

Jesse Keith Anttila-Hughes

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Associate Professor
Department of Economics
University of San Francisco
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Appointments:

University of San Francisco

Chair, Department of Economics 2024 – present
Associate Professor, Department of Economics 2018 – present
Assistant Professor, Department of Economics 2012 – 2018

Education:

Columbia University, May 2012, Ph.D. in Sustainable Development
Columbia University, 2009, M.A. in Sustainable Development
Peking University, 2003, Chinese Language and Literature
Harvard University, 2002, A.B. in Physics

Peer Reviewed Research

Alessandra Cassar et al. “*Heat, Gender, and Cultural Variation in Social Preferences: Evidence from a Five-Country Experiment*” **forthcoming** in *PNAS Nexus*

Jesse K. Anttila-Hughes, Amir Jina, and Gordon McCord, 2021, “ENSO impacts child undernutrition in the global tropics,” *Nature Communications* 12, 5785

Rachel E. Baker and Jesse Anttila-Hughes, 2020, "Characterizing the contribution of high temperatures to sustained child undernourishment in Sub-Saharan Africa," *Scientific Reports* 10, 18796

Gordon McCord and Jesse K. Anttila-Hughes, 2017, "A Malaria Ecology Index Predicted Spatial and Temporal Variation of Malaria Burden and Efficacy of Antimalarial Interventions Based on African Serological Data," *The American Journal of Tropical Medicine and Hygiene*: 16-0602

Jesse K. Anttila-Hughes, 2016, "Financial Market Response to Extreme Events Indicating Climatic Change," *The European Physical Journal Special Topics*, 225(3) pp 527-538

Michael Oppenheimer and Jesse K. Anttila-Hughes, 2016, "Chapter 1: The Science of Climate Change," Future of Children, 26(1)

Jesse Anttila-Hughes and Mohan Sharma, 2015, “Linking risk models to microeconomic indicators,” *World Bank Policy Research Working Paper No. 7359*

Working Papers and Research in Submission

Marlyn Mwita, Timothy Sorochkin, Jesse Anttila-Hughes, and Alan Jamison, “*The Varieties of Schelling Model Experience*” **in submission** <https://arxiv.org/abs/2509.14462>

Antara Haldar, Michael Nordquist, Jonah Jellesed, Anchal Khandewal, Scott Klaus and Jesse Anttila-Hughes, “*Emergence of the Paris Agreement as a secondary rule in global climate governance*” **in submission**

Jesse Anttila-Hughes, Lia Fernald, Paul Gertler, Patrick Krause, and Bruce Wydick “*Effect on Mortality of Nestlé’s Entry into Infant Formula Markets In Low Income Countries*” **in submission** (2018 NBER Working Paper No. 24452: <https://www.nber.org/papers/w24452>)

Jesse Anttila-Hughes and Solomon Hsiang, “*Destruction, Disinvestment, and Death: Economic and Human Losses Following Environmental Disaster*” (2013 working paper available here: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2220501)

Research in Progress

Jesse Anttila-Hughes, Jeremie Corkery, Angelica Gloria, Brooke Johnson, Dafine Rizvanolli, Hossein Jebeli, and Alan Jamison, “*Economic complexity and income inequality in North American cities*”

Jesse Anttila-Hughes, Lauren Lamson, Lucas Borden, Akash Shaji, and Amir Jina, “*Sex of First Child and the Random Origins of Fertility Preferences*”

Jesse Anttila-Hughes and Charlotte Taylor, “*Sweden’s Great Escape: Industrialization and The Changing Productivity Costs of Winters*”

White papers and other research

Jesse K. Anttila-Hughes, “The Economic Aftermath of Disaster” *World Food Programme*. 2020

“Big Data for Resilience: Realising the Benefits for Developing Countries”. *Synthesis report for DfID*, Data-Pop Alliance, 2015 (co-lead PI)

