

Ishan Brownell Nath

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CURRENT EMPLOYMENT AND AFFILIATIONS

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| Harvard Kennedy School | |
| Assistant Professor of Public Policy | 2025 – |
| Faculty Associate, Salata Institute for Climate and Sustainability | 2025 – |
| Faculty Fellow, Harvard Environmental Economics Program | 2025 – |
| Faculty Affiliate, Harvard Center for International Development | 2025 – |
| Associate Editor, <i>Journal of International Economics</i> | 2023 – |
| Research Affiliate, International Growth Centre | 2025 – |

PREVIOUS EMPLOYMENT AND EDUCATION

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|---|-------------|
| Federal Reserve Bank of San Francisco | |
| Economist | 2022 – 2025 |
| Visiting Scholar | Summer 2021 |
| Princeton University | |
| Postdoctoral Fellow – International Economics Section | 2021 – 2022 |
| University of Chicago | |
| Postdoctoral Scholar (pre-job market) – Economics, EPIC, and Climate Impact Lab | 2019 – 2021 |
| PhD in Economics | 2014 – 2019 |
| Oxford University | |
| MPhil in Economics | 2012 – 2014 |
| Stanford University | |
| B.A. in Economics, B.S. in Earth Systems (with Honors & Distinction) | 2008 – 2012 |

PUBLISHED AND ACCEPTED PAPERS

“Do Renewable Portfolio Standards Deliver Cost-Effective Carbon Abatement?” (with Michael Greenstone)
Conditionally accepted at the *Journal of Political Economy: Microeconomics*

“Estimating the Global Impact of Climate Change on Staple Crops Accounting for Adaptation,” with Andrew Hultgren, Tamma Carleton, Michael Delgado, Diana Gergel, Michael Greenstone, Trevor Houser, Solomon Hsiang, Amir Jina, Robert Kopp, Steven Malevich, Kelly McCusker, Terin Mayer, James Rising, Ashwin Rode, and Jiacan Yuan, *Nature* 632(8068), p. 644-652, 2025.

“Climate Change, the Food Problem, and the Challenge of Adaptation through Sectoral Reallocation.” *Journal of Political Economy* 133(6), p. 1705-1756, 2025. (Lead Article).

“Private Markets and Public Assistance for Natural Disaster Supplies,” with Michael Dinerstein, Nadia Lucas, and Johanna Rayl, *AEA Papers and Proceedings* 115, p. 385-390, 2025.

“Is the World Running Out of Fresh Water?” with Tamma Carleton and Levi Crews, *AEA Papers and Proceedings* 114, p. 31-35, 2024.

“A Global View of Creative Destruction,” with Chang-Tai Hsieh and Pete Klenow, *Journal of Political Economy: Macroeconomics* 1(2), p. 243-275, 2023.

“Valuing the Global Mortality Consequences of Climate Change Accounting for Adaptation Costs and Benefits,” with Tamma Carleton, Amir Jina, Michael Delgado, Michael Greenstone, Trevor Houser, Solomon Hsiang, Andrew Hultgren, Robert Kopp, Kelly McCusker, Ishan Nath, James Rising, Ashwin Rode, Hee Kwon Seo, Arvid Viaene, Jiacan Yuan, and Alice Tianbo Zhang, *Quarterly Journal of Economics* 137(4), p. 2037-2105, 2022.

“Estimating a social cost of carbon for global energy consumption,” with Ashwin Rode, Tamma Carleton, Michael Delgado, Michael Greenstone, Trevor Houser, Solomon Hsiang, Andrew Hultgren, Amir Jina, Robert Kopp, Kelly McCusker, Ishan Nath, James Rising, and Jiacan Yuan. *Nature* 598(7880), p. 308-314, 2021.

