

Lynée L. Turek-Hankins

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EDUCATION

University of Miami, Miami, FL, 2019-present

Ph.D. Candidate, Environmental Science and Policy; Rosenstiel School of Marine, Atmospheric, and Earth Science and Abess Center for Ecosystem Science and Policy
Focus areas: climate change adaptation, energy and housing policy, complex systems

Stanford University, Stanford, CA, 2014-2019

B.S.E. in Mechanical Engineering
Focus areas: thermodynamics, heat transfer, building energy physics
Gap year: 2018

PEER REVIEWED JOURNAL ARTICLES & PUBLICATIONS

Turek-Hankins L.L., E. Coughlan de Perez, G. Scarpa, R. Ruiz-Diaz, P.N. Schwerdtle, E. Tom Joe, E.K. Galappaththi, E.M. French, S.E. Austin, C. Singh, M. Siña, A.R. Siders, M.K. van Aalst, S. Templeman, A.M. Nunbogu, L. Berrang-Ford, T. Agrawal, the Global Adaptation Mapping Initiative team, and K.J. Mach (2021) Climate change adaptation to extreme heat: A global systematic review of implemented action. *Oxford Open Climate Change* 1(1): kgab005 <https://doi.org/10.1093/oxfclm/kgab005>

Media coverage: [NEWS@TheU](#)

Araos M. et al. [including **L.L. Turek-Hankins**] (2021) Equity in adaptation: A systematic global review. *One Earth* 4(10): <https://doi.org/10.1016/j.oneear.2021.09.001>

Berrang-Ford L., et al. [including **L.L. Turek-Hankins**] (2021) A systematic global stocktake of evidence on human adaptation to climate change. *Nature Climate Change* 11, 989-1000: <https://doi.org/10.1038/s41558-021-01170-y>

Turek-Hankins L.L., M. Hino, and K.J. Mach (2020) Risk screening methods for extreme heat: Implications for equity-oriented adaptation. *PLoS ONE* 15(11): e0240841 <https://doi.org/10.1371/journal.pone.0240841>

Manuscripts under review

Mach, K.J., R. Vallario, J.R. Arnold, C. Brelsford, K.V. Calvin, A.N. Flores, J. Gao, K. Jagannathan, D. Judi, C.E. Martín, F.C. Moore, R. Moss, E. Nance, B. Rashleigh, P.M. Reed, L. Shi, **L.L. Turek-Hankins**, D.L. McCollum, and F. Lipschultz. (In review)
Chapter 18: Sector interactions, multiple stressors, and complex systems. In: Fifth

National Climate Assessment. U.S. Global Change Research Program, Washington, DC, USA.

McMillan, D, M.R. Mason, K. Howard, **L.L. Turek-Hankins**, C. Herring, D. Samano, K.L. Grant, J.L. Lombard, E.R. Felix, K.J. Mach, D.R. Gater, and the South Florida Spinal Cord Injury Support Groups (In review) A community research partnership to understand hurricane preparedness in South Floridians living with spinal cord injury (SCI).

Manuscripts in prep

Turek-Hankins L.L., M. Cruz, N. Brown, N. Muse, A. Clement, and K.J. Mach (In prep)
Multisector indoor heat risk in a chronically hot city.

Turek-Hankins L.L., V. Schueler, M. Hino, T. Thomas, and K.J. Mach (In prep) The impacts of energy assistance and weatherization programs on household stability.

Cruz, M., **L.L. Turek-Hankins**, N. Brown, N. Muse, A. Clement, and K.J. Mach (In prep)
Robbing Peter to pay Paul: Response tradeoffs to managing indoor heat exposure.

Cruz, M., N. Muse, **L.L. Turek-Hankins**, A. Clement, A. Bozgoz, J. Marturano, K. Bishop, Z. Bailey, S. Evans, and K.J. Mach (In prep) Where heat doesn't come in waves: A Framework for understanding and managing chronic humid heat, its risks, and potential action.

Mach, K.J., J.R. Arnold, C. Brelsford, A.N. Flores, J. Gao, K. Jagannathan, D. Judi, C.E. Martin, F.C. Moore, R. Moss, B. Rashleigh, P. Reed, L. Shi, and **L.L. Turek-Hankins** (In prep)
Advancing actionable complex systems approaches for equity and governance.

Miro, M., A. Becerra, **L.L. Turek-Hankins**, A. Huttinger, and K. Klima (In prep) Taking the plunge: How visualizing chance, risk, and cost of flooding affects homebuying decisions.

Rogers, R., R. Lempert, **L.L. Turek-Hankins**, Z. Abdurahaman, and A. Huttinger (In prep)
Kern County, emerging technologies, and a changing energy sector: A method to foster community engagement in the absence of trust.