David Latterman and Jesse Anttila-Hughes, “Using retail tax revenue data and other business metrics to determine the effect of streetscape improvements on businesses and business corridors in San Francisco,” *SFMTA and Fall Line Analytics*, 2014

Jesse K. Anttila-Hughes, “Storm’s human toll to hit Philippines Economic Growth,” *Oxford Analytica Daily Brief*, 2013

Marc Zenner, Robert Holloman, Carsten Stendevad, Anil Shivdasani, Claire Liang, Michael Simonetti, and Jesse Anttila-Hughes “Emerging Market Acquirors in Developed Markets – A Growing Force,” *Citigroup Global Corporate Finance, Financial Strategy*, 2005

Robert Holloman, Marc Zenner, Anil Shivdasani, and Jesse Anttila-Hughes “Bank Executive’s Guide to Value Creation Through Mergers and Acquisitions,” *Citigroup Global Corporate Finance, Financial Strategy*, 2004

Master’s theses supervised

2025

Dafina Rizvanolli, “The Long-Term Effect of Universities on Local Technology”

2023

Ashley Stewart, “Early Life Exposure to ENSO and Adult Human Capital”

Natalia Cancino “The Impact of High Temperatures on Child Anthropometric Outcomes Worldwide”

Grant Storer “Sweet & Timely Insurance: The Role of Honey in Reducing Food Insecurity Exposure for Coffee Producers in Mexico”

Jonah Jellesed “Political Economy of General Normative Force in the Paris Agreement”

Brooke Johnson “The Relationship Between Economic Complexity and Income Inequality: A study on the United States Metropolitan Statistical Areas”

Michael Nordquist, “Empirical Evidence for the Emergence of Global General Normative Force in the Paris Agreement”

Angelica Gloria, “Development and Economic Complexity of Mexican Municipalities: Analysis Based on their Gross Production and Resource Access”

Faelynn Carroll, “Climate and Conflict: View into a Warming World”

2022

Michael Emanuel, “Does a Minimum Wage Really Reduce Employment in the Retail and Fast Food Industries? Evidence from Canada”

Liubov Ivashov, “The modern-day effects of HOLC redlining on neighborhood development”

2021

Nettie Silvernale, “Do Conditional Cash Transfers Increase School Enrollment? Evidence from Brazil” (*joint with Kimberly Singer Babiarz*)

Devaprasad Sahadevan, “Transitioning into retirement: Effect of pension expansion on elderly labour force participation in India”

Rajshri Suresh, “Temperature effects on STI prevalence and symptoms in a population of at-risk female-sex workers in India”

Scott Barger, “Police Union Membership and Lethal Use of Force”

2020

Safia Belayadi, “Who Benefits from Park and Recreation Improvements in San Francisco? A case study of recreation center renovations in San Francisco”

James Dumlao, “Innovation Dynamics of Cultural Production: Evidence in Rap Lyrics”

Lauren Lamson, “The Effect of Sex of Firstborn Children on Fertility Preferences”

Ryan McWay , “Cruising Through School: General Equilibrium Effects of Cruise Ship Arrivals on Employment and Education”

Shuvam Rizal, “The Effect of Sex of Firstborn Children on Attitudes Towards Intimate Partner Violence”

Katie Roett, “Green Gold: Avocado price shocks and violence in Mexico”

Anna Subirana Bofill , “The Role of High-Fructose Corn Syrup Imports in Child and Women Obesity”

2019

Mahsa Ashabi, “Captive Nations: Measuring Economic Growth on Native American Reservations in California”

Hanna Cummons, “Class III Gaming and Economic Growth on Tribal Lands: A Nighttime Lights Analysis”

Sarah Elmes, “Better Fishing Conditions Improve Child Nutrition: Global Evidence from Satellite Data”

Isabel Miranda, “The Long-run Effects of Tropical Cyclones on Infant Mortality”

John Sutton, “Temperature and Tempers: Heats impact on Mood and Language”

