

# Nina Brooks

🌐 [www.ninarbrooks.com](http://www.ninarbrooks.com)    ✉️ [nbrooks@bu.edu](mailto:nbrooks@bu.edu)

## Academic Appointments

---

**Assistant Professor**, Department of Global Health, Boston University School of Public Health      July 2023-  
**Core Faculty Affiliate**, Human Capital Initiative (HCI), BU Global Development Policy Center  
**Faculty Affiliate**, Center for Climate Change and Health, BU School of Public Health  
**Faculty Affiliate**, Institute for Global Sustainability

**Assistant Professor**, School of Public Policy, University of Connecticut      2021-2023  
**Postdoctoral Associate**, Institute for Social Research & Data Innovation, University of Minnesota      2020-2021

## Education

---

**Ph.D. Environment and Resources, Stanford University**      2021  
**M.A. Economics, Stanford University**      2020  
**Masters of Public Policy, Sanford School of Public Policy, Duke University**      2014  
**B.A. Political Economy, University of California, Berkeley**      2009

## Publications

---

### Peer-reviewed Publications

**Brooks, N.**, Biswas, D., Maithel, S., Uddin, MR, Ahmed, S., Mazab, M., Miller, NG, Rahman, M., & Luby, S.P. (2024). "Building blocks of change: The energy, health, and climate co-benefits of more efficient brickmaking in Bangladesh." *Energy Research & Social Science*, 117(103738).

Eick, SM., Eatman, JA., Chandler, M., **Brooks, N.** (2024). "Reproductive and social policies, sociopolitical stress, and implications for maternal and child health equity." *Current Environmental Health Reports*, 1-9.

**Brooks, N.**, Gunther, M., Bendavid, E., Boyle, E., Grace, K. & Miller, G. (2023). "US Health Aid Policy and Family Planning in Sub-Saharan Africa." *Science Advances*, 9(49):eadk2684

**Brooks, N.**, Biswas, D., Rahman, R., Yu, A., Saha, S., & Luby, S.P. (2023). "Consequences of small-scale industrial pollution: Evidence from the brick sector in Bangladesh." *World Development*. 170(106318).

**Brooks, N.**, Grace, K., Kristiansen, D., Shukla, S., & Brown, M. (2023). "Investigating the Relationship Between Growing Season Quality and Childbearing Goals." *Global Environmental Change*. 80(102677).

Lee, J.\* , **Brooks, N.**, Tajwar, F.\* , Burke, M., Ermon, S., Lobell, D.B., Biswas, D., & Luby, S.P. (2021). "Scalable deep learning to identify brick kilns and aid regulatory capacity." *Proceedings of the National Academy of Sciences*. 118(17):e2018863118.

Media coverage: [BBC Digital Planet](#), [Dhaka Tribune](#)

**Brooks, N.**, Bendavid, E. & Miller, G. (2019). "United States Aid Policy and Induced Abortion in Sub-Saharan Africa: an Analysis of the Mexico City Policy." *Lancet Global Health*. 7:e1046-53.

Media coverage: [NPR](#), [The Guardian](#), [The New Republic](#), [Gizmodo](#), [The World](#)

Pattanayak, S.K., Jeuland, M.A., Lewis, J.J., Usmani, F., **Brooks, N.**, Bhojvaid,V., Kar, A., Morrison, L., Patange, O., Philippone, L., Ramanathan, N., Rehman, I.H., Thadani, R., Vora, M., Ramanathan, V. (2019). "Experimental evidence on promotion of improved electric and biomass cookstoves." *Proceedings of the National Academy of Sciences*. 116(27):13282-13287.

Hino, M., Benami, E. & **Brooks, N.** (October 2018). "Machine learning for environmental monitoring." *Nature Sustainability*. 1:583-588.

---

\*Student/Postdoc advisee

**Brooks, N.**, Bhojvaid, V., Jeuland, M.A., Lewis, J.J., Patange, O. & Pattanayak, S.K. (2016). “How much do clean cookstoves reduce biomass fuel use? Evidence from North India.” *Resource and Energy Economics*. 43(February 2016): 153-171.

