, S.R. Carpenter, (2010) Preparing for the Future: Teaching Scenario Planning at the Graduate Level. *Frontiers in Ecology and the Environment*. 8, 5, 267-273 <http://dx.doi.org/10.1890/080075>
55. Patz, J.A., S.H. Olson, C.K. Uejio, H.K. Gibbs. (2009) Disease Emergence from Global Climate and Land Use Change. *Medical Clinics of North America*, 92, 6, 1473-1491 <http://dx.doi.org/10.1016/j.mcna.2008.07.007>
56. Patz, J.A., S. Vavrus, C.K. Uejio., and S.L. McClellan, (2008) Climate Change and Waterborne Disease Risk in the Great Lakes Region of the U.S. *American Journal of Preventive Medicine* 35, 5, 451-458 <http://dx.doi.org/10.1016/j.amepre.2008.08.026>
57. Tamerius, J.D., E.K. Wise, C.K. Uejio, A.L. McCoy and A.C. Comrie (2007) Climate and Human Health: Synthesizing Environmental Complexity Under Uncertainty. *Stochastic Environmental Research & Risk Assessment (SERRA)*. Special Issue: Medical Geography as a Science of Interdisciplinary Knowledge Synthesis under Conditions of Uncertainty 21, 5, 601-613. <http://dx.doi.org/10.1007/s00477-007-0142-1>

Book Chapters

- Ebi, K.L., M.H. Hayden, Gorris, M.E, C.K. Uejio, J. Vanos (2024) *Uncertainty in Determining Impacts of Climate Change on Human Health* in Climate Change Projections. (Mearns, L., Wilby, R.)
- Uejio, C.K., J.D. Tamerius, E. Gonsoroski[†], Y. Ahn[†] (2021) *Primer on Climate Science* in Global Climate Change and Public Health. (eds. Lemory, J., Luber, G, Knowlton, K., Sorensen, C.). Wiley.
- Uejio, C.K., J.D. Tamerius, K. Wertz[†], K.M. Konchar (2015) *Primer on Climate Science* in Global Climate Change and Public Health. (eds. Luber, G. and Lemory, J.). Wiley.
- Patz, J.A., C.K. Uejio, (2008) Climate change and Vector-borne Disease: Update on Climate Effects on Lyme Disease and West Nile Virus in North America. Workshop Report: Vector-borne Diseases - Understanding the Environmental, Human Health, and Ecological Connections. National Research Council, Washington, DC.
- Uejio, C.K. (2007) Mosquito. The Encyclopedia of Environment and Society, Paul Robbins (ed.), Sage Publications. Invited Entry.

Federal Government Reports

- Kintziger, K., M. Jagger, K. Bush, K. Conlon, B. Haggery, L.H. Morano, K. Lane, M. Roach, S. Saha, L. Thie, C.K. Uejio, BRACE Methods Community of Practice (2020) Technical Documentation on Exposure-Response Functions for Climate-Sensitive Health Outcomes. Centers for Disease Control and Prevention Climate and Health Program: Atlanta, GA.
- Hess, J.J., Saha, S., Schramm, P.J., Conlon, K.C., Uejio, C.K., Lubber, G. (2015) Projecting Climate-Related Disease Burden: A Guide for Health Departments. President's Climate Action Plan. Centers for Disease Control and Prevention Climate and Health Program: Atlanta, GA.
- Manangan, A.P., Uejio, C.K., Saha, S., Schramm, P.J., Marinucci, G.D., Hess, J.J., Lubber, G. (2014) Assessing Health Vulnerability to Climate Change: A Guide for Health Departments. President's Climate Action Plan. Centers for Disease Control and Prevention Climate and Health Program: Atlanta, GA.
- Saha, S., P.L. Kinney, J. Madrigano, C.K Uejio (2012) Climate Change Impacts and Solutions by Sectors and Systems: Human Health in Climate Change in the Northeast A Sourcebook Draft Technical Input Report Prepared for the U.S National Climate Assessment (Eds. Horton, R., Solecki, W., and Rosenzweig, C.)