UNREFEREED PUBLICATIONS

Turek-Hankins L. and K. Mach (October 2021) A major new workplace safety initiative targets dangerous heat on the job, but what about chronic heat exposure? The Conversation. [Link](#)

AWARDS, FELLOWSHIPS, & GRANTS

| | |
|--------------------------------|----------|
| RAND Summer Associates Program | 2023 |
| The RAND Corporation | \$14,000 |

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| Future Climate Leader | 2023 |
| The Aspen Institute, Energy & Environment Program | |

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| Graduate Research Fellowship Program The National Science Foundation | 2021 \$138,000 |
| Racial Justice Research Grant University of Miami | 2021 \$5,000 |
| ULink Climate Justice Fellowship University of Miami | 2020 \$31,000 |
| Mentoring Undergraduates in Interdisciplinary Research Grant Stanford Woods Institute for the Environment | 2018 \$7,000 |
| Questbridge Match Scholar Questbridge Alumni Network | 2013 |

TEACHING EXPERIENCE

University of Miami

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| Covering Global Issues in Miami (<i>Guest lecturer</i>) | 2023 |
| EVR 511/611: The Science of Actionable Knowledge (<i>Guest lecturer</i>) | 2023 |
| COM 406, GEG 390, ECS 304, ENG 181: Climate Resilience Academy (<i>Guest lecturer</i>) | 2022 |
| ECS 403, COS 591/691, RSM 520/620: Climate and Society (<i>Guest lecturer</i>) | 2021 |
| CCA 594/795, JMM 592/692: Podcast storytelling (<i>Guest lecturer</i>) | 2020 |
| PSC 101: Physical Science and Technology for Future Presidents (<i>Guest lecturer</i>) | 2020 |
| ECS 111: Introduction to Ecosystem Science (<i>Teaching assistant</i>) | 2020 |

WORK & RESEARCH EXPERIENCE

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|---|--|
| RAND Corporation (Santa Monica, CA) Adjunct Researcher, Engineering and Applied Sciences Division Summer Associate, Engineering and Applied Sciences Division | Sept 2023 – Present June – Aug 2023 |
| Washington State University Energy Program (Olympia, WA) Energy Policy Research Scientist | March 2021 – Present |
| Oak Ridge National Laboratory (Oak Ridge, TN) Engineering Intern, Building Envelope and Urban Systems Group | June – Aug 2019 |
| Stanford Woods Institute for the Environment (Stanford, CA) Climate Change Adaptation Policy Research Intern | June 2018 – June 2019 |
| Burn Design Lab (Seattle, WA) Mechanical Engineering Research and Development Intern | Sept 2017 – May 2018 |

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| Fundación Relevando Peligros (Córdoba, Argentina) Electrical Safety Policy Researcher | Aug – Sept 2017 |
| Stanford Sustainability Program (Stanford, CA) Sustainability Intern | June 2018 – June 2019 |
| Butte Medical Lab for Bioengineering and Immunology (Stanford, CA) Bioengineering Research Assistant | Jan – May 2015 |

PROFESSIONAL SERVICE

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| U.S. Fifth National Climate Assessment Complex Systems Chapter Chapter Author | Sept 2021 – Present |
| Miami Dade County Climate and Heat Health Task Force (Miami, FL) Task Force Member | Nov 2021 – May 2022 |
| Miami Climate Alliance (Miami, FL) Member | Sept 2020 – Present |
| Miami Resilient 305 Collaborative (Miami, FL) Science Advisor | Nov 2020 – Nov 2022 |
| Miami Heat-Health Messaging Campaign (Miami, FL) Science Advisor | Nov 2020 – May 2021 |
| CA Strategic Growth Council (Sacramento, CA) Climate Science Working Group Advisor | Aug 2020 – Aug 2021 |
| Greenaction for Health and Environmental Justice (San Francisco, CA) Volunteer Climate Justice Researcher | July – Nov 2017 |

INVITED TALKS

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| Global Council for Science and the Environment (<i>Workshop presenter</i>) Community engagement for actionable knowledge. Remote workshop. | 2023 |
| Rosenstiel School Climate Café Chat (<i>Speaker</i>) Searing, sweltering, stifling: How record-high temperatures and a marine heat wave baked South Florida this summer. Miami, FL. | 2023 |
| Cornell Environmental and Water Resource Engineering Seminar (<i>Speaker</i>) Multisector impacts and response opportunities to increasing extreme heat. Ithaca, NY. | 2022 |
| Institute for Journalism & Natural Resources (<i>Workshop presenter</i>) An introduction to extreme heat and adaptation science for journalists. Remote workshop. | 2022 |

