

Kate Burrows, PhD MPH

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RESEARCH INTERESTS

Climate change and health, global health, mental health, mobility and migration, environmental justice, health disparities

PROFESSIONAL EXPERIENCE

University of Chicago, Chicago, Illinois, USA

Sep. 2023 *Assistant Professor*, Department of Public Health Sciences

Brown University, Providence, Rhode Island, USA

Aug. 2021 *Voss Postdoctoral Research Associate*, Institute at Brown for Environment and Society

American Museum of Natural History, New York, New York, USA

2016-2017 *Visiting Scientist*, Center for Conservation and Biodiversity

2015-2016 *Research Assistant*, Center for Conservation and Biodiversity

EDUCATION

Yale University, New Haven, Connecticut, USA

Ph.D., School of the Environment (formerly: Forestry and Environmental Studies), 2021

– *Dissertation Title*: Environmental Mobility and Mental Health in Indonesia

– *Advisor*: Michelle L. Bell

Columbia University, New York, New York, USA

M.P.H., Mailman School of Public Health (Climate Change and Health Program), 2016

– *Thesis Title*: Exploring the Climate Change, Migration, and Conflict Nexus

Columbia University, New York, New York, USA

B.A., Sustainable Development, 2013

PUBLICATIONS

Peer-Reviewed Journal Articles

13. Kim, H.*; Festa, N.*; **Burrows, K.**; Kim, D.C.; Gill, T. M.; Bell, M.L. (*In Press*). Is Residential Exposure to Oil Refineries a Novel Contextual Risk Factor for Coronary Heart Disease? *Environmental Research*.
12. **Burrows, K.***, Denckla, C. A.*, Hahn, J., Schiff, J. E., Okuzono, S. S., Randriamady, H., Mita, C., Kubzansky, L. D., Koenen, K. C., & Lowe, S. R. (2024). A systematic review of the effects of chronic, slow-onset climate change on mental health. *Nature Mental Health*, 1-16.
11. Tekin, S.; Lowe, S.R.; **Burrows, K.**; Billings, J. (2023). Trajectories of Post-Traumatic Stress Syndrome Among Hurricane Survivors. *European Journal of Psychotraumatology*, 14(2), 2211355.
10. **Burrows, K.**, Fong, K. C., Lowe, S. R., Fussell, E., & Bell, M. L. (2023). The impact of residential greenness on psychological distress among Hurricane Katrina survivors. *PLOS ONE*, 18(5), e0285510.
9. **Burrows, K.**, Anderson, G. B., Yan, M., Wilson, A., Sabath, M. B., Son, J. Y., Kim, H., Dominici, F., &

- Bell, M. L. (2023). Health disparities among older adults following tropical cyclone exposure in Florida. *Nature communications*, 14(1), 2221.
8. Chan, A.; **Burrows, K.**; Bell, M.L. (2022). Why they stayed and why they left. A case study from Ellicott City, MD after flash flooding. *International Journal of Environmental Research and Public Health*, 19(17), 10636.
 7. Kim, H.*; Festa, N.*; **Burrows, K.**; Kim, D.C.; Gill, T. M.; Bell, M.L. (2022). Stroke, Petroleum Production and Refining, Refineries, Stroke Belt, the Lower Mississippi River Basin. *Environmental Research Letters*, 17(9), 094018.
 6. **Burrows, K.**, Pelupessy, D. C., Khoshnood, K., & Bell, M. L. (2021). Environmental displacement and mental well-being in Banjarnegara, Indonesia. *Environmental Health Perspectives*, 129(11), 117002.
 5. **Burrows, K.**, Desai, M. U., Pelupessy, D. C., & Bell, M. L. (2021). Mental wellbeing following landslides and residential displacement in Indonesia. *SSM-Mental Health*, 1, 100016.
 4. **Burrows, K.**; Son, JY.; Bell, M. (2021). Do socioeconomic factors influence who is most likely to relocate after environmental disasters? A case study in Indonesia. *Sustainability*, 13(11), 6228.
 3. Sterling, E.; Ticktin, T.; Morgan, K.; Cullman, G.; Alvira, D.; Andrade, P.; Bergamini, N.; Betley, E.; **Burrows, K.**; et al. (2017). Culturally Grounded Indicators of Resilience in Social-Ecological Systems. *Environment and Society*, 8(1), 63-95.
 2. Sterling, E.; Filardi, C.; Newell, J.; Albert, S.; Alvira, D.; Bergamini, N.; Betley, E.; Blair, M.; Boseto, D.; **Burrows, K.** et al. (2017). Biocultural approaches to well-being and sustainability indicators across scales. *Nature Ecology & Evolution*, 1(12), 1798-1806.
 1. **Burrows, K.**, & Kinney, P. L. (2016). Exploring the climate change, migration and conflict nexus. *International Journal of Environmental Research and Public Health*, 13(4), 443.