Outreach, Research Dissemination (not peer reviewed):

- Uejio, C.K., Y. Ahn (2022) Miami-Dade Extreme Heat Vulnerability Mapping Report. *Miami Foundation Climate and Heat Health Task Force*.
<<https://storymaps.arcgis.com/stories/6f1e91cf8a8e4d5d9bd67525575c042e>>.
- Uejio, C.K., Y. Ahn (2022) Miami-Dade Extreme Heat and Mortality Report. *Miami Foundation Climate and Heat Health Task Force*.
<<https://storymaps.arcgis.com/stories/6f1e91cf8a8e4d5d9bd67525575c042e>>.
- Carstens, J., Uejio, C., & Wing, A. (2022). Understanding Past, Present, and Future Tropical Cyclone Activity.
- Uejio, C.K. (2010) Extreme Heat. *Climate Wisconsin: Stories from a State of Change*.
<<http://climatewisconsin.org/story/extreme-heat>>. In this video, spoken word artist Elijah Furquan describes coping with extreme heat events in Milwaukee, WI USA.
- Uejio, C.K. (2006) Not another mosquito problem! *Climate Assessment for the Southwest Update*. 9, 1, 4.

Grants, Fellowships, and Awards

Under Review

The Bioecological Center for Rural Children's Health (BeRCH)
EPA Center for Early Lifestage Vulnerabilities to Environmental Stressors
Role: Principal Investigator (Project 2), Overall Center Co-PI

2023-2027

Advancing Birth Equity using NASA Earth Observations NASA Interdisciplinary Sciences Program Role: Principal Investigator	2023-2026
Cumulative Climate Change Attributable Human Health Risks in Overburdened Communities National Academies of Science Gulf Research Program Role: Principal Investigator	2023-2026
NIH Research Coordinating Center to Support Climate Change and Health Community of Practice Role: Co-investigator	2023-2026
NIH Alliance for Community Engagement-Climate and Health Role: Co-principal Investigator	2023-2025
NIH Long-Term Effects of Disasters on Health Care Systems Serving Health Disparity Populations. Multiple disasters, vulnerable populations, and quality and continuity of care across pregnancy: The Upper Gulf Coast Role: Co-Investigator	2022-2027
Florida Building Resilience Against Climate Effects Centers for Disease Control and Prevention, (\$500,000) Role: Principal Investigator	2023-2024
<i>Awarded Grants</i>	
Evaluating a heat-health action plan in rural Mexico to manage effects of heat Wellcome Trust Heat Adaptation (2,000,000 £) Role: Co-applicant	2023-2028
Harnessing ECOSTRESS to assess urban heat risks in human and avian communities NASA ECOSTRESS Science Team (\$450,000) Role: Co-principal Investigator	2023-2026
Prescribed Fire, Risk Management, Health, and Equity NASA Applied Sciences, Earth Sciences Division (\$250,000) Role: Principal Investigator	2022-2024
Assessing the Impact of Hurricanes on Infrastructure and Mental Health with Satellite- derived Measures of Disaster Exposure NASA Future Investigators in NASA Earth and Space Science and Technology (\$149,000) Role: Principal Investigator under Future Investigator (Elaina Gonsoroski – PhD Advisee)	2022-2025
Collaborating with the New Mexico Department of Health to Respond to Wildfires and Extreme Heat NASA Health and Air Quality Applied Science Team. (\$140,000)	2022-2024