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| Miller School of Medicine Dean Henri R. Ford's Interdisciplinary Seminar (<i>Speaker</i>) Inclusive design & climate change resilience: Establishing a beachhead with SE Florida's spinal cord injury community. Miami, FL. | 2022 |
| American Geophysical Union Conference (<i>Oral research presentation</i>) Societal preparedness for the multisector impacts of extreme heat. New Orleans, LA. | 2021 |
| Evergreen Elementary School (<i>Speaker</i>) ¿Qué es el cambio climático? Shelton, WA. | 2021 |
| City Government of Hallandale Beach (<i>Speaker</i>) Equitable adaptation to extreme heat and the urban heat island effect in a changing climate. Hallandale Beach, FL. | 2020 |
| Rosenstiel School Climate Café Chat (<i>Speaker</i>) Climate adaptation & COVID-19: Managing compound hazards. Miami, FL. | 2020 |

CONFERENCE PRESENTATIONS

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| American Geophysical Union Conference (<i>Oral presentation</i>) Multisector indoor heat risk in a chronically hot city. San Francisco, CA. | 2023 |
| MultiSector Dynamics Workshop (<i>Poster</i>) Multisector indoor heat risk in a chronically hot city. Davis, CA. | 2023 |
| University of Miami Climate and Health Symposium (<i>Poster by co-author</i>) Perspectives of Southeastern Floridians living with spinal cord injury (SCI): hurricane and associated flood preparedness and navigation. Miami, FL. | 2023 |
| International Transforming Evidence Network Conference (<i>Roundtable contributor</i>) The Science of Actionable Knowledge roundtable. Miami, FL. | 2022 |
| RSMAS Sea Secrets Series (<i>Speaker</i>) The energy-housing-built environment nexus under a changing climate. Miami, FL. | 2021 |
| American Geophysical Union Conference (<i>Oral presentation</i>) Risk screening methods for extreme heat: implications for equity-oriented adaptation. Remote conference. | 2020 |
| University of Washington Graduate Climate Conference (<i>Oral presentation</i>) Risk screening methods for extreme heat: implications for equity-oriented adaptation. Remote conference. | 2020 |
| Association for Environmental Studies and Sciences Conference (<i>Oral presentation</i>) Equitable adaptation to extreme heat in California. Remote conference. | 2020 |
| University of Miami Graduate Research Symposium (<i>Poster</i>) Equitable adaptation to extreme heat in California. Miami, FL. | 2020 |

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| Oak Ridge National Laboratory Research Symposium (<i>Poster</i>) Thermal performance with a whole-building conduction time-series profile. Oak Ridge, TN. | 2019 |
| Engineers in Technical and Humanitarian Opportunities of Service Conference (<i>Oral presentation</i>) The impact of cookstove combustion chamber geometry on the development of carbon monoxide and PM2.5. Bellevue, WA. | 2018 |

MEDIA INTERVIEWS

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| Sierra Club Magazine (<i>Article interview</i>). The Heat is On. Link | 2023 |
| News@TheU (<i>Article interview</i>). Researchers measure the dangers of indoor heat. Link | 2023 |
| Inside Carbon News (<i>Article interview</i>). Miami is Used to Heat, but Not Like This. Link | 2023 |
| Global Council on Science and the Environment and NASA Applied Sciences (<i>Video interview</i>). Science as Actionable Knowledge Video Series. Link | 2023 |
| Carbon Brief (<i>Article interview</i>). Unprecedented heat extremes ‘could occur in any region globally’. Link | 2023 |
| Scripps News (<i>TV interview</i>). Climate change and disability. | 2023 |
| Newswise (<i>Article interview</i>). Study aims to aid people in wheelchairs impacted by climate change. Link | 2022 |
| Miami New Times (<i>Article interview</i>). Hot Take: Experts Say Long-Range Forecast for Hotter South Florida May Be Optimistic. Link | 2022 |
| NBC Miami news segment (<i>TV interview</i>). Rising Temps Due to Climate Change Impact Maternal Health, Studies Show. Link | 2021 |

ORGANIZED EVENTS

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| California Economic Resilience Fund. (<i>Workshop series co-organizer</i>) Deliberative conversations in Kern County Workshop Series. Kern, CA. | 2023 |
| American Geophysical Union Conference. (<i>Convener</i>) MultiSector Dynamics: Urban System Interactions and Resilience. San Francisco, CA. | 2023 |
| Energy and Housing Justice in a Changing Climate. (<i>Panel moderator and organizer</i>) Panel speakers: Denise Abdul-Rahman, Sanya Carley, Khalil Shahyd. Miami, FL. | 2021 |
| Miami Climate Justice Activism. (<i>Panel co-organizer</i>) Speaker: Harriet A. Washington. Miami, FL. | 2021 |

Miami Climate Justice Leadership. (*Panel co-organizer*) 2021
Panel speakers: Dwight Bullard, Cheryl Holder, and Henri R. Ford. Miami, FL.

Cascading Disasters at the Intersection of Underserved Communities (*Panel co-organizer*) 2021
Panel speakers: Mayra Cruz, Santra Denis, and Valencia Gunter. Miami, FL.

PEER-REVIEW EXPERIENCE

Journals: Environment, Development & Sustainability; Environmental Science & Policy