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Amir Sultan Jina

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Professional Experience:

2017 -	Assistant Professor, Harris School of Public Policy, University of Chicago
2014 - 2017	Postdoctoral Scholar, Economics Department, University of Chicago
2013 - 2014	Visiting researcher, Goldman School of Public Policy, UC Berkeley

Affiliations:

2024 -	Co-PI, AI for Climate (AICE), UChicago DSI & ICSG
2024 -	Co-Director, Human-centered Weather Forecast Initiative, UChicago
2024 -	Chair of Technical Panel (weather), AIM for Scale
2023 -	Scientific Director (forecasts), Development Innovation Lab, UChicago
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

Education:

2014	Ph.D. Sustainable Development, Columbia University Dissertation: "Economic Development in Extreme Environments" Advisor: Douglas Almond Committee Members: Max Auffhammer, Upmanu Lall, John Mutter, Cristian Pop-Eleches
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:

"The value of clean water: Experimental evidence from rural India." (with F. Burlig and A. Sudarshan). *American Economic Review* 116, no. 3 (2026): 1148-1187. (link)

"Designing probabilistic AI monsoon forecasts to inform agricultural decision-making." (with C. Aitken, R. Masiwal, A. Marchakitus, K. Kowal, M. Gupta, T. Yang, P. Hassanzadeh, W. Boos, M. Kremer. (2026) (link)

"Decision-oriented benchmarking to transform AI weather forecast access: Application to the Indian monsoon." (with R. Masiwal, C. Aitken, A. Marchakitus, M. Gupta, K. Kowal, H.A. Pahlavan, T. Yang, Y.Q. Sun, M. Kremer, W.R. Boos, P. Hassanzadeh). (2026) (link)

"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). (2022). *Revise & Resubmit, Journal of Political Economy* (link)

"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) *Nature* 642, no. 8068 (2025): 644-652. (link)

"Long-range forecasts as climate adaptation: Experimental evidence from developing-country agriculture." (with F. Burlig, E Kelley, G. Lane, and H. Sahai) NBER working paper No. w32173. (2024). (link)

"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. (link)

"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). *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:

"Valuing Disaster Prevention: Desert Locust Monitoring and Control" (with Eyal Frank, Josephine Gantois, Evelina Linnros, Gordon McCord, Anouch Missirian, Anna Tompsett)

"Experimentally assessing cool roofs in low-income developing country community" (with Anna Agarwal, Michael Greenstone, and Anant Sudarshan).

"Temperature variability changes due to climate change alter magnitude and distribution of climate impacts." (with Kevin Schwarzwald, Matz Haugen, Elisabeth Moyer, Michael Stein).

Teaching:

PPHA 39930 (2020-2026) – International Climate Policy, U. Chicago, Harris

PBPL 28728 (2020-2024) – Climate Change and Society, U. Chicago

PPHA 35550 & 57300 (2019-2021) – Economic Development and Policy (MPP, MAIDP), U. Chicago

PPHA 31002 (2017-2018) – Statistics for Data Analysis I, U. Chicago, Harris

Challenges of Sustainable Development (2013), Columbia University

Lead curriculum design and content production for Jeffrey Sachs "Age of Sustainable Development" MOOC course. Released as "The Age of Sustainable Development" by J.D. Sachs, Columbia University Press.

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 Public Economics; National Science Foundation; Nature; 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 Press*

University of Chicago Delhi Center Faculty Steering Committee

University of Chicago Committee on Environment, Geography and Urbanization Faculty Advisory

Museum of Science and Industry Environmental Advisory Board

Conferences & Invited Presentations:

2021-: Post-pandemic, I have largely reduced all travel to focus on childcare and reduce my carbon footprint. I travel very selectively for policy initiatives.

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 University; 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, "Farmer-Centered Weather Forecasts for Africa", Gates Foundation, $2,274,000 (2025-2027)

Co-PI, "Institutionalizing the dissemination of farmer-focused forecasts to smallholder farmers in India", J-PAL Innovation in Government Initiative, $127,000 (2025-present)

Co-PI, Global Partnership for Weather Forecast for Farmers, Asian Development Bank, $400,000 (2025-present)

Co-PI, Forecasting the Indian Monsoon, AIM for Scale, $500,000 (2025)

Co-I, AI weather research and training program, AIM for Scale, $860,000 (2024-present)

Co-PI, Human Centered Weather Forecast Initiative, University of Chicago, $1,500,000 (2024-present)

Co-PI, AI for Climate Initiative, University of Chicago, $1,000,000 (2024-present)

Co-PI, "The value of forecasts", J-PAL KCAI, $150,000 (2022-2025)

Co-PI, "The value of forecasts", J-PAL ATAI pilot grant, $75,000 (2020-2023)

Co-I, Robust Decision Making on Energy and Climate Policy, NSF center at U. Chicago (2017-2022)

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)