

# Ishan Brownell Nath

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## EMPLOYMENT

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|   |             |
|---|-------------|
| Princeton University  | 2021 – 2022 |
| Postdoctoral Fellow – International Economics Section   |             |
| Federal Reserve Bank of San Francisco   |             |
| Economist   | 2022 –      |
| Visiting Scholar  | Summer 2021 |
| University of Chicago   | 2019 – 2021 |
| Postdoctoral Scholar (pre-job market) – Department of Economics,<br>Energy Policy Institute, and Climate Impact Lab |             |

## EDUCATION

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|  |             |
|--|-------------|
| University of Chicago  | 2014 – 2019 |
| PhD in Economics   |             |
| Dissertation Committee:  |             |
| Michael Greenstone (Chair, <a href="mailto:mgreenst@uchicago.edu">mgreenst@uchicago.edu</a> ), |             |
| Chang-Tai Hsieh ( <a href="mailto:chsieh@chicagobooth.edu">chsieh@chicagobooth.edu</a> )       |             |
| Pete Klenow ( <a href="mailto:klenow@stanford.edu">klenow@stanford.edu</a> )                   |             |
| Oxford University  | 2012 – 2014 |
| MPhil in Economics   |             |
| Stanford University  | 2008 – 2012 |
| B.A. in Economics (with Honors & Distinction)  |             |
| B.S. in Earth Systems, Energy Science & Technology Track (with Distinction)                    |             |

## WORKING PAPERS

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“Climate Change, the Food Problem, and the Challenge of Adaptation through Sectoral Reallocation” – earlier version as *NBER Working Paper 27297*

“A Global View of Creative Destruction,” (with Chang-Tai Hsieh and Pete Klenow) - *NBER Working Paper 26461*

“Valuing the Global Mortality Consequences of Climate Change Accounting for Adaptation Costs and Benefits,” (with the Climate Impact Lab) – *NBER Working Paper 27599*  
(Revise-and-Resubmit at the *Quarterly Journal of Economics*)

“Do Renewable Portfolio Standards Deliver Cost-Effective Carbon Abatement?” (with Michael Greenstone)

“Will the ‘Corn Belt’ Persist? The Optimizing Farmer and the Welfare Consequences of Climate Change” (with Michael Greenstone and Arvid Viaene)

“Estimating the Global Impact of Climate Change on Staple Crops Accounting for Adaptation” (with the Climate Impact Lab)

## WORK-IN-PROGRESS

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“The Welfare Economics of a Data-Driven Social Cost of Carbon” (with the Climate Impact Lab)

“The Spatial (In)efficiency of Global Water Use” (with Tamma Carleton and Levi Crews)

“Does Climate Change Have Long-Run Growth Effects?” (with Pete Klenow and Valerie Ramey)

“How do Emergency Price Controls Affect Consumers? Theory and Evidence from U.S. Natural Disasters” (with Nadia Lucas, Johanna Rayl, and Becky Scurlock)

“The Impact of Competitive Bidding Platforms on Market Power, Prices, and Welfare in Indian Agricultural Markets” (with Michael Dinerstein, Vishan Nigam, and Prasanta Kumar Swain)

“Does Eating Local Reduce Emissions?” (with Levi Crews)

“Labor Supply in a Warmer World: The Impact of Climate Change on the Global Workforce” (with the Climate Impact Lab)

## **PUBLICATIONS**

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Rode, Ashwin, 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.

“Estimating a social cost of carbon for global energy consumption.” *Nature* 598, 308-314 (2021).

(First author listed out of alphabetical order to indicate project leadership)

## **POLICY PUBLICATIONS**

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“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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|   |      |
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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 |

## **PREVIOUS EMPLOYMENT**

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| Graduate Student Researcher, Climate Impact Lab                                  | 2015 – 2019 |
| 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 <sup>th</sup> Grade Environmental Science Teacher – Breakthrough Collaborative | 2009        |

## **TEACHING EXPERIENCE**

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| Teaching Assistant for Michael Greenstone                          | Winter 2017; Fall 2017 |
| Graduate Public Finance II / Energy and Environmental Economics II |                        |

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| Teaching Assistant for Owen Zidar, Eric Zwick, Seth Zimmerman, and Neale Mahoney<br>Graduate Public Finance III – “New Developments in Public Finance” | Spring 2017 |
| Teaching Assistant for Michael Greenstone and John Deutch<br>Undergraduate “The Global Energy & Climate Challenge”                                     | Fall 2017   |
| Teaching Assistant for Steven Levitt and John List<br>Undergraduate “Economics for Everyone”   | Spring 2017 |

## PROFESSIONAL SERVICE

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Referee: *Econometrica*, *Journal of Political Economy*, *American Economic Review: Insights*, *Journal of International Economics*, *Journal of Public Economics*, *Environment and Development Economics*, *Journal of Econometrics*, *Quantitative Economics*, *Proceedings of the National Academy of Sciences*, *Climate and Development*, *Earth's Future*, *The Energy Journal*, *IZA World of Labor*

## SEMINAR AND CONFERENCE PRESENTATIONS (including scheduled)

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- 2021:** 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; Princeton (International 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; NBER Risks in Agricultural Supply Chains; NBER Energy & Environment Summer Institute Egg-Timer; 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 International Trade/Growth and Development in Macroeconomics; Center for Strategic and International Studies Energy Futures Forum; University of Maryland AREC (Course Guest Lecture); Society for Financial Studies Cavalcade (Discussant); Western Economics Association International Conference (Discussant); IMF Climate Related Natural Disasters: Macroeconomic Effects and Policy Responses (Discussant)
- 2020:** NBER Agricultural Markets and Trade Policy; UCLA Climate Adaptation Research Symposium; UC Berkeley Clausen Center & Peterson Institute for International Economics Conference on Macroeconomic Implications of Trade Policies; University of Chicago Becker Applied Economics Seminar; University of Chicago Development Lunch
- 2019:** NBER Energy & Environment Summer Institute 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 University School of Earth Sciences