Lewis, J.J., Bhojvaid, V. **Brooks, N.**, I. Das, MA Jeuland, O. Patange & SK Pattanayak (2015). “Piloting improved cookstoves in India.” *Journal of Health Communication*. 20: 28-42.

### *Under Review & In Preparation*

**Brooks, N.**, Biswas, D., Maithel, S., Uddin, MR, Ahmed, S., Mazab, M., Miller, NG, Rahman, M., & Luby, S.P. “Reducing emissions and improving energy efficiency in the brick manufacturing sector: evidence from a randomized controlled trial in Bangladesh.” *Revise & Resubmit at Science*

**Brooks, N.**, McMahan, K.\*, Tuholske, C., & Andam, K. (2024). “Extreme heat and women’s reproductive health in Nigeria.” *Revise & Resubmit at Proceedings of the National Academy of Sciences*

Zimmer, A. \*, Tuholske, C., **Brooks, N.**, & Gaughan, A. (2024). “A Fine-Grained Assessment of Urban Demographic Variability Worldwide.” *Revise & Resubmit at Nature Cities*

**Brooks, N.** & Zohar, T. (2024). “Out of Labor and into the Labor Force? The Role of Abortion Access, Social Stigma, and Financial Constraints.” *Revise & Resubmit at Journal of Political Economy*

Miller, G., Biswas, D., Mahajan, A. Babiarz, K., **Brooks, N.**, Brunner, J., Ashraf, S. et al. A Business Case for Human Rights at Work? Experimental Evidence on Labor Trafficking and Child Labor at Brick Kilns in Bangladesh. *Under review*

Grace, K., **Brooks, N.**, Merchant, E. & Mikal, J. “Considering the Demographic Transition and Climate Change from the Point of View of Care.” *In Preparation*

Tuholske, C., Ivanovich, C., Horton, R., Shukla, S., **Brooks, N.**, Andam, K., Williams, E., & Funk, C. “Evidence of Rapidly Increasing Dangerous Humid-Heat Risk in Africa’s Great Green Wall.” *In Preparation*

Optimizing windows to improve ventilation in Dhaka slums (with Stephen Luby, Peter Winch, Laura Kwong, Grant Miller, Pavani Ram, Fosiul Nizame, & Jenna Forsyth) *In Preparation*

### *Popular Press & Policy*

**Brooks, N.**, Bendavid, E. & Miller, G. “The Consequences of US Elections for Women’s Health Globally.” *BU SPH Viewpoint*, October 29, 2024,

<https://www.bu.edu/sph/news/articles/2024/consequences-of-us-elections-for-womens-health-globally/>

**Brooks, N.**, Kim, M., Boyle, E., Longhofer, W. “A Post-Roe World? Why Abortion Battles in America Won’t Halt Reform Abroad.” *Foreign Affairs*, June 16, 2022, <https://www.foreignaffairs.com/articles/united-states/2022-06-16/post-roe-world>

**Brooks, N.**, Bendavid, E. & Miller, G. “The unintended consequences of US global abortion policy.” *CNN*, July 3, 2019, <https://us.cnn.com/2019/07/03/opinions/us-global-abortion-policy-brooks-bendavid-miller/index.html>

### **Grants, Awards, & Fellowships**

---

#### *Current*

JPAL/King Climate Action Initiative (PI: Luby, Stephen) 11/2023 - 11/2025 (\$400,000). *Scaling Cleaner Brick Manufacturing in Bangladesh*. Role: Co-Investigator

80NSSC22K0470 (PI: Brooks, Nina) NASA Research Opportunities in Space and Earth Sciences 01/2022 - 03/2026 (\$304,086 direct costs; \$100,860 indirect costs). *A Remote Sensing Analysis of Heat Stress, LCLUC, and Women’s Health in Sub-Saharan Africa*. Role: PI

#### *Pending*

NovoNordisk Foundation Global Science Summit Programme (PI: Brooks, Nina) (7,000,000 DKK/\$1,000,000 USD). *Improving Brick Kiln Technology to Reduce Climate and Health Impacts*. Role: PI

1R21ES037064-01 (NIH-NIEHS) (PI: Willis, Mary) (\$275,000). *A Global Study of Oil and Gas Development, Environmental Justice, and Perinatal Health*. Role: Co-PI

