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EMPLOYMENT

Research Scholar (2017 - present)
Center on Food Security and the Environment, Stanford University

Postdoctoral Scholar (2015 - 2017),
Department of Earth System Science, Stanford University

EDUCATION

Ph.D. in Agricultural & Resource Economics, University of California, Berkeley, 2015
B.A. in Statistics & Economics with Honors, University of California, Berkeley, 2007

PUBLICATIONS

Marshall Burke, Anne Driscoll, Sam Heft-Neal, Jenny Xue, Jennifer Burney, and Michael Wara. 2021. “The changing risk and burden of wildfire in the US”. *PNAS*, 118 (2). [paper link].

Eran Bendavid, Ties Boerma, Nadia Akseer, Ana Langer, Espoir Bwenge Malembaka, Emelda A. Okiro, Paul Wise, Sam Heft-Neal, Robert E. Black & Zulfiqar A. Bhutta. 2021. “The effects of armed conflict on the health of women and children”. *The Lancet*, 397 (10273). [paper link].

Sam Heft-Neal, Jen Burney, Eran Bendavid, Kara Voss & Marshall Burke. 2020. “Dust pollution from the Sahara and African infant mortality”. *Nature Sustainability*, 3 (10). [paper link].

Nathan Lo, Ribhav Gupta, David Addiss, Eran Bendavid, Sam Heft-Neal, Alexei Mikhailov, Antonio Montresor & Pamela Sabina Mbabazi. 2020. “Comparison of World Health Organization and Demographic and Health Survey data to estimate sub-national deworming coverage in pre-school children”. *PLOS Neglected Tropical Diseases*, 14 (8). [paper link].

Zachary Wagner, Sam Heft-Neal, Paul Wise, Robert Black, Marshall Burke, Ties Boerma, Zulfiqar Bhutta & Eran Bendavid. 2019. “Women and children living in areas of armed conflict in Africa: a geospatial analysis of mortality and orphanhood”. *The Lancet Global Health*, 7 (12). [paper link].

Nathan Lo, Sam Heft-Neal, Jean Coulibaly, Leslie Leonard, Eran Bendavid, & David Addiss. 2019. “State of deworming coverage and equity in low-income and middle-income countries using household health surveys: a spatiotemporal cross-sectional study”. *The Lancet Global Health*, 7 (11). [paper link].

Corey Bradshaw, Sarah Otto, Alicia Annamalay, Sam Heft-Neal, Zach Wagner, & Peter Le Souef. 2019. “Socio-economic and environmental determinants of child health among African nations”. *BMJ Open*, 9 (9). [paper link].

Zach Wagner, Sam Heft-Neal, Zulfiqar Bhutta, Robert Black, Marshall Burke, & Eran Bendavid. 2018. “Armed conflict and child mortality in Africa: a geospatial analysis”. *The Lancet*, 392 (10150). [paper link].

Sam Heft-Neal, Jennifer Burney, Eran Bendavid, & Marshall Burke. 2018. “Robust relationship between air quality and infant mortality in Africa”. *Nature*, 559 (7713). [paper link].

Marshall Burke, Felipe Gonzalez, Patrick Baylis, Sam Heft-Neal, Ceren Baysan, Sanjay Basu, & Solomon

Hsiang. 2018. “Rising temperatures increase suicide rates in the United States and Mexico”. *Nature Climate Change*, 8 (1). [paper link].

Nathan Lo, Jediah Snyder, David Addiss, Sam Heft-Neal, Jason Andrews, & Eran Bendavid. 2018. “Deworming in pre-school age children: A global empirical analysis of health outcomes”. *PLOS Neglected Tropical Diseases*, 12 (5). [paper link].

Sam Heft-Neal, Marshall Burke, & David Lobell. 2017. “Using remotely sensed surface temperature to estimate climate response functions”. *Environmental Research Letters*, 12 (1). [paper link].

Marshall Burke, Sam Heft-Neal, & Eran Bendavid. 2016. “Understanding variation in child mortality across Sub-Saharan Africa: A spatial analysis”. *The Lancet Global Health*, 4 (12). [paper link].

PAPERS IN PREPARATION, SUBMITTED, OR UNDER REVIEW

“A panel study of associations between wildfire smoke during pregnancy and risk of preterm birth in California (2006-2012)” (with Marshall Burke, Anne Driscoll, Wei Yang, & Gary Shaw) [*revise & resubmit*]

“Geographically-resolved estimation of the social cost of emissions from human activity” (with Geeta Persad, Jen Burney, Eran Bendavid, Jon Proctor, & Marshall Burke) [*submitted*]

“Early life stress moderates the association between fine particulate air pollution and adolescent structural brain development: A longitudinal tensor-based morphometry study” (with Jonas Miller, Emily Dennis, Booil Jo & Ian Gotlib) [*in prep*]

“Societal responses to wildfire smoke inferred from distributed sensors” (with Patrick Baylis, Marshall Burke, Jen Burney, Anne Driscoll, Jessica Li, Matthieu Stigler & Joakim Weill) [*in prep*]

“Weather shocks at birth and human capital accumulation: evidence from Peru” (with Manuel Barron & Tania Perez) [*in prep*]

“Magnitude and consequences of infiltration of ambient air pollution into home environments” (with Marshall Burke, Anne Driscoll, Jen Burney & others) [*in prep*]

“Environmental constraints on elite worker productivity: evidence from professional tennis” (with David Lobell, Marshall Burke, Vincent Tanutama, & Miyuki Hino) [*in prep*]

“The dynamics of weather, yields and deforestation: Evidence from soy in the Brazilian Amazon” (with Drew Behnke & Ryan Abman) [*in prep*]

FELLOWSHIPS AND AWARDS

Top 10 CRF Research Achievement Award 2019 (*for Heft-Neal et al 2018*)

National Science Foundation Graduate Research Fellowship 2011-2014

One Health Research Fellowship, University of California Global Health Institute, 2011

REFEREE SERVICE

Earth's Future, Environment and Development Economics, Environmental Research, Environmental Research Letters, Global Environmental Change, Journal of Peace Research, Lancet Planetary Health, Nature, Philosophical Transactions A, Scientific Reports

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