WORKING PAPERS

“Agriculture, Trade, and the Spatial Efficiency of Global Water Use” (with Tamma Carleton and Levi Crews)

“How Much Will Global Warming Cool Global Growth?” (with Pete Klenow and Valerie Ramey)

Revise-and-resubmit at the *American Economic Review*

“Is Workplace Temperature a Valuable Job Amenity? Implications for Climate Change” (with Ashwin Rode, Rachel Baker, Tamma Carleton, Anthony D’Agostino, Michael Delgado, Timothy Foreman, Diana Gergel, Michael Greenstone, Trevor Houser, Solomon Hsiang, Andrew Hultgren, Amir Jina, Robert Kopp, Steven Malevich, Kelly McCusker, Matthew Pecenco, James Rising, and Jiacan Yuan)

Revise-and-resubmit at the *Journal of Political Economy*

“The Welfare Economics of a Data-Driven Social Cost of Carbon” (with Kelly McCusker, Ian Bolliger, Tamma Carleton, Michael Delgado, Michael Greenstone, Trevor Houser, Solomon Hsiang, Andrew Hultgren, Amir Jina, Robert Kopp, James Rising, Ashwin Rode)

“The Local Damages from Global Climate Change” (with Tamma Carleton, Michael Greenstone, Solomon Hsiang, Andrew Hultgren, Robert Kopp, Kelly McCusker, James Rising, and Ashwin Rode)

WORK-IN-PROGRESS

“The Effects and Effectiveness of Emergency Price Controls During Natural Disasters” (with Michael Dinerstein, Nadia Lucas, and Johanna Rayl)

“Trade Policy and Food Security with Climate and Geopolitical Risk” (with Levi Crews, Alice Schmitz, and Stephanie Stewart)

“Does Eating Local Reduce Emissions?” (with Levi Crews, Peter O’Brien, Milan Quentel, and Jay Sayre)

“Agriculture and the Gains from Trade” (with Levi Crews and Sam Kortum)

“Climate Change, Climate Policy, and Trade” – chapter in the *Handbook of Climate Change Economics, Volume 2* (with Farid Farrokhi and Sam Kortum)

POLICY PUBLICATIONS

“Are Water Resources Keeping Up With U.S. Economic Needs?” (with Cheikh Fall and Christian Hilgemann). *Federal Reserve Bank of San Francisco Economic Letter*, 2024.

“Put a Price on It: The How and Why of Pricing Carbon.” (with Michael Greenstone). Book Chapter in *U.S. Energy & Climate Roadmap: Evidence-based Policies for Effective Action*, Energy Policy Institute at the University of Chicago, 2021.

“Fueling Technology Deployment with a Clean Electricity Standard.” (with Michael Greenstone). Book Chapter in *U.S. Energy & Climate Roadmap: Evidence-based Policies for Effective Action*, Energy Policy Institute at the University of Chicago, 2021.

“Economic Perspectives on Liability & Insurance.” *National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling Staff Working Paper*, 2011.

AWARDS

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| Rhodes Scholarship | 2012 |
| John G. Sobieski Undergraduate Thesis Award for Creative Thinking in Economics | 2012 |
| Stanford School of Earth Sciences Dean’s Award for Undergraduate Academic Achievement | 2012 |
| Harry S. Truman Scholarship | 2011 |
| Morris K. Udall Scholarship | 2011 |

OTHER ACTIVITIES AND PREVIOUS EMPLOYMENT

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| Researcher, Climate Impact Lab | 2015 – |
| Technical Contributor, U.S. National Climate Assessment | 2022 |
| Consultant, The World Bank | 2022 |
| Consultant, Open Philanthropy Project | 2021 – 2022 |
| U.S. Census Bureau, Special Sworn Status | 2016 – 2024 |
| Research Assistant, EPIC India, New Delhi | 2016 |
| Research Assistant to Chang-Tai Hsieh, University of Chicago | 2015 – 2016 |
| Research Assistant to Michael Greenstone, MIT | 2012 – 2013 |
| Research Assistant to Melissa Dell, Harvard University | 2012 – 2013 |
| Intern – United States Department of the Treasury, Economic Policy Office | 2012 |
| Consultant – Environmental Defense Fund | 2012 |
| Intern – White House Office of the Vice President, Economic Policy Office | 2011 |
| Research Assistant to Lawrence Goulder, Stanford University | 2011 |
| Senior Consultant – National Commission on the BP Deepwater Horizon Oil Spill | 2010 |
| Intern – The Carter Center | 2010 |
| 7 th Grade Environmental Science Teacher – Breakthrough Collaborative | 2009 |