### Completed

KCAI-21-00346 (PI: Luby, Stephen) JPAL/King Climate Action Initiative 09/2022 - 08/2023 (\$400,000). *Transforming Brick Manufacturing in Bangladesh to Promote Clean Air and Better Health*. Role: Co-Investigator

Start-Up Funding Competition (PI: Luby, Stephen) Stanford Impact Labs 02/2021 - 07/2023 (\$500,000) *Transforming Brick Manufacturing in Bangladesh to Promote Clean Air and Better Health*. Role: Co-Investigator

GR-1769 (PI: Luby, Stephen) JPAL/King Climate Action Initiative Pilot Funding 02/2020 - 06/2022 (\$75,000). *Transforming Brick Manufacturing in Bangladesh to Promote Clean Air and Better Health*. Role: Co-Investigator

Unorthodox Philanthropy (PI: Luby, Stephen) 2017-2020 (\$500,000). *Optimizing Ventilation to Improve Health*. Role: Co-Investigator

Stanford Shultz Graduate Student Research Fellowship (Co-PI: Zohar, Tom) 2018 - 2019 (\$21,000). *Out of Labor and into the Labor Force? The Role of Abortion Access, Social Stigma, and Financial Constraints*. Role: Co-PI

Stanford Freeman Spogli Institute Large Research Grant (Co-PI: Zohar, Tom) 2019 (\$4,740). *Out of Labor and into the Labor Force? The Role of Abortion Access, Social Stigma, and Financial Constraints*. Role: Co-PI

Stanford Graduate Research Opportunity Grant (Co-PI: Zohar, Tom) 2018 (\$5,700). *Out of Labor and into the Labor Force? The Role of Abortion Access, Social Stigma, and Financial Constraints*. Role: Co-PI

Stanford Sean N. Parker Center for Allergy and Asthma Research (PI: Luby, Stephen) 2017-2019 (\$160,000). *Health effects of brick manufacturing in Mirzapur*. Role: Co-Investigator

### Fellowships & Awards

Outstanding Service Award, UConn School of Public Policy	2023
King Center for Global Development Graduate Student Fellowship, Stanford University	2020-2021
Certificate of Achievement in Mentoring in the Stanford School of Earth, Energy & Environmental Sciences	2020
Outstanding Teaching Assistant Award, Stanford Economics Department	2019
Stanford Earth Dean's Fellow, Stanford University	2018-2020
David and Lucile Packard Foundation Fellow (SGF), Stanford University	2015-2018
University Scholars Fellowship, Duke University	2012-2014
Phi Beta Kappa, UC Berkeley	2009
Robert C. Byrd Scholarship, UC Berkeley	2005-2009

### Conferences & Invited Talks

<i>Extreme heat and women's reproductive health in Nigeria</i> (poster) American Geophysical Union (AGU) Annual Conference	2024
<i>Reducing Emissions and Air Pollution from the Informal Sector: Evidence from Bangladesh</i> American Geophysical Union (AGU) Annual Conference	2024
<i>Climate Mitigation with Health Co-Benefits From Efficient Brick Manufacturing in Bangladesh</i> Boston University Climate, Biogeoscience, and Health: Transformative Science to Real-World Action <sup>b</sup>	2024
<i>Reducing Emissions and Air Pollution from the Informal Sector: Evidence from Bangladesh</i> Boston University Human Capital Initiative Seminar <sup>b</sup>	2024
<i>Reducing Emissions and Air Pollution from the Informal Sector: Evidence from Bangladesh</i> Montana State University, Earth Sciences Seminar <sup>b</sup>	2024
<i>Reducing Emissions and Air Pollution from the Informal Sector: Evidence from Bangladesh</i> (poster) Health Effects Institute Annual Conference	2024

