

# Jennifer D. Stowell, PhD, MPH

## Contact Information

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## Educational Experience

- 2019 PhD, Environmental Health Science  
Rollins School of Public Health, Emory University, Atlanta, GA  
Dissertation: Multiple Approaches to Understanding the Intersection of Climate Change, Air Quality & Public Health  
Advisors: Matthew Strickland, PhD & Yang Liu, PhD
- 2015 MPH, Environmental Health  
Rollins School of Public Health, Emory University, Atlanta, GA  
Thesis: Distinguishing between the Effects of Climate Change and Emissions Mitigation on Ozone Concentration: Implications for Human Health  
Advisor: Yang Liu, PhD
- 2008 BS, Geography  
Brigham Young University, Provo, UT

## Professional Experience

- 2021-present Postdoctoral Co-Instructor (SPH EH 720 Climate Change and Public Health)  
School of Public Health, Boston University, Boston, MA
- 2020-present Postdoctoral Associate  
Advisors: Drs Greg Wellenius and Patrick Kinney  
School of Public Health, Boston University, Boston, MA
- 2019-2020 Postdoctoral Fellow  
Advisor: Dr. Yang Liu  
Rollins School of Public Health, Emory University, Atlanta, GA

## Select Peer-reviewed Publications

### Published or In Press

1. Romanello M, Di Napoli C, Drummond P, **et al.**, “The 2022 Report of the Lancet Countdown on Health and Climate Change: compounding health crises.” *The Lancet*, 2022 (In press).
2. **Stowell JD**, Sun Y, Sun S, Spangler KR, Milano CW, Bernstein A, Weinberger KR, Wellenius GA. “Warm-Season Temperatures and Emergency Department Visits among Children with Health Insurance.” *Environmental Research: Health*, 2022 (In press.).
3. Heaney A, **Stowell JD**, Liu JC, Basu R, Marlier M, Kinney P. “Impacts of Fine Particle Matter from Wildfire Smoke on Respiratory and Cardiovascular Health in California.” *GeoHealth*, 2022.
4. **Stowell JD**, Yang CE, Fu JS, Scovronick NC, Strickland MJ, Liu Y. “Asthma exacerbation due to climate change-induced wildfire smoke in the Western US.” *Environmental Research Letters*, 2022.
5. Gorris ME, Anenberg SC, Goldberg DL, Kerr GH, **Stowell JD**, Tong D, Zaitchik BF. “Shaping the Future of Science: COVID-19 highlighting the importance of GeoHealth.” *GeoHealth*, May 2021.
6. Zaitchik BF, Sweijd N, Shumake-Guillemot J, Morse A, Gordon C, Marty A, Trtanj J, Luterbacher J, Botai J, Behera S, Lu Y, Olwoch J, Takahashi K, **Stowell JD**, Rodo X. “A framework for research linking weather, climate and COVID-19.” *Nature Communications*, November 2020.

7. **Stowell JD**, Alhamdan M, Bi J, Guannan G, Meng X, Liu Y, Kinney P, Freedman F. “Estimating PM2.5 in Southern California using satellite data: factors that affect model performance.” *Environmental Research Letters*, 2020.
8. **Stowell JD**, Geng G, Saikawa E, Fu J, Yang CE, Zhu Q, Liu Y, Strickland MJ. “Associations of wildfire smoke PM2.5 exposure with cardiorespiratory events in Colorado 2011-2014.” *Environment International*, December 2019.
9. Bi J, **Stowell JD**, Seto EYW, English PB, Al-Hamdan MZ, Kinney PL, Freedman FR, Liu Y. “Contribution of low-cost sensor measurements to the prediction of PM2.5 levels: A case study in Imperial County, California, USA.” *Environmental Research*, October 2019.
10. **Stowell JD**, Kim YM, Gao Y, Fu JS, Chang HH, Liu Y. “The impact of climate change and emissions control on future ozone levels: Implications for human health.” *Environment International*, August 2017.

## Conference Sessions Chaired (Past & Forthcoming)

**Stowell JD**, Buffka L, Kurtzman H, Chen K (2022). Mental Health Consequences of Climate: Panel Discussion. American Geophysical Union Annual Fall Conference

**Stowell JD**, Bell JE, Liu Y, Kinney P (2020). Current Methods and Challenges to Characterize the Impacts of Climate Change on Human Health. American Geophysical Union Annual Fall Conference

Zaitchik BF, Sweijd N, Shumake-Guillemot J, Morse A, Gordon C, Marty A, Trtanj J, Luterbacher J, Botai J, Behera S, Lu Y, Olwoch J, Takahashi K, **Stowell JD**, Rodo X. (2020) Climatological, Meteorological and Environmental factors in the COVID-19 pandemic (various sessions).

## Selected Press

“Western Wildfires’ Health Risks Extend Across the Country” *ScienceNews* June 2022

“Wildfires May Exacerbate Asthma in the Western United States” *EOS* December 2020

“Is it Safe to Exercise if the Air Is Hazy with Wildfire Smoke?” *NYT* September 2020

## Professional & Community Service

2022- Invited Member, North American World Meteorological Organization Vegetation Fire and Smoke Pollution Warning and Advisory System (VFSP-WAS) Working Group on Wildfire Risk Forecast

2022- Invited Member, North American World Meteorological Organization Vegetation Fire and Smoke Pollution Warning and Advisory System (VFSP-WAS) Health Working Group

2021- Member, Boston University School of Public Health, Department of Environmental Health DEI Committee, Boston, MA

2021- Member, Environmental Health Community Building Committee, Boston, MA

2021- Member, Boston University School of Public Health Staff Senate, Boston, MA

2018- Co-Chair, GeoHealth Section Meetings Committee, American Geophysical Union

2015-2019 Member of Environmental Health Sciences Student Government Association, Atlanta, GA

## Ad Hoc Review

Atmosphere; BMC Medicine; BMC Public Health; GeoHealth; *Environmental Research Letters*;

*Environmental Research*; *Journal of Environmental Management*; *Paediatric and Perinatal Epidemiology*;

*Science of the Total Environment*; *Toxics*