TEACHING EXPERIENCE

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| Teaching Assistant | |
| Graduate Public Finance / Energy & Environmental Economics (for Michael Greenstone) | 2017 |
| Graduate Public Finance (for Owen Zidar, Eric Zwick, Seth Zimmerman, & Neale Mahoney) | 2017 |
| Undergraduate “Global Energy & Climate Challenge” (for Michael Greenstone & John Deutch) | 2017 |
| Undergraduate “Economics for Everyone” (for Steve Levitt & John List) | 2017 |
| PhD Committee Service | |
| Jeffrey Sun (Princeton, 2024); | |

PROFESSIONAL SERVICE

Referee: *Econometrica*, *Journal of Political Economy*, *Quarterly Journal of Economics*, *American Economic Review*, *Review of Economic Studies*, *American Economic Review: Insights*, *American Economic Journal: Economic Policy*, *American Economic Journal: Applied Economics*, *Review of Economics and Statistics*, *Journal of Political Economy: Microeconomics*, *Journal of International Economics*, *Journal of Public Economics*, *Journal of Development Economics*, *Environment and Development Economics*, *Journal of Econometrics*, *Quantitative Economics*, *Journal of the Association of Environmental and Resource Economists*, *Journal of Environmental Economics and Management*, *Review of Economic Dynamics*, *Journal of the European Economic Association*, *Science*, *Nature Climate Change*, *Nature Communications*, *Proceedings of the National Academy of Sciences*, *Climate and Development*, *Agricultural and Food Economics*, *Earth’s Future*, *The Energy Journal*, *Resource and Energy Economics*, *Weather, Climate, & Society*, *IZA World of Labor*, *Land Economics*, *Journal of Environmental Studies and Sciences*, *The Lancet Planetary Health*, *Journal of Benefit-Cost Analysis*, *Economics Letters*, *World Economy*, *Economic Inquiry*, *American Journal of Agricultural Economics*, *International Economic Review*

Grant Reviewer: National Science Foundation, CEPR PEDL, Leibniz Competition

Conference Organizing: (Current) CEPR Virtual Seminar on Climate Economics Organizing Committee, 2025-2027 Program Committee Member for AERE at the ASSA (Association of Environmental and Resource Economists), 2025 ASSA Water Economics Session Chair, 2023 European Meeting of the Econometric Society Programme Committee, 2023 LSE Environment Week Organizing Committee

External Expert Reviewer: Congressional Budget Office, Environmental Protection Agency

SEMINAR AND CONFERENCE PRESENTATIONS (including scheduled)

