

Columbia University
Climate School
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Research Interests Climate risk, social vulnerability, financialization, institutional change, environmental governance, scientific expertise, text analysis, ethnography

Academic Positions **Columbia University, Climate School, New York, NY**
Postdoctoral Researcher (2023-2025)

Ecole des Hautes Études en Sciences Sociales, Paris, France
IFRIS Post-doctoral Researcher at Centre Alexandre Koyré (2021-2023)

Education **University of California - Los Angeles, Los Angeles, CA**
PhD, Department of Sociology, 2021
Dissertation: Making climate knowledge actionable: Risk, uncertainty and the politics of protection in a warming world

Massachusetts Institute of Technology, Cambridge, MA
Master's in City Planning, Dept. of Urban Studies and Planning, 2012
MCP Thesis: Carbon finance, tropical forests and the state: governing international climate risk in Democratic Rep. of Congo

Brown University, Providence, RI
BA, History, 2005

Book Project *Making Climate Knowledge Actionable: The Politics of Protection on a Warming Planet.*
(Under advance contract with Columbia University Press).

Articles and Book Chapters Gray, I., Cointet J.P. 2023. "Multilateralism of the Marginal: Least Developed Countries and International Climate Negotiations, 1995-2016." *American Journal of Sociology*. 129(3): 796-855.

Gray, I. 2022. "Damage Functions", in *Accumulation: The art, architecture, and media of climate change*. Eds. Axel, N., N. Hirsch, D. Barber, & A. Vidokle. Minneapolis: University of Minnesota Press.

Gray, I. 2021. "The Treadmill of Protection: How public finance constrains climate adaptation." *The Anthropocene Review* 8(2): 196-218.

Gray, I. 2021. "Hazardous Simulations: Pricing climate risk in U.S. coastal insurance markets." *Economy and Society* 50(2): 196-223.

- Gray, I. 2017. "Marketization as Political Technology: Unintended consequences of climate finance in the Democratic Republic of Congo." *Economy and Society* 43(3-4), 545-575.
- Venturini, T., Baya-Lafitte, N., Cointet, J.P., Gray, I., Zabban, V., de Pryck, K. 2014. "Three Maps and Three Misunderstandings: A digital map of climate diplomacy." *Big Data and Society* 1(1), 1-19.
- Nelson, G., Rosegrant, M., Palazzo, A., Gray, I., Ingersoll, C., Roberson, R., Tokgoz, S., Zhu, T., Sulser, T., Ringler, C., Msangi, S., You, L. 2010. *Food Security, Farming and Climate Change to 2050*, International Food Policy Research Institute Policy Research Monograph, Washington D.C.
- Papers in Progress
- Gray, I. "Cultures of Anticipation: Governing water scarcity in Southwestern France" (working paper)
- Gray, I. "Legitimacy Maintenance: Balancing inclusiveness and expertise in the Intergovernmental Panel on Climate Change" (working paper)
- Demortain, D., Kinniburgh, F., Frickel, S., Beck, S., Frickel, S., Gray, I., Grundmann, R., Kitson, B., Matsner, N., Rea, C., Tollefson, J., Wetts, R. "Computational Science and Technology Studies" (working paper)
- Gray, I. & Cafiero, F. "The Monkey Wrench Gang: Procedural obstruction as political strategy in international climate negotiations" (in project phase)
- Gray, I. & Marlow, T. "Risk Spillovers: Financial analysts' attention to extreme weather events in utility sector earning calls" (in project phase)
- Frickel, S., Kinniburgh, F., Beck, S., Demortain, D., Gray, I., Grundmann, R., Kitson, B., Matsner, N., Rea, C., Tollefson, J., Wetts, R. "Environmental Knowledge and Politics" (in project phase)
- Public Scholarship
- Gray, I. & Barral, S. 2021. "[A \(rapid\) climate audit of economic sociology](#)" *The European Electronic Newsletter of Economic Sociology* 22(3): 4-9.
- Gray, I. Sept 2020. "[Damage Functions](#)" *e-flux Architecture*. Accumulation project series.
- Gray, I. March 5, 2020. "[Outrunning the Anthropocene? Countering coastal land loss by the rapid restoration of salt marshes.](#)" *Anthropocene Curriculum Journal*.
- Gray, I. & Bakke, G. Jan 30, 2019, "[Pacific Gas and Electric is a company that was just bankrupted by climate change. It won't be the last.](#)" *Monkey-Cage Blog* at *The Washington Post*.