Commentaries, Editorials, and Book Chapters

2. Clayton, S.; **Burrows, K.**; and Lowe, S.R. (Forthcoming). Climate Change and Mental Health. In *Handbook of Environmental Psychology*, edited by Iain Walker. Cheltenham, United Kingdom: Edward Elgar.
1. **Burrows, K.**; Fussell, E. (2022). A life course epidemiology approach to climate extremes and human health. *Lancet Planetary Health*. 6(7), e549- e550.

* Indicates joint first authorship.

CONFERENCE ACTIVITY

Oral Presentations

- Burrows, K.; Galea, S.; Nori-Sarma, A.; Nicholas, P.; Cooney, R. “Advancements in Climate Change and Mental Health Research.” Panel Discussion (chair) at 2024 Climate Change and Health CAFÉ RCC Annual Conference, Virtual Meeting.
- Burrows, K.; Yan, M.; Wilson, A.; Sabbath, B.; Son, J.; Kim, H.; Dominici, F.; Anderson, B.; Bell, M. “Health Disparities Among Older Adults following Tropical Cyclone Exposure in Florida, USA, 1999-2016”. Presented at 2022 American Meteorological Society, Virtual Meeting.
- Burrows, K; Pelupessy, D; Khoshnood, K; Bell, ML. The effect of displacement on the association between landslides and mental wellbeing. Presented at 2021 American Meteorological Society, Virtual Meeting.
- Burrows, K; Pelupessy, D; Khoshnood, K; Bell, ML. The "Hidden Burden" of Climate Change on Mental Health: Landslide-displacement in Indonesia. Presented at 2020 American Geophysical Union, Virtual Meeting.
- Burrows, K; Pelupessy, D; Khoshnood, K; Bell, ML. The Effect of Displacement on the Association Between Landslides and Mental Wellbeing. Presented at 2020 International Society of Environmental Epidemiology Annual Conference, Virtual Meeting.
- Burrows, K; Pelupessy, D; Khoshnood, K; Bell, ML. Increased risk among those left behind: Environmental

Mobility and Mental Wellbeing. Presented at 2020 Interdisciplinary Ph.D. Workshop in Sustainable Development, Columbia University, New York, NY, USA.

Burrows, K; Pelupessy, D; Desai, M; Bell, M. L. Landslides, Displacement, and Mental Wellbeing in Indonesia. Presented at 2020 American Meteorological Society, Boston, MA, USA.

Burrows, K; Pelupessy, D; Desai, M; Bell, M. L. Environmental Mobility as an Issue of Environmental Justice. Presented at 2019 Global Environmental Justice Conference. Yale University, New Haven, CT, USA.

Burrows, K; Pelupessy, D; Desai, M; Bell, M. L. Landslides, Displacement, and Mental Wellbeing. Presented at 2019 International Conference of Indigenous and Cultural Psychology Annual Conference, Yogyakarta, Indonesia.