Role: Principal Investigator	
Evaluating Urban Heat Island Mitigation Strategies on Diurnal Heat Exposure and Health Outcomes NASA Health and Air Quality Applied Science Team. (\$832,000) Role: Principal Investigator	2021-2025
The Environmental Impact of Prescribed Burns in Florida: Soil & Emission Characteristics for Risk Mitigation FSU Office of Research Collaborative Collision (\$50,000) Role: Co-Investigator	2022-2023
Environmental Factors Associated with Adverse Mental Health Impacts Following Disasters University of Florida + Florida State University, Clinical and Translational Science Award HUB Pilot. (\$25,000) Role: Principal Investigator	2021-2023
Environmental Influences on Pregnancy Outcomes after Hurricane Michael National Institutes of Health/ National Institute of Environmental Health Sciences Mechanisms for Time-Sensitive Research Opportunities in Environmental Health Sciences (R21) (\$433,069) Role: Co-Investigator	2019-2022
Societal Determinants of Health and Life Expectancy, Florida Department of Health (\$8,800) Role: Principal Investigator	2019
Florida Building Resilience Against Climate Effect, Climate Ready Cities and States Initiative, Centers for Disease Control and Prevention, (\$1,068,565) Role: Principal Investigator	2016-2021
Centers for Disease Control and Prevention, Intergovernment Personnel Act (\$64,000) Role: Technical Assistance	2013-2016
Indoor Environment and Emergency Response Health Outcomes. U.S. Environmental Protection Agency. Indoor Air and Climate Change. (\$500,000) Role: Principal Investigator	2015-2020
Occupational Heat Exposure, Florida Department of Health (\$10,000) Role: Principal Investigator	2015
Florida State University First Year Assistant Professor (\$20,000) Role: Principal Investigator	2013
National Center for Atmospheric Research Advanced Study Program Research Equipment Grant (\$3,000)	2012
Environmental Influences on Neglected Health Problems, PERISHIP Dissertation Fellowship in Hazards, Risks, and Disasters. National Science Foundation, Swiss Re, The Public Entity Risk Institute, and the University of Colorado Natural Hazards Center (\$10,000)	2010

Role: Principal Investigator

- System for Integrated Modeling of Metropolitan Extreme Heat Risk (SIMMER) 2010
Application for NASA Research Announcement Interdisciplinary Research in
Earth Science. Award #09-IDS09-0034 (\$1,490,000) PI: Wilhelmi, O.,
Role: Collaborator
- Developing a State-Level Health Impact Assessment of Climate Change in Wisconsin. 2009
Centers for Disease Control and Prevention. Award #1U01EH000428-01
(\$900,000) Under Anderson, H., Patz, J., Vavrus, S., Malecki, K, McLellan,
S., Corsi, S., Borchardt, M., Gorelick, M.
- Robert Wood Johnson Foundation Dissertation Grant (\$5,000) 2007
Role: Principal Investigator
- Geographies of Insects and Institutions: Mosquito Governance in the U.S. Southwest. 2006
National Science Foundation, Geography and Regional Science. Award
617953 , (\$100,000). Under Robbins, P., Comrie A.C., Jones J.P., and
Willott E.

Fellowships, Awards, and Recognition

- Florida State University College of Social Science and Public Policy Outstanding 2020
Research Award (Mid Career)
- American Association of Geographers Health and Medical Geography Specialty 2017
Group Emerging Scholar Award
- American Association of Geographers J. Warren Nystrom Award (Best Dissertation 2013
Paper) Finalist
- University of Wisconsin-Madison Graduate Student Peer Mentor Award 2010
- American Public Health Association Environment Section Student Achievement 2008
Award Poster Section, Second Place
- Tuition Scholarship, Department of Geography and Regional Development, 2004, 2005
University of Arizona
- Graduate Fellowship, Graduate College, University of Arizona 2004

Conference Papers Presented

*In absentia. Presentation by attending co-author.

- 2023 American Association of Geographers – Co-organizer. The health impacts of climate change and
society's response to climate change: a call for climate justice
- 2022 National Academies of Sciences, Engineering, and Medicine Opportunities & Challenges of
Climate Adaptation on Florida's Gulf Coast (Invited)
American Association of Geographers – Co-organizer. The health impacts of climate change and
society's response to climate change: a call for climate justice
Miami-Dade County Climate and Health Heat Task Force (Invited)
- 2021 Sarasota County Annual Sustainable Communities Workshop (Invited)

