

Hélène Benveniste

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Education

Ph.D. in Science, Technology and Environmental Policy, 2021
Princeton University, School of Public and International Affairs
Dissertation Committee: M. Oppenheimer (Chair), D. Anthoff, M. Fleurbaey, A. Moravcsik, E. Weber

M.A. in Science, Technology and Environmental Policy, 2018
Princeton University, School of Public and International Affairs

M.Sc. in Engineering, Minor in Geostatistics and Applied Probabilities, 2012
Ecole Nationale Supérieure des Mines de Paris (Mines Paris)

Expertise

Subfields: Environmental Policy, International Political Economy, International Relations

Interests: Climate-related Human Migration, Global Environmental Governance, Politics of Decarbonization

Current Academic Appointments

- 2024– Assistant Professor, Department of Environmental Social Sciences and
Steven and Roberta Denning Faculty Fellow in Global Governance for Sustainability
Stanford University, Doerr School of Sustainability
- 2025– Faculty Affiliate, Woods Institute for the Environment, Stanford University
- 2024– Faculty Affiliate, King Center on Global Development, Stanford University

Past Academic Appointments & Research Experience

- 2023–2024 Postdoctoral Fellow, Center for the Environment & Salata Institute for Climate and Sustainability
Harvard University
- 2022–2023 Lead Author, Ch.5, Special Report on Environmental change, conflicts and human migration
Mediterranean Experts on Climate and environmental Change (MedECC)
- 2021–2023 Environmental Fellow, Center for the Environment & Harvard Kennedy School
Harvard University
- 2020–2021 IvyPlus Exchange Scholar, Energy Policy Institute, University of Chicago
- 2019 Young Scientist Summer Program, World Population & Energy groups
International Institute for Applied Systems Analysis (IIASA)
- 2018 IvyPlus Exchange Scholar, Energy and Resources Group, University of California Berkeley
- 2012 Research fellow, National Center for Atmospheric Research & Colorado State University &
Laboratoire des Sciences du Climat et de l'Environnement (LSCE)

Publications

Peer-Reviewed Journal Articles

"Prioritizing Involuntary Immobility in Climate Policy and Disaster Planning." L. Thalheimer, F. Cottier, A. Kruczkiewicz, C. Hultquist, C. Tuholske, **H. Benveniste**, J. Freihardt, M. Hemmati, P.M. Kam, N.G. Pricope, J. Van Den Hoek, A. Zimmer, A. de Sherbinin, R.M. Horton (2025). *Nature Communications*, 16 (2581). doi: 10.1038/s41467-025-57679-9.

"Climate Change Increases Resource-Constrained International Immobility." **H. Benveniste**, M. Oppenheimer, M. Fleurbaey (2022). *Nature Climate Change*, 12, 634–341. doi: 10.1038/s41558-022-01401-w.

"Tracing International Migration in Projections of Income Levels and Inequality across the Shared Socioeconomic Pathways." **H. Benveniste**, J. Crespo Cuaresma, M. Gidden, R. Muttarak (2021). *Climatic Change*, 166 (39). doi: 10.1007/s10584-021-03133-w.

"Effect of Border Policy on Exposure and Vulnerability to Climate Change." **H. Benveniste**, M. Oppenheimer, M. Fleurbaey (2020). *Proceedings of the National Academy of Sciences*, 117 (43), 26692–26702. doi: 10.1073/pnas.2007597117.

"Impacts of Nationally Determined Contributions on 2030 Global Greenhouse Gas Emissions: Uncertainty Analysis and Distribution of Emissions." **H. Benveniste**, O. Boucher, C. Guivarch, H. Le Treut, and P. Criqui (2018). *Environmental Research Letters* 13, 1. doi: 10.1088/1748-9326/aaaob9.

"In the Wake of Paris Agreement, Scientists Must Embrace New Directions for Climate Change Research." O. Boucher, V. Bellassen, **H. Benveniste**, P. Ciais, P. Criqui, C. Guivarch, H. Le Treut, S. Mathy, and R. Sférian (2016). *Proceedings of the National Academy of Sciences*, 113, 7287-7290. doi: 10.1073/pnas.1607739113.

Working Papers

"Global Climate Migration Is a Story of Who, Not Just How Many." **H. Benveniste**, P. Huybers, J. Proctor. Conditionally accepted at *Nature Communications*.

"Governing Climate Migration: A Right to a Livable Space in the Paris Agreement". **H. Benveniste**, S. Capisani. Under review.

"When Do Aspirational Goals Matter? Using the History of Global Environmental Governance to Benchmark the Paris Agreement." **H. Benveniste**, A. Moravcsik, M. Oppenheimer. In prep.