2018

Charlotte Taylor, “Sweden's Great Escape: Industrialization and The Changing Productivity Cost of Winter”

Lois Onigbinde, “The Impacts of Natural Disasters on Educational Attainment: Cross-Country Evidence from Macro Data” (*joint with M.C. Sunny Wong*)

Anna Eckenrode, “Patriarchal Norms, Bargaining, and Gendered Attitudes on Intimate Partner Violence” (*joint with Yaniv Stopnitzky*)

2017

Berenger Djoumessi Tiague, “Agricultural Technology Adoption and Adaptation under Climate Change: Microevidence from Niger”

Christelle K. Bamona , “The Rise of the Maquiladoras and Crimes in Mexico” (*joint with Yaniv Stopnitzky*)

Abha Indurkar, “Generating Prevalence Estimates of Sensitive Behaviors through List Randomization: Survey Experiment among Indian Males” (*joint with Yaniv Stopnitzky*)

Matthew N. Krupoff , “Income Shocks and the Acceptance of Intimate Partner Violence in Indonesia” (*joint with Yaniv Stopnitzky*)

Meyhar Mohammed, “Do Marketing Strategies Impact Condom Sales in Uganda?” (*joint with Yaniv Stopnitzky*)

2016

Shuqiao Cheng, “Air Pollution and Fetal Loss in the Global Tropics”

Ke Yang “Air Pollution, Temperature and Cognitive Performance in the Short Run: Evidence from Women’s Ability to Recall Dates”

Patrick Krause “Traditional Agricultural Practices and Sex Ratios at Birth in Modern Times”

Jean Lee “Climate Variability Influences Women’s Attitudes Towards Intimate Partner Violence (IPV)”

Ingvild Madsen Lampe “Does Infant Formula Availability Reduce Breastfeeding?”

2015

Michael Dickerson “Crowded Out: The Effect of Sex Ratios on the Sex Worker Labor Market and Migration in India”

Philip Jakob “The Impact of Migration and Remittances on Children's Education in El Salvador”

Kate Pennington “Chutes and Ladders: Climate Variability and the Decision to Enter Sex Work in India”

2014

Thomas Dreesen “Early Life Rainfall and Later Life Human Capital Outcomes in Bangladesh”

Sarah Morrow “Typhoons and Lower Birth Weight in the Philippines”

Emily Wetherley “Typhoons and Temperature Impact Crime Rates: Evidence from the Philippines”

Kate Zitelli “Impact of Typhoons on Children's Human Capital Investments in Filipino Households”

Ph.D. dissertations supervised

2022

Britni Wilcher, American University, “Essays on the Economics of Gender Disparities in Health and Labor Markets,” external committee member

Presentations, Conferences and Workshops

- 2025 University of Nevada, Reno Economics Department Seminar, presenter
- 2024 Conference on Economic Complexity at Corvinus University in Budapest, Hungary, presenter
 - SusDevEr Sustainable Development Ph.D. alumni conference at Columbia University, presenter
- 2023 New Thinking in Industrial Policy at Columbia University, attendee
- 2022 Stanford University Center for Food Security and the Environment Seminar, presenter
 - Columbia University Virtual Seminar in Sustainable Development, presenter
 - PacDev 2022, chair for sessions on health and environment
 - American Association of Pediatrics Chapter Climate Advocates Seminar, invited speaker
- 2021 UC Berkeley Development Lunch Seminar, presenter
 - MeasureDev at CEGA, UC Berkeley, presenter
- 2020 UC Berkeley Development Lunch Seminar, presenter
 - PacDev 2020, Session: Climate Change & Pollution, presenter

