Yun Hang, PhD, MS
University of Texas Health Science Center at Houston
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Education and Training

Postdoc, Environmental Health
Rollins School of Public Health, Emory University, Atlanta, GA, USA

PhD, Environment and Resources
Nelson Institute for Environmental Studies, University of Wisconsin, Madison, WI, USA

Employment History

Assistant Professor (2023-)
Department of Environmental and Occupational Health Sciences, Department of Biostatistics and Data Science (Jointly Appointed)
School of Public Health, University of Texas Health Science Center at Houston, Houston, TX, USA

Postdoctoral Research Fellow (2020-2023)
Gangarosa Department of Environmental Health
Rollins School of Public Health, Emory University, Atlanta, GA, USA

Research Experience

My research focuses on assessing environmental determinants of health, concentrating on vulnerable populations. Collaborating with multidisciplinary teams, I develop solutions to mitigate health risks linked to environmental pollution and climate change, especially in low- and middle-income countries (LMICs). My work is organized around three core themes: using satellite remote sensing to analyze air pollution, extreme weather, and climate change; creating sophisticated environmental exposure models to capture spatiotemporal variations; and evaluating health outcomes associated with these exposures. This research has led to publications in prestigious peer-reviewed journals and has successfully attracted extramural funding.

Key Publications

* Role as First or Corresponding Author

- Huang H, Lu Z, Fan X, Zhai W, Zhang L, Xu D, Liu Z, Li Y, Ye X, Qin H, Lanza K, Hang Y,* 2024. Urban heatwave, greenspace, and mental health: a review based on environmental health risk assessment framework. *Science of The Total Environment*, 174816.

- Hang Y,* Meng X, Xi Y, Zhang D, Lin X, Laing F, Tian H, Li T, Wang T, Cao J, Fu Q, Dey S, Li S, Huang K, Kan H, Shi X, Liu Y, 2023. Atmospheric elemental carbon pollution and its regional health disparities in China. *Environmental Research Letters*, 18 124017.
- Meng X, Hang Y,* Lin X, Li T, Wang T, Cao J, Fu Q, Dey S, Huang K, Liang F, Kan H, Shi X, Liu Y, 2023. A satellite-driven model to estimate long-term particulate sulfate levels and attributable mortality burden in China. *Environment International*, 107740.
- Hang Y,* Meng X, Li T, Wang T, Cao J, Fu Q, Dey S, Li S, Huang K, Liang F, Kan H, Shi X, Liu Y, 2022. Assessment of long-term particulate nitrate air pollution and its health risk in China. *iScience*, p.104899.
- L'Ecuyer TS, Hang Y,* Matus AV, Wang Z, 2019. Reassessing the effect of cloud type on Earth's energy balance in the age of active spaceborne observations. Part I: Top of atmosphere and surface. *Journal of Climate*, 32(19).
- Hang Y,* L'Ecuyer TS, Henderson DS, Matus AV, Wang Z, 2019. Reassessing the effect of cloud type on Earth's energy balance in the age of active spaceborne observations. Part II: Atmospheric heating. *Journal of Climate*, 32(19).

Selected Honors and Awards

- Rising Star featured by the AGU GeoHealth Journal
  American Geophysical Union
- Emory Staff Fest 3K Run Competition Winner (3rd Place)
  Emory University
- PhD Thesis Award
  Wisconsin Initiative for Science Literacy
- Student Research Grants Competition Award (1st Level)
  University of Wisconsin-Madison
- Reid Bryson Graduate Scholarship for Excellent Research
  University of Wisconsin-Madison
- Featured by the TV show "Weather Geeks" as "Future Geek"
  The Weather Channel
- Atmospheric, Oceanic & Space Sciences Best Student Presentation Award
  University of Wisconsin-Madison

Professional Society Membership

American Geophysical Union