<i>Out of Labor and Into the Labor Market: An Evaluation of Israeli Abortion Subsidies</i> Society of Labor Economists Annual Conference	2023
<i>Extreme heat and women's reproductive health in Nigeria</i> UCSB Climate Hazards Center Early Career Webinar <sup>b</sup>	2023
<i>Extreme heat and women's reproductive health in Nigeria</i> Population Association of America Annual Conference	2023
<i>Extreme heat and women's reproductive health in Nigeria</i> Wittgenstein Centre Conference 2022 on Population and Climate Change	2022
<i>Impact of the 'Protecting Life in Global Health Assistance (PLGHA)' Policy on Health Service Delivery in sub-Saharan Africa</i> Population Association of America Annual Conference	2022
<i>Health and environmental effects of brick manufacturing in Mirzapur, Bangladesh</i> ASSA Virtual Annual Meeting 2022	2022
<i>Scalable deep learning to identify brick kilns and aid regulatory capacity</i> American Geophysical Union (AGU) Annual Conference <sup>b</sup>	2021
<i>Impact of the 'Protecting Life in Global Health Assistance (PLGHA)' Policy on Health Service Delivery in sub-Saharan Africa</i> IUSSP International Population Conference	2021
<i>Investigating the Relationship Between Seasonal Agricultural Variability and Childbearing Goals</i> IUSSP International Population Conference	2021
<i>How Does Seasonal Food Insecurity Impact Fertility?</i> Population Association of America Annual Conference	2021
<i>Health and environmental effects of brick manufacturing in Mirzapur, Bangladesh</i> The Fifth Annual (Virtual) Meeting of the Sustainable Energy Transitions Initiative	2020
<i>Health and environmental effects of brick manufacturing in Mirzapur, Bangladesh</i> Association of Environmental and Resource Economists Annual Conference <sup>c</sup>	2020
<i>Out of Labor and Into the Labor Market: An Evaluation of Israeli Abortion Subsidies</i> Willows Seminar Series, Harvard T.H. Chan School of Public Health <sup>b</sup>	2020
<i>Health and environmental effects of brick manufacturing in Mirzapur, Bangladesh</i> (poster) Stanford Center for Innovation in Global Health Research Convening	2020
<i>Health and environmental effects of brick manufacturing in Mirzapur, Bangladesh</i> Sustainability and Development Conference, University of Michigan	2019
<i>An Analysis of the Mexico City Policy</i> Global Gag Rule Research for Advocates, Open Society Foundations <sup>b</sup>	2019
<i>Abortion access, fertility, and female labor market participation in Israel</i> Institute for Religion, Economics and Society, Chapman University	2019
<i>Health and environmental effects of brick manufacturing in Mirzapur, Bangladesh</i> (poster) Planetary Health Alliance Conference, Stanford University	2019
<i>An Analysis of the Mexico City Policy</i> (poster) Stanford Center for Innovation in Global Health Research Convening	2018
<i>Do Clean Cookstoves Reduce Biomass Fuel Use</i> Triangle Area Cookstove Symposium, RTI International, Durham, NC	2014

<sup>b</sup>Invited talk<sup>c</sup>Canceled due to COVID-19

## Teaching

---

Quantitative Methods for Public Policy University of Connecticut	Spring 2023, Spring 2022
Environmental Studies Capstone University of Connecticut	Fall 2022
Introduction to Data Wrangling in R Summer Workshop University of Connecticut	Summer 2022

## Advising

---

Andy Zimmer, Postdoctoral Associate, Montana State University	2023-
Brooke Forde, MS Epidemiology, Stanford University	2022-

## Professional Activities and Service

---

Data Science Section Editor, *Current Environmental Health Reports* (2024–)

Referee: *PLOS One*, *Lancet Planetary Health*, *Population and Environment*, *Vienna Yearbook of Population Research, Demography*, *Climatic Change*, *Environmental Science and Pollution*, *Sexual and Reproductive Health Matters*, *Nature Energy*, *Journal of Development Economics*, *Energy for Sustainable Development*, *Journal of Health Communication*

Memberships: Population Association of America, American Economic Association, Association for Public Policy Analysis & Management, American Geological Union, International Union for the Scientific Study of Population, Association for Environmental Studies and Sciences

## Professional Experience

---

<b>NORC at the University of Chicago</b> Senior Research Analyst, International Programs	Bethesda, MD 2014-2015
<b>Global Footprint Network</b> Manager, External Affairs	Oakland, CA 2009-2012

## Additional Information

---

Software: Stata, R, GitHub/Git,  $\LaTeX$

Field Research Experience: Bangladesh, India, Tanzania, Philippines

Last updated: November 2024