

AMIR SULTAN JINA

e: amirjina@uchicago.edu w: www.amirjina.com a: 1307 E. 60th St., Chicago, IL 60637

Professional Experience:

2017 - present Assistant Professor, Harris School of Public Policy, University of Chicago
2014 - 2017 Postdoctoral Scholar, Economics Department, University of Chicago
2013 - 2014 Researcher, UC Berkeley & Risky Business Initiative

Affiliations:

2018 - Faculty Research Fellow, National Bureau of Economic Research
2017 - Faculty Affiliate, Climate Impact Lab
2017 - Faculty Affiliate, Energy Policy Institute at University of Chicago
2016 - Beijer Young Scholar (2nd cohort), Beijer Institute, Stockholm University
2016 Fellow, Global Future Council on Environment, World Economic Forum
2015 - Research Affiliate, Urban Energy & Environment Lab, University of Chicago

Education:

2014 Ph.D. Sustainable Development, Columbia University
2013 M.Phil., M.A. Sustainable Development, Columbia University
2009 M.A. Climate and Society, Columbia University
2006 B.A.(Mod) Mathematics (First class honours), Trinity College Dublin

Research:

- "Up in smoke: California's greenhouse gas reductions could be wiped out by 2020 wildfires." (with Michael Jerrett and Miriam E. Marlier). *Environmental Pollution* 310 (2022): 119888.
- "Valuing the global mortality consequences of climate change accounting for adaptation costs and benefits." (with Tamma A. Carleton, Michael T. Delgado, Michael Greenstone, Trevor Houser, Solomon M. Hsiang, Andrew Hultgren, Robert E. Kopp, Kelly E. McCusker, Ishan B. Nath, James Rising, Ashwin Rode, Hee Kwon Seo, Arvid Viaene, Jiacan Yuan, Alice Tianbo Zhang), *The Quarterly Journal of Economics* 137, no. 4 (2022): 2037-2105. ([link](#))
- "The Social Cost of Global Energy Consumption due to Climate Change" (with A. Rode, T. Carleton, M. Delgado, M. Greenstone, T. Houser, S. Hsiang, A. Hultgren, R. Kopp, K. McCusker, I. Nath, J. Rising, J. Simcock, J. Yuan). *Nature*. 598: 308-314. 2021. ([link](#))
- "ENSO impacts child undernutrition in the global tropics" (with J.K. Anttila-Hughes and G.C. McCord). *Nature Communications*. 12(5785). 2021. ([link](#))
- "Inequality and the Biosphere." (with Beijer Young Scholars) *Annual Review of Environment and Resources*. 43 (2018): 61-83. ([link](#))
- "Estimating economic damage from climate change in the United States." (with S. Hsiang, R. Kopp, J. Rising, M. Delgado, S. Mohan, DJ Rasmussen, R. Muir-Wood, P. Wilson, M. Oppenheimer, K. Larsen, and T. Houser). *Science*. 356(6345): 1362-1369. 2017. ([link](#))
- "Extreme air pollution in global megacities." (with M.E. Marlier, R.S. DeFries, and P.L. Kinney) *Current Climate Change Reports*. 2(1): 15-27. 2016. ([link](#))
- "Satellites, Self-reports, and Submersion: Exposure to Floods in Bangladesh." (with R.P. Guiteras, and A.M. Mobarak) *American Economic Review: Papers and Proceedings*. 105(5): 232-36. 2015. ([link](#))
- "Geography, Depreciation, and Growth." (with S.M. Hsiang) *American Economic Review: Papers and Proceedings*. 105(5): 252-56. 2015. ([link](#))
- "The Causal Effect of Environmental Catastrophe on Long-Run Economic Growth: Evidence from 6,700 cyclones." (with S.M. Hsiang) NBER working paper no. 20352. 2014. *Revise & Resubmit, Journal of Political Economy* ([link](#))

- “Economic Risks of Climate Change: An American Prospectus.” (with T. Houser, S. Hsiang, R. Kopp, M. Delgado, K. Larsen, M. Mastrandrea, S. Mohan, R. Muir-Wood, DJ Rasmussen, J. Rising, and P. Wilson), *Columbia University Press*. 2015. ([link](#))
- “Smallholder farmer cropping decisions related to climate variability across multiple regions.” (with S. Wood, M. Jain, R.S. DeFries, and P. Kristjanson), *Global Environmental Change*. 25, 163–172. 2014. ([link](#))
- “Biophysical and Socioeconomic Factors Associated with Forest Transitions at Multiple Spatial and Temporal Scales.” (with M. Jain, C.B. Yackulic, M. Fagan, Y. Lim, M. Marlier, R. Muscarella, P. Adame, R.S. DeFries, M. Uriarte), *Ecology and Society*. 16(3). 2011. ([link](#))

Selected Ongoing Research:

- “The value of forecasts: Experimental evidence from developing country agriculture” (with Fiona Burlig, Faraz Hayat, Erin Kelley, Greg Lane, Harshil Sahai), accepted via pre-results review at *Journal of Development Economics*.
- “Backfiring peer effects in environmental policy: Experimental evidence from waste management in India.” (with Kenneth Lee, Seunghoon Lee, Anant Sudarshan). *In preparation*.
- “Experimentally assessing cool roofs in low-income developing country community” (with Anna Agarwal, Michael Greenstone, and Anant Sudarshan). *In preparation*.
- “Temperature variability changes due to climate change alter magnitude and distribution of climate impacts.” (with Kevin Schwarzwald, Matz Haugen, Elisabeth Moyer, Michael Stein). *In preparation*.
- “Labor Disutility in a Warmer World: The Impact of Climate Change on the Global Workforce” (with A. Rode, R.E. Baker, T. Carleton, A.L. D’Agostino, M. Delgado, T. Foreman, M. Greenstone, T. Houser, S. Hsiang, A. Hultgren, R. Kopp, K. McCusker, I. Nath, M. Pecenco, J. Rising, J. Yuan)
- “Estimating Global Agricultural Impacts of Climate Change Accounting for Adaptation” (with A. Hultgren, T. Carleton, M. Delgado, D. Gergel, M. Greenstone, T. Houser, S. Hsiang, R. Kopp, K. McCusker, S.B. Malevich, T. Mayer, I. Nath, J. Rising, A. Rode J. Yuan)
- “The origin and fate of marine plastic pollution” (with Kimberly Oremus, Anna Papp, Nandini Ramesh)
- “The Social Cost of Locusts” (with Eyal Frank, Josephine Gatois, Evelina Linnros, Gordon McCord, Anouch Missirian, Anna Tompsett)
- “The Long-term Impacts of Flooding on Human Capital Formation in Bangladesh” (with R. Guiteras and A.M. Mobarak)

Professional Activities & Service:

Refereeing: *American Economic Journal: Applied Economics*; *American Economic Journal: Economic Policy*; *American Economic Review*; *American Economic Review: Insights*; *China Economic Review*; *Climate Change Economics*; *Climatic Change*; *Ecological Economics*; *Demography*; *Economic Development and Cultural Change*; *Economic Journal*; *Environment and Development Economics*; *Environmental and Resources Economics*; *Global Environmental Policy*; *IZA World of Labor*; *Journal of the Association of Environmental and Resource Economics*; *Journal of Development Economics*; *Journal of Economic Growth*; *Journal of Environmental Economics and Management*; *Journal of Health Economics*; *Journal of Political Economy*; *Journal of Political Economy: Microeconomics*; *Journal of Public Economics*; *National Science Foundation*; *Nature Climate Change*; *Nature Communications*; *Nature Energy*; *Proceedings of the National Academy of Sciences*; *Review of Economic Studies*; *Review of Economics and Statistics*

University of Chicago Committee on Environment, Geography and Urbanization Faculty Advisory (2021-)

University of Chicago Delhi Center Faculty Steering Committee (2019-)

Museum of Science and Industry Environmental Advisory Board (2018-)

Econometrics research team, “American Climate Prospectus: Economic Risks in the United States”, (2013-2014)

Contributing author, UN ISDR “3rd Global Assessment Report” (Released May 2013)

Research fellow, International Growth Centre (IGC), Dhaka, Bangladesh (2012)

Technical Advisor on Climate Adaptation, Bangladesh Red Crescent Society, Dhaka, Bangladesh (2009)

Scholar for Humanitarian Work: advisor on Disaster Risk Reduction, International Federation of Red Cross South Asian delegation in Delhi, India (2009)

Conferences & Invited Presentations:

- 2020:** Inter-American Development Bank (canceled, COVID-19); Resources for the Future (canceled, COVID-19); School of the Art Institute of Chicago (canceled, COVID-19); Stanford University (postponed, teaching)
- 2019:** University of Gothenburg; University of British Columbia; Simon Fraser U.; University of Oslo
- 2018:** ASSA meetings; NBER Summer Institute (EEE)
- 2017:** ASSA meetings; NBER Spring Meeting (EEE); Carnegie Mellon University; Macro and Micro Economics of Climate Change (UCSB); Advances in Estimating Economic Effects from Climate Change Using Weather Observations (Stanford); University of Chicago Booth
- 2016:** ASSA meetings; U. Maryland; U. Chicago Harris (job talk); “Geospatial Analysis of Disasters” (Heidelberg U., Germany); Duke University; Global Future Council (WEF, Dubai)
- 2015:** ASSA meetings; American Meteorological Society meeting; World Bank (macro seminar); Mayor’s Office of the City of Chicago; “Climate Injustice: Are there solutions?” (CUNY); NBER Summer Institute (Income Distribution); NEUDC (Brown); Stockholm University
- pre-2015:** Pacific conference for Development Economics (UCLA); UC Berkeley (Development lunch); UC Berkeley (ARE seminar); NBER Summer Institute (EEE); BREAD (LSE); NEUDC (Boston University); American Geophysical Union Fall Meeting; University of San Francisco; IZA Bonn; “ICARUS” (U. Michigan); American Geophysical Union Fall Meeting (Outstanding Paper award)

Selected Grants:

- Co-PI, “The value of forecasts”, J-PAL King Climate Action Initiative, \$150,000 (2022-present)
- Co-PI, “The value of forecasts”, J-PAL ATAI pilot grant, \$75,000 (2020-present)
- Co-I, Robust Decision Making on Energy and Climate Policy, NSF center at U. Chicago (2017-present)
- Co-PI, “Sloan Foundation Energy and Environmental Policy grant for Climate Impact Lab”, \$600,000 (2018-2020)
- Co-PI, “Long-run Environmental Quality and Human Capital Formation: Experimental evidence from schools in Delhi” pilot grant, Tata Center for Development, \$50,000 (2018-2020)
- Co-PI, “The Indian Climate Prospectus”, Tata Center for Development, \$300,000 (2018-2020)
- Co-PI, “Evaluating economic impacts of passive cooling technologies in Delhi”, U. Chicago Urban Labs & EPIC India (2016-2019)
- Co-I, IGC Grant “Food Security and Social Stability in Africa”, GBP 99,091 (2015)
- Co-I, IGC Grant “Indian Climate Early Warning System”, GBP 106,003 (2015)

Software: Stata, Matlab, GIS, Python, R, Photoshop, Illustrator