- TWEEDS, Oct 2020, presenter
- 2019 Sustainable Development Research Symposium, presenter
- 2018 AEA Annual Meeting, presenter
- Columbia University SusDevEr, presenter
- CORE Economics USA Workshop, Barnard University, participant
- 2017 UC Davis Nutrition Seminar, presenter
- UC Berkeley Economics Dept. Development Lunch, presenter
- 2016 Sustainable Development Research Symposium, presenter
- American Economic Association Annual Meeting, presenter and discussant
- 2015 Econometric Applications of Climatology II, University of Guelph, presenter
- NBER Cohort Studies Spring Meeting, presenter
- Future of Children: Children and Climate Change, author's conference, Princeton
- American Economic Association Annual Meeting, High Stakes Energy and Environmental Problems in Developing Countries, discussant
- 2014 American Geophysical Union, Social Impacts of Climate Variability, Organizer and co-chair
- Association of Environmental and Resource Economists organized symposium at Agricultural and Applied Economics Association Annual Meeting, Minneapolis, invited panelist
- Disaster Risk Modeling of Poverty: Bringing together physical science and economics, World Bank, invited speaker
- 10th Anniversary Research Conference in Sustainable Development, Columbia University, invited session co-chair
- Northeastern University Undergraduate Conference on Human Rights, Northeastern University, invited speaker
- 2013 Southern Economic Association Annual Meeting, Tampa, invited panelist
- Drought Policy Conference, Harvard University, invited presenter
- NBER Summer Institute Environmental and Energy Economics Workshop, invitee
- Inequalities in Children's Outcomes in Developing Countries, Oxford University, presenter

Independent University of Bangladesh Centre for Health, Population, and Development, Dhaka, presenter

USAID / Philippines Sharing and Learning Session, Manila, presenter

Asian Development Bank - Poverty Reduction, Gender and Social Development Division and Disaster Risk Management Division, Manila, presenter

Ateneo University Economics Department Seminar Series, Manila, presenter

Annual Bank Conference on Development Economics (ABCDE), World Bank, presenter

NBER Universities Research Conference on Poverty, Inequality, and Social Policy, invited participant

Pacific Conference for Development Economics (PacDev), San Francisco State University, presenter

Advanced Graduate Workshop on Poverty, Development and Globalization, Azim Premji University, Bangalore, faculty leader and presenter

2012 American Geophysical Union's Annual Meeting, "Quantitative Modeling of Social and Environmental Systems", organizer and co-chair

Decision Sciences Institute, Natural Resource Scarcity session, San Francisco, invited panelist

University of San Francisco Seminar Series in Analytics, presenter

Agricultural and Applied Economics Association (AAEA) Annual Meeting, Seattle, presenter

1st Northeast Workshop on Energy Policy and Environmental Economics, Cornell, presenter

Initiative on Climate Adaptation Research and Understanding through the Social Sciences (ICARUS) 3rd Annual Conference, Columbia, presenter

American Geophysical Union Science Policy Meeting, Washington, DC, poster session

The Interdisciplinary Ph.D. Workshop in Sustainable Development, Columbia University, presenter

2011 American Geophysical Union, San Francisco, Oral Presenter, Poster Session Chair,

UC San Diego Environment Resource Group Seminar, presenter

- Union of Concerned Scientists' Workshop on Climate Change and Public Health, invited participant
- NBER Summer Institute Environmental and Energy Economics Workshop, research sketch presenter
- Interdisciplinary Ph.D. Workshop in Sustainable Development, Columbia University, presenter
- 2010 New World, New Capitalism, Paris, France, Invited Panel Chair for session on "After the Crisis: Should we change our vision of the world?"
- 2009 American Geophysical Union, San Francisco, Oral Presenter, poster session chair, session chair and oral presenter
- Conference for Sustainability IGERTs 2, Arizona State University, participant and poster session
- Advanced Graduate Workshop in Poverty, Development and Globalization, University of Manchester, presenter and teaching assistant
- 18th Annual Ph.D. Workshop on International Climate Policy, Columbia University, presenter
- Fourth Annual Interdisciplinary Symposium on Development and Globalization, Columbia University, presenter
- 2008 Vespucci Summer Institute on Geographic Information Science, Florence, Italy
- 2007 Emerging Powers in Global Governance Conference, SciencesPo, Paris, France