Affiliations and Research Positions	<p>New York University, New York, NY Visiting Scholar, Environmental Studies Department (2022-2023)</p> <p>Max Planck Institute for the History of Science, Berlin, German Visiting Pre-doctoral Fellow, Anthropocene Group (2019-2021)</p> <p>Sciences Po, Paris, France Research Fellow, médialab, (2012-2015)</p>
Fellowships and Grants	<p>Dissertation Year Fellowship (2020-2021) University of California – Los Angeles (\$20,000)</p> <p>International Dissertation Research Fellowship (2019-2020) Social Science Research Council and Mellon Foundation (\$26,000)</p> <p>Center for European and Russian Studies Research Fellowship (2019) University of California – Los Angeles (\$5,000)</p> <p>UCLA Graduate Research Mentorship (2017-2018) University of California – Los Angeles (\$20,000)</p> <p>Graduate Research Fellowships Program, Honorable Mention (2016) National Science Foundation</p> <p>MIT International Science Initiative-France Fellowship (2012) Massachusetts Institute of Technology (\$5,000)</p> <p>Public Service Center Fellowship (2011) Massachusetts Institute of Technology (\$7,000)</p> <p>Sustainability Science Program Summer Research Fellowship (2010) Harvard Kenney School of Government (\$7,000)</p> <p>Program for Environmental Governance and Sustainability Fellow (2009-2011) Massachusetts Institute of Technology (DUSP); 2/3rd Tuition & full stipend</p>
Conference Presentations	<p>“The Monkey Wrench Gang: Operationalizing Inaction in International Climate Negotiations.” Studying Policy Obstruction Around the Globe: Lessons from Climate Change Politics, Climate Social Science Network (Virtual Conference), March 15, 2024.</p> <p>“Making Climate Knowledge Actionable: Pricing Climate Risk in US Insurance markets.” Managed Retreat Conference, Columbia University, New York, June 21, 2023.</p> <p>“Multilateralism of the Marginal: How the Least Developed Countries found their voice in international political deliberations.” American Sociological Association (ASA). Los Angeles, August 9, 2022.</p>

“Structural Adjustment: Negotiating the future of irrigated agriculture in southwestern France.” Society for the Advancement of Socio-Economics (SASE). Amsterdam, Netherlands. July 10, 2022.

“Legitimacy Maintenance across Boundaries: Balancing professional inclusivity and expertise in complex organizations.” Society for the Advancement of Socioeconomic Analysis (SASE). Online due to Covid, July 20, 2020.

“Legitimacy Maintenance across Boundaries: Balancing professional inclusivity and expertise in complex organizations.” European Group on Organizational Studies (EGOS). Online due to Covid, July 2, 2020.

“Damage Functions: Legitimizing simulations of future risks by archiving the present.” Society for the Advancement of Socioeconomic Analysis (SASE). New York, July 27, 2019.

“Crisis, cultural holes and coordination in international scientific assessments.” American Sociological Association (ASA). Montreal, August 12, 2017.

“Meso-data and digitally casing international climate politics” (w/Jean-Philippe Cointet). Society for the Social Studies of Science (4S). Denver, November 12, 2015.

“Forms of Carbon: The materiality of development and climate change politics.” New School for Social Research Annual Graduate Student Sociology Conference. New York, March 27, 2013.

Workshops/ Seminars

“Building Climate Scenarios to Protect the Financial System: Tracing knowledge infrastructure for estimating physical climate risks”, Tropical Cyclone Group, Columbia Climate School, February 7, 2024

“The Fraught Politics of Pricing Climate Risk in U.S. Insurance Markets.” Guest Lecture to Science in Environmental Policy class in the Department of Environmental Studies, New York University, February 6, 2023.

“Modeling political interaction from textual traces of international climate Seminar negotiations.” Computational Environmental STS Workshop, Université Gustave Eiffel. Marne-la-Vallée, France, July 13, 2022.

“Climate knowledge and the politics of anticipation: the use of catastrophe models in insurance pricing.” Anthropocene Workshop, Max Planck Institute for the History of Science. Berlin, Germany, October 16, 2018.

“Weathering the Synthetic Storm: Contentious efforts to incorporate climate science in homeowner insurance.” New School for Social Research Workshop: Insurance and Climate Change. New York, April 17, 2018.

“Catastrophe Merchants: The convergence of risk analytics and climate data in the estimation of disaster loss.” Alexander von Humboldt Foundation Conference: Finance as a response to environmental crises? Hamburg, Germany, November 28, 2017.

“Negotiated Interactions: Measuring Agreement and Disagreement in International Climate Politics” (w/Jean Philippe Cointet). Center for Spatial and Textual Analysis Seminar, Stanford University. Palo Alto, May 19, 2016.

“Mapping the dynamics and culture of the IPCC.” University of Chicago Workshop: Visualizing Structures: Formalism, Abstraction, Representation, Science. Paris, France, June 9, 2015.

“Textual network analysis of climate-risk disclosures in corporate 10-K reports (2009-2014).” European Research Council Workshop: In Search of Cosmopolitan Data and Research Methods. *Fondation Maison des Sciences de l’Homme*. Paris, France, December 9, 2014.

“Framing impacts: situating the knowledge dynamics of climate adaptation research.” Guest lecturer in Climate Controversies: Past, Present and Future, Sciences Po Master’s Program in Environmental Policy. Paris, France, April 23, 2013.

Policy and Public Talks

“Calculating climate risk: incorporating climate science into the price of catastrophe insurance.” Arts Catalyst Public Lecture Series on Risk, Simulation, and Climate Change. Bath, England (online due to Covid), November 13, 2020.