- Southeast Florida Regional Climate Change Compact Workshop on Extreme Heat (Invited)
 New York City Climate Week. Protecting the Planet, Protecting Pregnancies: Strategies for Combating the Climate Crisis. (Invited)
 American Flood Coalition and American Public Health Association. One Year Later: Considerations for Communities Experiencing Dual Disaster Events (Invited)
 Simon Fraser University Geography Department Colloquium (Invited)
 TEDxFSU (Invited)
 American Association of Geographers, Geographic Sciences Committee of the National Academies of Science (Invited)
 University College London (Invited)
 American Meteorological Society, Twelfth Conference on Environment and Health*
- 2020 National Academy of Sciences, Engineering, and Medicine. Modeling and Forecasting the Impacts of Extreme Events and Variable Temperatures on City Dwellers (Invited)
 Coastal Universities Coalition web briefing on Dual Disasters: Coastal Storm Season in the time of COVID-19 (Invited)
 National Academies' Gulf Research Program Informing EnCoRe Panel: Public Health (Invited)
 Florida Keys Health Ready Coalition* – Cancelled due to COVID-19
 American Association of Geographers – Cancelled due to COVID-19
 Centers for Disease Control and Prevention, Climate Ready Cities and States Grantee Meeting (Invited)
 Florida Hospital Association, Get your Hospital Climate Ready (Invited)
 American Meteorological Society, Eleventh Conference on Environment and Health
- 2019 Florida Clinicians for Climate Action (Invited)
 Association of State and Territorial Health Official State Environmental Health Directors Peer Group (Invited)
 Extreme Weather in Iowa: Paths to Equitable Response, Recovery, and Resilience (Invited)
 U.S. Global Change Research Program Experimental Climate and Health Outlooks Workshop (Invited)
 U.S. National Drought & Public Health Summit (Invited)
 Gulf Climate Community of Practice (Invited)
 American Association of Geographers*
- 2018 Lancet Planetary Health*
- 2017 American Association of Geographers – Co-organizer Extreme Events, Hazards, and Health
 National Center for Atmospheric Research/Centers for Disease Control and Prevention Workshop on Climate and Health (Invited)
 National Institute of Environmental Health Sciences, the National Institute on Aging, the U.S. Environmental Protection Agency, the Indian Health Service, Centers for Disease Control and Agency for Toxic Substance and Disease Registry Workshop (Invited)
 American Association of Geographers
- 2016 Seven Hills Regional User Group (Invited)
 American Public Health Association
 Association of American Geographers – Co-organizer Geographical Methods for Climate Adaptation: Perspectives from CDC CRSCI Participants
 American Meteorological Society, Seventh Conference on Environment and Health
- 2015 Healthy Buildings 2015 America (Invited)
 Virginia Tech Geography Department Colloquium (Invited)
- 2014 International Congress of Biometeorology
 Center for Disease Control and Prevention Climate-Ready States & Cities Initiative Meeting
 Association of American Geographers – Co-organizer Spatial Epidemiology Session
 United States Global Change Research Program Public Forum to Inform the Special Report on Climate and Health (Invited)
 American Meteorological Society, Fifth Conference on Environment and Health

- 2013 American Statistical Association Joint Statistical Meeting*
 The State of the Science: Vulnerability Webinar, Centers for Disease Control and Prevention,
 Climate and Health Program (Invited)
 NOAA National Climate Prediction and Projection Advisory Workshop (Invited)
 Building Resilience Against Climate Change: Climate-Ready States Webinar, Association of
 State and Territorial Health Officials (Invited)
 Association of American Geographers
- 2012 Center for Disease Control and Prevention Geography and Geospatial Sciences Working Group
 (Invited)
 International Society for Environmental Epidemiology
 Association of American Geographers
- 2011 Kent State University Department of Geography Colloquium (Invited)
 Water and Health Conference: Where Science Meets Policy*
 Society for Vector Ecology, Special Session on Landscape Ecology (Invited)
 American Meteorological Society Summer Community Meeting, Human Health Session (Invited)
 International Symposium on Society and Resource Management
 Centers for Disease Control and Prevention Inaugural Conference on Climate Change and Human
 Health
 Association of American Geographers
- 2010 Association of American Geographers – Organized special sessions on Biophysical Influences on
 Environmental Health Problems and Infectious Diseases
- 2009 National Environmental Public Health Conference
 Association of American Geographers
- 2008 American Geophysical Union*
 American Society of Tropical Medicine and Hygiene*
 EcoHealth (poster)
 NCAR GIS Initiative Workshop: GIS in Weather, Climate and Impacts*
 American Public Health Association (poster)
 Association of American Geographers
 European Geosciences Union*
- 2007 Excessive Heat Events: Confronting Climate Change, Vulnerability, and Urbanization by
 Improving Heat Health Services, Mitigation Strategies, and Communications Workshop
 (Invited)
 Association of American Geographers
 American Meteorological Society*
- 2006 Earth System Science Partnership Global Environmental Change Open Science Conference
 EcoHealth One
 American Meteorological Society Conference on Biometeorology and Aerobiology
 Association of American Geographers
 American Meteorological Society
- 2005 American Society of Tropical Medicine and Hygiene (poster)
 Association of Pacific Coast Geographers
 NCAR GIS Initiative Workshop: GIS in Weather, Climate and Impacts (poster)
 Association of American Geographers