"Climate-Induced Redistribution of People Is Not Inevitable". I. Boas, C. Farbokto, H. Sterly, M. Hulme, **H. Benveniste**, K. Schewel, G. Bettini, M. Borderon, R. Hoffmann, K. van der Geest, D. Durand-Delacre, J. Selby, D. Wrathall, A. Baldwin, K.N. Bukari, S.A. Bunchuay-Peth, S. Capisani, S.N.A. Codjoe, R. Dahm, C. Dewan, H. Dijkstra, S. Fransen, F. Gemenne, M. dalla Fontana, T. Hilhorst, M. Iyer, M. Leung, B. Mallick, K. Paprocki, M. Parsons, P. Sakdalporak, A. de Sherbinin, F. Sultana, T. Tanielu, M. Yee. Under review.

"Asymmetry of Climate-Induced Migration Decisions: Departure and Return Between Mexico and the United States." **H. Benveniste**, S. Capisani, S. Constantino, F. Garip. In prep.

"The Effect of Non-Work Income on Migration and Well-Being in the Wake of Environmental Shocks: Evidence From Bangladesh." **H. Benveniste**, J. Freihardt, V. Koubi. In prep.

"From Nuclear Distrust to Renewable Endorsement: The Political Economy of Germany's Energy Transition." **H. Benveniste**, E. Dewitte. In prep.

"Policy Responses to Climate Migration." **H. Benveniste**. In prep.

Other Publications

Princeton Energy Dialogues. Executive Summary. H. Warren, A. Daraeepour, G. Davies, J. Lane, **H. Benveniste**, N. Choquette-Levy, R. Majumdar, T. Postma, P. Ramamurthi, M. Nagdee, R. Wagner (2020).

"Nations' Pledges to Reduce Emissions and the 2°C Objective". O. Boucher, **H. Benveniste**, and C. Guivarch (May 17 2016). *EOS*, 97. doi: 10.1029/2016EO052397.

"Les dessous des 2°C" . H. Le Treut, P. Criqui, **H. Benveniste**, O. Boucher, F.-M. Bréon, P. Ciais, T. Gasser, C. Guivarch, F. Lecocq, S. Mathy, E. Prados, D. Salas y Méliá, and R. Sférian (Nov 2015-Jan 2016). *Le Monde*, special issue on COP21.

"COP21 : Pour rejoindre rapidement une trajectoire limitant le réchauffement à 2°C". H. Le Treut, O. Boucher, V. Bellassen, **H. Benveniste**, F.-M. Bréon, P. Ciais, P. Criqui, T. Gasser, C. Guivarch, F. Lecocq, S. Mathy, E. Prados, D. Salas y Méliá, and R. Sférian (Dec 8 2015). *Le Monde*.

Professional Service and Affiliations

Member of the American Political Science Association, the International Studies Association, the Association of Environmental and Resource Economists, the Population Association of America

Reviewer for *Science*, *Proceedings of the National Academy of Sciences*, *Nature Climate Change*, *Nature Communications*, *Journal of Political Economy*, *Perspectives on Politics*, *Nature Human Behavior*, *One Earth*, *Environmental Research Letters*, *Population and Environment*, *Climatic Change*, *Migration Letters*, *Environmental Research Communications*, *Vienna Yearbook of Population Research*, *Big Earth Data*

Scholarships, Awards, Grants

2025: Research Fellowship Program, King Center for Global Development, Stanford University

2021–2023: French Environmental Fellowship Fund, Center for the Environment, Harvard University

2019–2020: Fellowship of Woodrow Wilson Scholars (Prize Fellowship in Social Sciences), Princeton University

2019: National Academy of Sciences / National Science Foundation fellowship grant for Young Scientists Summer Program at International Institute for Applied Systems Analysis (IIASA)

2018–2020: Princeton Energy and Climate Scholars, Princeton University

2016–2021: Fellowship, School of Public and International Affairs, Princeton University

Policy Experience

2021 Consultant, International Organization for Migration (UN Migration)

2015–2016 Research Engineer, Scientific advisory group to the French climate negotiation team
Centre National de la Recherche Scientifique (CNRS) & French Ministry of Environment

2012–2014 Deputy Attaché for Energy, French Embassy in Germany
Alternative Energies and Atomic Energy Commission (CEA) & French Ministry of Foreign Affairs

Invited Presentations

2025: American Political Science Association annual meeting. Labos 1.5 collective. Paris School of Economics. Centre International de Recherche sur l'Environnement et le Développement. University of Bologna. Stanford University Public and Environmental Economics Seminar. University of California Berkeley Economy and Society Initiative. Immigration Policy Lab at Stanford University. Climate Change, Green Backlash, and Democracy workshop at University of California San Diego. Political Economy of International Organization conference at Harvard University.