Peer Review and Refereeing

2012-2025 *Served as a referee for the following journals:* Climatic Change, Journal of Human Resources, Climatic Research, Climate and Development, Global Environmental Politics, Journal of Development Studies, Journal of Development Economics, Environment and Development Economics, Population and Environment, Risk Analysis, Review of Economic Statistics, Journal of Environmental Economics and Management, Oxford Bulletin of Economics and Statistics, British Medical Journal, Journal of Environmental Studies and Sciences, Management Science, British Medical Journal Open, Ecological Economics, American Economic Review Insights, Journal of the Association of Environmental and Resource Economists, Scientific Reports, Population Review, Weather Climate and Society, PNAS

Served as a referee for the following institutions: National Science Foundation (USA), Swiss National Science Foundation, Climate Change AI Foundation

Honors and Awards

2023 Innovation in Teaching with Technology Award, University of San Francisco

2015 Faculty Mentor of the Year Award, University of San Francisco

2010 Columbia University CIBER grant (joint with Solomon Hsiang and Daiju Narita)

2009 Columbia University President and Provost Award (as member of Sustainable Development Doctoral Society) for organizing the 18th Ph.D. Workshop on International Climate Policy

2006 National Science Foundation - Integrative Graduate Education and Research Traineeship (IGERT) International Development and Globalization Program Fellow

Teaching Experience:

University of San Francisco:

undergraduate

Economics 111, Principles of Microeconomics
Economics 101, Principles of Microeconomics
Economics 230, Environmental Economics
Economics 280, Global Economy
Economics 368, Economics, Culture, and Politics

graduate

Economics 601, Microeconomics: Theory and Applications
Economics 476/676, Natural Resource and Development Economics
Economics 620, Graduate Econometrics I
Economics 637, Causal Econometrics
Economics 690, Development Seminar

Columbia University:

Challenges of Sustainable Development, Columbia College, Head Teaching Assistant and Co-Lecturer with Prof. Jeffrey Sachs
Microeconomics and Policy Analysis I, SIPA, Tutor under Prof. Suresh Naidu
Dynamics of Climate Variability & Climate Change, Masters in Climate and Society, Teaching Assistant for Profs. Lisa Goddard and Mark Cane

Other:

6thAdvanced Graduate Workshop in Poverty, Development, and Globalization, Azim Premji University, Bangalore, Faculty Leader

5thAdvanced Graduate Workshop in Poverty, Development, and Globalization, University of Manchester, Teaching Assistant for Profs. Joseph Stiglitz and Akbar Noman

Ph.D. Research Assistant Experience:

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| 2010 | Research Assistant for John McArthur (Columbia University), research for Global Redesign Initiative |
| 2009 | Research Assistant for Dan Levy (Harvard University) and Leigh Linden (Columbia University), evaluation of impact of BRIGHT School building program on educational attainment and achievement in Burkina Faso, Mathematica Policy Research Inc. |
| 2008 | Research Assistant for Pierre Azoulay (MIT) and Joshua Graff Zivin (Columbia University / UCSD) “Collaboration Among Elite Scientists,” Presentation to National Institutes of Health |
| 2007 | Field Research with Millennium Villages Project. Evaluation of need for indexed weather insurance at Millennium Village sites in Louga, Senegal and Segou, Mali |
| 2007 | Research Assistant for Jeffrey Sachs (Columbia), “Modeling cost-efficacy of global CO2 emissions standards” |

Professional Experience

Analyst, Financial Strategy Group, Investment Banking Division, Citigroup, 2003-2005.

Personal:

Kendo 4th dan. Aikido 3rd dan. Proficient in spoken and written French, Japanese, Mandarin, Russian, and Spanish.