Teaching Experience

Department of Geography, Florida State University	2012-present
Advanced Statistics (Geography 5934)	
Global Health (Geography 5345)	
Social Science Geographic Information Systems Applications (Geography 5400)	

Introduction to Environmental Studies (Geography 1330)
 Medical Geography (Geography 4450/5934)
 Quantitative Geography (Geography 5165C)

Instructor, Pre-College Enrichment Opportunity Program for Learning Excellence, 2010
 University of Wisconsin-Madison, “What’s on your plate?”

Instructor, Department of Geography, University of Arizona 2006
 Our Changing Climate (Geography 230)

Consulting

Miami Foundation. Extreme heat vulnerability mapping and epidemiological analysis 2022
 for world’s first heat resilience officer

Centers for Disease Control and Prevention, Climate and Health Program 2013
 Provided Technical Guidance on the Building Resilience Against Climate Effects
 (BRACE) Framework to State Public Health Departments

Pan American Health Organization. 2007-2008
 Project title: The Role of Waste Tires in the Risk of Dengue Fever in Brownsville,
 TX and Matamoros, MX

National Oceanic and Atmospheric Administration, Office of Global Programs, Climate 2002-2006
 Variability and Human Health.
 Project title: The Potential for the Emergence of Dengue Fever in the SW
 United States/NW Mexico

Service

Internal, Florida State University
 Geography Graduate Director 2021-present
 2019-2020

Outstanding Teaching Assistant Award Faculty Review Committee 2022
 Geography Teaching Faculty Hiring Chair 2022
 Faculty Senate Grievance Committee 2019-present
 Masters of Public Health Reaccreditation Committee 2019-present
 Geography Executive Committee 2018-present
 Geography Graduate Program Committee 2015-present
 Masters of Public Health Self-Study Committee 2015-present
 Health/Medical Geography Hiring Committee Chair 2018
 Geography and Environmental Studies Student Association Faculty Representative 2015-2017
 Geography Aging Hiring Committee 2015
 Geography Political Geographer Hiring Committee 2013-2014
 Masters of Public Health Accreditation Committee 2012-2014
 Geography Colloquium Series Coordinator 2013

Other Internal
 Center for Sustainability and the Global Environment Seminar Series Reorganization 2008-2009
 Committee
 Center for Sustainability and the Global Environment Summer Journal Club on Public 2007

Policy and Science, Organizer
 Faculty Search Committee, Associate Professor of Physical Geography, University of Arizona, Graduate Student Representative. 2006
 Member of the editorial staff: *You Are Here*; journal of creative Geography 2004-2005