2024: Political Economy of Climate Change workshop at Science Po Paris. Organisation for Economic Cooperation and Development (OECD) Directorate for Public Governance. Migration and Climate Nexus workshop at Université Paris 1 Pantheon Sorbonne. Climate migration modeling intercomparison workshop at Princeton University. Politics of Climate and the Environment conference at University of Pennsylvania. American Political Science Association annual meeting. Centro Euro Mediterraneo sui Cambiamenti Climatici Workshop on Climate Migration. Princeton University Climate Mobilities conference. International Studies Association annual conference. University of Michigan School for Environment and Sustainability.

2023: Duke University Nicholas School of the Environment. Lehigh University Department of International Relations. Harvard Kennedy School of Government. Brown University Watson Institute for International and Public Affairs and Department of Political Science. Cornell University Department of Political Science. Stanford Doerr School of Sustainability. University of California Riverside School of Public Policy. Government of Canada School of Public Service. American Political Science Association annual meeting. Politics of Climate and the Environment conference at University of California Los Angeles. Managed Retreat conference at Columbia University. Preparing for a Changing Climate conference at Stanford University. University of California San Diego Political Science Department International Relations seminar. Population Association of America annual meeting. Harvard Kennedy School Energy Policy seminar.

2022: Climate (Im)mobility & Conflict expert workshop at Potsdam Institute for Climate Impact Research. Georgetown Just Sustainability Transitions seminar. Toronto Conference on Earth System Governance. American Political Science Association annual meeting. World Bank and Columbia University expert consultation on Modeling Methods for Forecasting Climate Mobility in Small Island Developing States. Annual conference on Environmental Politics and Governance. Scenarios Forum. IIASA 50th Anniversary Meeting at Boston University. Harvard University Planetary Health Colloquium.

2021: Integrated Assessment Modeling Consortium annual meeting. Brown University Climate Pipeline Workshop. University of Chicago Center in Paris Climate Migrations Conference. University of California Los Angeles Climate Adaptation Research Symposium. European Association of Environmental and Resource Economists annual conference. Association of Environmental and Resource Economists summer conference. Population Association of America annual meeting. Massachusetts Institute of Technology Department of Urban Studies & Planning and Schwarzman College of Computing. Denver University Korbel School of International Studies.

2020: Yale School of the Environment. American Geophysics Union fall meeting. Integrated Assessment Modeling Consortium annual meeting. University of California Berkeley Department of Environmental Science, Policy, & Management and Energy & Resources Group. European Association of Environmental and Resource Economists annual conference. Association of Environmental and Resource Economists annual conference. Princeton University Fellowship of Wilson Scholars seminar.

2019: American Geophysics Union fall meeting. Princeton Energy and Climate Scholars seminar. International Institute for Applied Systems Analysis Young Scientists Summer Program colloquium.

2018: Paris School of Economics Summer School on climate change impacts/modeling/regulation. Columbia University Interdisciplinary Ph.D. Workshop in Sustainable Development.

2016: United Nations Framework Convention on Climate Change, Subsidiary Body for Scientific and Technological Advice, Research Dialogue.

2015: French Ministry of Environment.

Teaching, Mentoring, and Outreach

- 2026: "Global Environmental Governance: Politics, Institutions, and Change". Professor, Stanford University
- 2026: "Earth at a Crossroads: the Politics of Global Environmental Governance". Professor, Stanford University
- 2025: "Science for Sustainable Solutions" (S. Davis). Guest lecturer, Stanford University
- 2025: "Conflict and Climate Change" (K. Schultz). Guest lecturer, Stanford University
- 2022–2024: "Human Environmental Data Science" (P. Huybers). Guest lecturer, Harvard University
- 2023: "Migrations" (R. Vega-Duran). Guest lecturer, Harvard University
- 2022: "Climate Mobility" (A. de Sherbinin). Guest lecturer, Columbia University
- 2022: "International Law & Global Justice" (K. Sikkink). Guest lecturer, Harvard University
- 2021: "Sociology of Climate Change" (J. Beckfield). Guest lecturer, Harvard University
- 2019: "Climate Change Impacts, Adaptation & Policy" (M. Oppenheimer). Teaching asst, Princeton University
- 2024–2025: Senior thesis co-adviser (S. Donnellan), International Relations, Stanford University
- 2023–2024: Senior thesis adviser (A. Baxter), Social Studies, Harvard University
- 2018–2020: Outreach program coordination at high schools in Princeton and Trenton, NJ
- 2015–2016: Outreach events on the Paris Agreement at middle/high schools/town halls across France