Prabhu, M; Miraj, D; Burrows, K. Climate change, displacement, and mental health. Presented at 2018 RebPsych Conference (Rebellious Psychiatry: Where Mental Health Meets Social Justice), Yale University.

Poster Presentations

Burrows, K.; Fong, K. C.; Lowe, S. R.; Fussell, E.; Bell, M.L. “The Impact of Residential Greenness on Psychological Distress among Hurricane Katrina Survivors.” Poster presented at 2022 International Society of Environmental Epidemiology Annual Conference, Athens, Greece.

Burrows, K.; Yan, M.; Wilson, A.; Sabbath, B.; Son, J.; Kim, H.; Dominici, F.; Anderson, B.; Bell, M. “Health Disparities Among Older Adults following Tropical Cyclone Exposure in Florida, USA, 1999-2016”. Poster presented at 2021 International Society of Environmental Epidemiology Annual Conference, Virtual Meeting.

Burrows, K; Pelupessy, D; Desai, M; Bell, M. L. Landslides, Displacement, and Mental Health in Indonesia. Poster presented at 2019 International Society of Environmental Epidemiology Annual Conference, Utrecht, Netherlands.

Burrows, K; Son, J; Bell, M. L. Patterns of environmental displacement in Indonesia. Poster presented at 2018 International Society of Environmental Epidemiology Annual Conference, Ottawa, Canada. [*Presenter underlined.*]

INVITED SPEAKING ENGAGEMENTS AND GUEST LECTURES

“Assessing the Impacts of Temperature on Psychiatric Emergencies in Boston.” Lecture at the University of Cincinnati (School of Public Health, Department of Epidemiology). *Upcoming.*

“Climate Change, Migration, and Health Equity.” Lecture at Boston University (School of Public Health), February 2024.

“Climate Change as a Humanitarian Crisis.” Lecture at Yale University (School of Public Health), March 2023.

“Climate Change, Migration, and Health Equity.” Lecture at Boston University (School of Public Health), March 2023.

“Mixed Methods Approaches to Climate Change and Health” Lecture at Tulane University, (School of Public Health, Department of Environmental Health Sciences), January 2023.

“Mixed Methods Approaches to Climate-Related Health Disparities” Lecture at University of Michigan, (School of Public Health, Department of Epidemiology), January 2023.

“Climate Change, Social Justice, and Environmental Determinants of Mental Health” Lecture at Columbia University (School of Social Work), January 2023.

“Mixed Methods Approaches to Climate-Related Health Disparities” Lecture at University of California, Berkeley (School of Public Health, Division of Environmental Health Sciences), January 2023.

“Climate Change and Mental Health.” Lecture at Boston University (School of Public Health), November 2022.

“Climate and Weather-Driven Migration and Health.” Lecture at Brown University (Department of Earth, Environmental and Planetary Sciences), November 2022.

“Ecologies of Health.” Invited Panelist at Boston College (Department of Philosophy), February 2022.

“Climate Migration: Challenges for Health and Governance.” Invited Panelist at COP26 (United Nations

- Climate Change Conference of the Parties), November 2021.
- “Environmentally-driven Mobility, Conflict, and Health.” Lecture at Boston University (School of Public Health), November 2021.
- “Climate, Migration, and Health.” Panelist at the 16th Annual Summer Institute on Migration and Global Health at University of California Berkeley (the Health Initiative of the Americas), June 2021.
- “Climate Change, Migration, and Mental Health.” Lecture at University of Toronto (Department of Ethics, Society, and Law), March 2021.
- “Climate Change, Refugees, and Conflict.” Lecture at Boston University (School of Public Health), December 2020.
- “Assessing Exposure to Tropical Cyclones for Epidemiological Research: Existing Resources and Future Needs.” Invited Panel Discussant at the International Society of Environmental Epidemiology Annual Conference, August 2020.
- “Devising Post-Pandemic Rights-Based Approaches to Global Health & Gender.” Invited Panel Discussant at the Human Rights, the Sustainable Development Goals & the Law Symposium (Centre for International Sustainable Development Law), May 2020.