External

National Science Foundation Human-Environment and Geographical Sciences Program Review Panel 2022
 Group on Earth Observations Global Network. NASA Sustainable Development Goals Representative 2022-present
 Southeast Florida Regional Climate Change Compact Regional Climate Action Plan (RCAP 3.0) Subject Matter Expert 2022
 Health Care Without Harm Resilience Advisory Committee 2020-2021
 Centers for Disease Control and Prevention, Environmental Public Health Tracking Climate Change Indicators Workgroup 2018-2021
 City of Pensacola, Climate Mitigation and Adaptation Task Force 2018
 Florida Department of Health, Environmental Health Tracking Program Advisory Panel 2017-present
 U.S. Environmental Protection Agency, Extreme Events and Health Aging Panel 2016-2017
 National Aeronautics and Space Administration Air Quality Applied Sciences Review Panel 2016
 Florida Department of Health Building Resilience Against Climate Effects Technical Advisory Group 2013-2016
 NOAA National Climate Predictions and Projections Platform Public Health Advisory Group 2012-2014
 Association of American Geographers Health and Medical Geography Specialty Group At-Large Board Member 2012-2014
 Centers for Disease Control and Prevention, Environmental Public Health Tracking Network, Climate Change Portal Review Panel 2011
 Nelson Institute for Environmental Studies Student Representative 2008-2010
 Yahara Lakes Partnership, Beach Bacteria Advisory Committee 2008-2010

Committee Membership

Doctoral Student Advisory Committee

In Progress

- J.T. Bandzuh (Advisor)
- Bertram Melix (Advisor)
- Elaina Gonsoroski (Advisor)
- David Hsu (Co-Advisor)
- Hayley Lemoine
- Kyusik Kim

Completed, Primary Advisor

- Yoonjung Ahn (2022) “Extreme Heat Prevention Measures for Outdoor and Indoor Environments”
- Jihoon Jung (2019) “Methods to Improve Existing Heat Wave Surveillance Systems” Currently at the University of Washington School of Public Health
- Frank Annie (2019) “Structural Health Outcomes in the Appalachian Region”. Currently at Charleston Area Medical Center.

Completed, Committee Member

- Jihyeon Lee – Statistics (2022) “Constrained Bayesian Inference for Density Estimation and Informative Bayesian Models”
- Elizabeth Ruff (2022) “Culturing the Future of Seafood: Spatial and theoretical considerations for marine aquaculture development”
- Jennifer McHenry (2022) “Modeling biodiversity redistribution and ecosystem service provision in coastal marine environments”
- Joseph Bommarito – Political Science (2021) “Maritime Pathways and Modern Trade Routes”
- Feilin Lai (2021) “Geospatial Analysis of Informal Settlements in a Large Latin-American City: Satellite Mapping of Urban Patterns and Linking with Criminal Incidents”
- Zoe Schroder (2021) “Tornado Outbreak Climatology in the United States (1995–2020): Definitions, Descriptions, and Statistical Analyses”
- Filiberto Asare-Akuffo (2021) “Spatial Behavior and Access to Oral Health Services: A Geographical Analysis of Different Health Care Systems”
- AmirSasan Mahjoor (2021) “Effect of Wetland Spatial Pattern and Human Activities on Wetland Habitat Quality: Case Study in Florida’s Wetland-Agriculture Interface”
- James Gaobardi (2019) “Populated Polygons to Networks: A Population-Centric Approach to Spatial Network Allocation”
- Fang Zhang (2019) “Urban Growth, Landscape Changes and Coastal Vulnerability: A GIScience Approach”
- Guang Xing (2017) “Urban Growth Patterns and Drivers in Florida, the United States: Parcel-based New Measures and Modeling of Multi-scale Factors”
- Brittany Wood (2017) “Aging in Activity Spaces: Understanding the Automobility of Aging Populations”
- Olivia Williams (2017) “Rondo Community Land Trust's Ethical Strategies for Urban Governance”
- Julie Mura (2016) “Geographical Conflict in Bolivia: Mobilization of Identity by the Comité Pro Santa Cruz”.
- Holly Widen (2016) “New Methods in Tornado Risk and Vulnerability Assessments”
- Di Shi (2016) “Integrating Remote Sensing with Geospatial Analysis to Map and Interpret Vegetation Patterns in an Urban Environment”
- Eric Fraza (2016) “Spatial Analyses of Climatological Effects on Hurricane Intensification Rates”
- Sara Strazzo (2015) “Assessing the Ability of Climate Models to Simulate the Observed Sensitivity of Tropical Cyclone Intensity to Sea Surface Temperature”
- Nick Quinton (2014) “Making Meaning, Making Impact: Tea Party Activism and The Tennessee Republican Gubernatorial Primary in 2010”
- Kelly Kingon (2013) “Mapping, Classification, and Spatial Variation of Hardbottom Habitats in the Northeastern Gulf of Mexico”