- 2025:** University of Missouri, University of Toronto, University of Pennsylvania, HKS Lunch on International Economic Policy, Yale Cowles Conference on International Trade, Coase Project Conference, Society for Economic Dynamics Annual Meeting (Copenhagen), World Bank / Santa Fe Institute Workshop, GTAP Climate and Growth Virtual Meeting, Columbia Global Dialogue Club (Panelist)
- 2024:** University of Michigan; Harvard Kennedy School; MIT Econ; Columbia Econ; UC Davis Econ (Macro/International); Princeton (Macro); Harvard Econ (joint Trade/Macro); UCLA Econ (Trade Mini Conference); UC Berkeley (Macro Lunch); Harvard Salata Institute Conference on Macro & Climate Change; IMF Revisiting Climate Damages Conference; IMF Seminar (Structural Reforms & Climate Division); Harvard Center for History and Economics Climate Change Conference; ASSA Meetings; EPA / Society for Benefit-Cost Analysis Workshop on Social Cost of Greenhouse Gases; TRAIN (Trade) Workshop; University of Colorado Boulder (Guest Lecture); University of British Columbia (Guest Lecture); Stanford Doerr School (Guest Lecture);
- 2023:** NBER SI Energy & Environment; NBER SI Economic Growth; UC Berkeley Econ (Trade); UC Berkeley ARE (joint with UC Davis); Harvard Econ (Macro, *cancelled due to family emergency*), University of British Columbia (Guest Lecture, Land & Food Systems Seminar); University of Southern California (Development); World Bank (Macro/Trade); IMF Seminar; Stanford Energy & Environment Workshop; Coase Project Conference (Spring & Fall, Overview Lecture on Macro and Climate Change); E-Axes Young Scholars Webinar on Climate Finance & Economics; IGC Uganda Workshop on Climate Change, Environment, & Agriculture (in Kampala); Yale Conference on the Future of Economic Growth in the Climate Transition (Panelist); NBER Distributional Impacts of Climate Change in Agriculture (Discussant); Penn State New Faces in International Trade Conference (Discussant); Stanford Preparing for a Changing Climate Conference (Discussant); Peking University Sargent Institute Workshop on Quantitative Economics and Finance (Discussant); Yale School of Environment (Guest Lecture); BU Questrom (Guest Lecture)
- 2022:** NBER Energy & Environment Spring Meeting; UC Berkeley ARE; University of Toronto; LSE Environment Week; CAF Latin American Development Bank; Hitotsubashi University; SED (Society for Economic Dynamics) Climate Macro Session; BFI Macro Finance Research Program Confronting Uncertainty in Climate Change Conference; Coase Project Conference (Spring & Fall); GTAP Annual Conference on Global Economic Analysis; Princeton (Macro Lunch); Princeton (Junior Informal Labor); Fed Junior Applied Micro Group; UPenn Development Research Initiative Conference on Climate Change; Griffon Applied Economics Climate Change Conference; NYU Institute for Policy Integrity Justice40 and Equitable Deep Decarbonization Workshop; Latin American and Caribbean Economic Association (LACEA) Annual Meeting; Kearney Sustainability in Action Summit; NBER International Trade and Investment Summer Institute (Discussant); Online Spatial and Urban Seminar (Discussant)
- 2021:** NBER Risks in Agricultural Supply Chains; NBER SI Energy & Environment (Egg-Timer); Federal Reserve Bank of San Francisco; Federal Reserve Bank of New York; Federal Reserve Board of Governors; Federal Reserve Bank of Dallas; University of British Columbia (VSE); Princeton (Trade); Princeton (Junior Informal Labor Group); UPenn Wharton; Cornell Dyson; University of Illinois Center for Climate, Regional, Environmental, and Trade Economics; Federal Reserve Bank of San Francisco Virtual Climate Seminar; Online Summer Workshop in Energy, Environment, and Transportation (OSWEET); Virtual Workshop on Trade, Spatial Economics, and the Environment; World Bank Sustainable Development Group; RIDGE Workshop on Trade, Growth, & Development; Center for Strategic and International Studies Energy Futures Forum; University of Maryland AREC (Guest Lecture); Society for Financial Studies Cavalcade (Discussant); Western Economics Association International Conference (Discussant); IMF Macro-Climate Conference (Discussant)

2020: NBER Agricultural Markets & Trade Policy; UCLA Climate Adaptation Conference; UC Berkeley & Peterson Institute Conference on Macro & Trade; UChicago Becker Applied; UChicago Development
2019: NBER SI Energy & Environment (Egg-Timer); Columbia University Young Economists Symposium; University of Chicago EPIC Lunch
Prior: University of Chicago Development Lunch, Student Applied Micro Lunch, and Energy and Environment Lunch and Learn; Delhi University St. Stephen's College; Stanford Earth Sciences

PERSONAL

SPOUSE: Julia Brownell Nath; **CHILD:** Ellis Brownell Nath, born 2022