RESEARCH SUPPORT

- 2023 National Institutes of Health (R21), “Prevention of and Response to Incidents of Climate-Related Mental Health Emergencies in Vulnerable Communities [PRIME],” *co-I* (\$465,924)
- 2020 Yale Environmental Justice and Health Initiative (\$4,650)
- 2019 National Geographic Society Community Funds (\$1,000)
- 2019 National Geographic Society Young Explorer Grant (\$10,000)
- 2019 Yale Institute for Biospheric Studies (\$2,000)
- 2019 Yale Tropical Resources Institute (\$2,000)
- 2018 Yale MacMillan Center (\$5,000)
- 2018 Yale Council on Southeast Asian Studies (\$1,500)
- 2018 Yale Center for the Study of Race, Indigeneity, and Transnational Migration (\$1,000)
- 2017 Yale Tropical Resources Institute (\$4,000)

PENDING RESEARCH SUPPORT

- 2023 National Institutes of Health (P20) “Institute for Climate-Healthy Communities,” *MPI* (\$3,794,840)
- 2023 National Science Foundation (New Frontiers in Research Fund), “Heat and flood resilience in India, Africa, and Latin America: institutional and technological adaptation,” *co-PI* (\$699,758)

AWARDS

- 2021 **Dan David Prize Scholarship Award (Public Health)**, Dan David Foundation.
- 2021 **Best Student Presentation (Environment and Health)**, American Meteorological Society Conference, Virtual Meeting.
- 2020 **Best Student Presentation (Environment and Health)**, American Meteorological Society Conference, Boston, Massachusetts, USA.

TEACHING EXPERIENCE

Yale University, New Haven, Connecticut, USA

- 2021 Certificate in College Teaching Preparation, Poorvu Center for Teaching and Learning
- 2018-2020 *McDougal Teaching Fellow*, Yale Poorvu Center for Teaching and Learning
- 2018 *Teaching Fellow*, The Environment and Human Health, School of the Environment

2017, 2018 *Teaching Fellow*, Critical Issues in Global Health, School of Public Health
2017 *Teaching Fellow*, Environmental Epidemiology, School of Public Health

Columbia University, New York, New York, USA

2015 *Teaching Assistant*, Global and Development Perspectives, Policies, and Programs, Mailman School of Public Health

PROFESSIONAL SERVICE

International Society for Environmental Epidemiology, Herndon, Virginia, USA

2020-2024 *Committee Member*, Ethics and Philosophy Committee
2021-2022 *Committee Member*, International Scientific Committee
2020-2022 *Committee Member*, Student and New Researcher Network

National Geographic Society, Washington, D.C., USA

2020-2023 *Explorer Hub Coordinator & Co-Founder*, New England Regional Explorer's Hub

Yale University, New Haven, Connecticut, USA

2017-2020 *Student Leader*, Health and Environment at Yale
2018-2019 *Peer Mentor*, Women in Science at Yale
2018-2019 *Associate Member*, Climate Change and Health Initiative

PROFESSIONAL MEMBERSHIPS

International Society of Environmental Epidemiology
American Meteorological Society
American Public Health Association
American Geological Union

PEER-REVIEWING ACTIVITIES

Scientific Journals

Environmental Health Perspectives
Environmental Research
Environmental Science and Policy
JAMA Psychiatry
Lancet Planetary Health
Nature
Nature Mental Health
Population and Environment
Weather, Climate and Society

Grant Proposals

National Science Foundation (NSF)

Conference Abstracts

International Society of Environmental Epidemiology (2021, 2022, 2024)

STUDENT COMMITTEE MEMBERSHIPS

External Thesis Reader for Shaainee Ramnawaz (2024). “Daily variations in summer temperatures and emergency department visits for mental health outcomes in Ontario, Canada,” McGill University, Department of Epidemiology and Biostatistics. Advisors: Dr. Scott Andrew Weichenthal, Dr. Jura Augustinavicius.