Masters Student Advisory Committee

In Progress

- Shaifali Prajapati (Advisor)
- Quinn Steele (co-Advisor)
- Md. Shaharier Alam
- Nancy Nthiga

Completed, Primary Advisor

- Elaina Gonsoroski (2019) “Evaluating the Relationship between Indoor Heat Exposure and Emergency Calls in New York City, NY During Summer 2016” – Winner of the American Association of Geographer’s Jacques May Thesis Prize.

Completed, Committee Member

- Sophia Muina (2022) - International Affairs
- David Dewall (2018) - International Affairs
- Bethany Smith (2017) - International Affairs
- Kelly Neely (2016) - Texas A&M, Atmospheric Science. “The Impact of Climate on the Current and Future Prevalence of the *Aedes aegypti* Mosquito Vector in Brownsville, Texas”
- Gavin Benner (2014) - International Affairs
- Nolan Garrett Faircloth (2014) - International Affairs
- Rhonne Sanderson (2014) - International Affairs
- Kyle Clark (2014) - International Affairs
- Brittany Wood (2013) “Accessibility to SNAP Accepting Food Retail Locations”
- Laura Michaels (2013) “The Spatial and Temporal Dimensions of the Population Bias in U.S. Tornado Reports”

Undergraduate Student Advisory Committee

- Matthew Molinari (2021), Sociology – “A Demographic Analysis of the Effects of the COVID-19 Pandemic and Relevant Statistical Precedents
- Thomas Karmel (2016), Earth, Ocean, and Atmospheric Science – “Exploring Variation in Rainfall Events in the Southeastern United States”
- Cara Estes (2016), Biology – “Reef Fish Analysis between the East and West of Cape San Blas”
- David Miller (2015), Religion – “The Obesity Epidemic, Public Health Partnerships, and Weight Loss in American Evangelical Protestant Churches”

Reviewer

American Meteorological Society Book Review (2020)

National Science Foundation Geography and Spatial Sciences (2011, 2012-2x, 2013, 2017)

Medical and Health Geography, 4th Edition (2015)

Medical and Health Geography Jacques May Thesis Prize (2016)

Annals of the Association of American Geographers (2013, 2014)

Climatic Change (2018)

Computers, Environment and Urban Systems (2012)

EcoHealth (2010, 2012)

Environmental Health (2017)

Environmental Health Perspectives (2013, 2014-2x, 2015, 2017, 2021, 2022)

Epidemiology and Infection (2012)

GeoHealth (2022)

Global Change Biology (2012)

Health and Place (2012, 2013, 2018)

Hydrogeology Journal (2016)

International Journal of Biometeorology (2014, 2015, 2016-2x, 2017, 2020)

International Journal of Health Geographics (2010)

International Journal of Environmental Research and Public Health (2015)

Journal of the American Mosquito Control Association (2013)

Journal of Vector-borne and Zoonotic Diseases (2011)

Journal of Vector Ecology (2011)

Landscape and Urban Planning (2016)

Oxford University Press Book Proposal (2014)

PLoS Neglected Tropical Diseases (2014, 2015, 2020)
PLoS One (2016)
Progress in Physical Geography (2012)
Professional Geographer (2022)
Science of the Total Environment (2017, 2018, 2021)
Social Science and Medicine (2014)
Weather, Climate, and Society (2015, 2017, 2019)

Professional Affiliations

Association of American Geographers	2004-present
American Meteorological Society	2004-present
American Public Health Association	2008-present
EcoHealth	2008-2010
American Association for the Advancement of Science	2008-2011
American Geophysical Union	2004-2009

Technical Skills and Languages

Programming languages, scientific packages and tools:

- Significant experience with: ArcGIS, MATLAB, STATA, R, Excel
- Some experience with: FORTRAN, C++, FRAGSTATS, ENVI, Python, SPSS, PCORD, WinBUGS

Spanish (3 years of training)