“Pricing climate risk in American homeowner insurance” New Climate Institute, Lunch Series. Berlin, Germany. March 13, 2019.

“Nesting the Local: Bridging the gaps between REDD+ design and informal village institutions in the Democratic Republic of Congo”, Economic and Institutional Implications of Measuring and Monitoring Approaches to REDD+, United Nations Framework Convention on Climate Change 17th Conference of Parties. Durban, South Africa, December 1, 2011.

University Teaching

Teaching Associate (Sciences Po, Paris, CSO)
The COVID-19 Experiment: Sociological Analyses of the Pandemic (Fall 2020, Prof. Borraz and Prof. Giraudeau)

Teaching Associate (UCLA)
Capstone Seminar in Genetics and Society (Spring 2017, Prof. Kelty)
Economy and Society (Winter 2017, Prof. Berend)

	<i>Introduction to Society and Genetics</i> (Fall 2016, Prof. Landecker)
	Teaching Assistant (Sciences Po, Paris) <i>Cartography of Controversies</i> (2013-2015; 4 semesters; Prof. Venturini)
	Teaching Assistant (MIT) <i>Qualitative Methods for Thesis Research</i> (Fall 2011, Prof. Carmin)
Trainings	Summer Institute in Computational Social Sciences (June 18 – July 1, 2017) Russell Sage Foundation, Princeton University
	Summer School for Research in Science and Innovation (July 22-26, 2013) French Institute for Science and Innovation (IFRIS), Florence, Italy
Organized Workshops/ Conferences	Network S, “Environment and Climate Change”, Society for the Advancement of Socio-Economics (SASE) – Limerick 2024 (upcoming) / Rio de Janeiro 2023
	“How Economic Models Shape Public Policy Options in the Era of Climate Change”, full-day, international workshop co-organized with colleagues from the <i>Centre de Sociologie d’Innovation</i> and the <i>Centre Alexandre Koyré, Écoles des Mines</i> , Paris, June 20, 2024 (upcoming)
	“The Political Economy of Climate Change” mini-conference at Society for the Advancement of Socio-Economics (SASE) Conf. July 2022 (Amsterdam)
	“Green Transitions in the Anthropocene” mini-conference at annual Society for Advancement of Socio-Economics (SASE) Conference, July 2021(online)
	“The Social Dynamics of the Technosphere”, international conf. organized at the Max Planck Institute for the History of Science, Berlin, June 2021
	“ Data, digital methods and mapping social complexity ”, bi-monthly research seminar organized between LATTS and Sciences Po on visualizing social and semantic dynamics in the social sciences, February – June 2014 (ENCSI)
	“Adaptation to Climate Change – Debates on Framings and Knowledge”, full day workshop co-organized and hosted with the <i>Centre Koyré</i> , /EHESS and held at Sciences Po, Paris (principal organizer). May 16 2013.
Academic Service	Co-founder and coordinator of Network S, “Environment and Climate Change,” for the Society for the Advancement of Socio-Economics (SASE)
	Reviewer for <i>Antipode</i> , <i>Anthropocene Review</i> , <i>Climate Policy</i> , <i>Economy and Society</i> , <i>Environmental Planning D: Society and Space</i> , <i>Nature Communications</i> .
Professional	American Sociological Association (2015-present); Society for the Social

Memberships	Studies of Science (4S) (2015-present); Society for the Advancement of Socio-Economics (2018-present).
Professional Experience	<p>Research Fellow, médialab, Sciences Po, Paris (2012-2015) Managed French National Research Agency (ANR) project on the institutionalization of climate adaptation research and planning in France. Responsible for research design and coordinating a multi-disciplinary team in the selection of case studies, construction of datasets, and implementation of various digital methods for analysis and presentation.</p> <p>Consultant, Woods Hole Research Center, Woods Hole, MA (Mar-June 2011) Conducted baseline village livelihood assessments in Equateur Province of the Democratic Republic of Congo where the Center was preparing to implement a REDD+ project funded by Congo Basin Forest Fund.</p> <p>Development and Communications Associate, Ceres, Boston (2007-2009) Part of core team responsible for developing new programs and securing funding for national climate and finance group's ongoing work. Brought in \$3.5 million in two years from major environmental foundations.</p> <p>Associate Producer, Living on Earth, Boston (2006-2007) Reported and produced feature and news segments for National Public Radio's national environment and science weekly radio magazine.</p> <p>Independent Producer, National Public Radio (2005-2007) Produced and reported segments for NPR stations and nationally syndicated shows, including Marketplace, Weekend America, National Native News, WBUR, WCAI, WABE, and KUFM.</p> <p>Production Assistant, Atlantic Public Media, Woods Hole, MA (2005-2006) Worked on production team for National Public Radio's <i>This I Believe</i> weekly essay program, and for documentary audio website Transom.org.</p>
Languages	English/French (bi-lingual); Spanish (beginner); Russian (beginner)