

A.R. SIDERS

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EDUCATION

Degrees

- 2018 **Ph.D.**, Stanford University, Emmett Interdisciplinary Program in Environment and Resources
- 2010 **J.D.**, Harvard Law School, *magna cum laude*
License: California State Bar
- 2007 **A.B.**, Harvard College, Human Evolutionary Biology, *summa cum laude*

Certificates

- 2012 Georgetown University, Legislative Affairs
- 2011 Georgetown University, Nonprofit and Public Executive Management

PROFESSIONAL APPOINTMENTS

- 2022 – pres. **Director**, Gerard J. Mangone Climate Change Science and Policy Hub, University of Delaware
- 2019 – pres. **Assistant Professor**, University of Delaware
Biden School of Public Policy and Administration; Department of Geography and Spatial Sciences, College of Earth, Ocean and Environment
Core Faculty, Disaster Research Center; Affiliate, Marine Science and Policy
- 2018 – 19 **Environmental Fellow**, Harvard University Center for the Environment
- 2012 – 13 **Associate Director** & Postdoctoral Fellow, Columbia Law School, Center for Climate Change Law
- 2010 – 12 **Presidential Management Fellow**, U.S. Navy, Office of the Chief of Naval Operations

PUBLICATIONS

**Student co-author (UD or collaborating institution)*

Journal Articles

- In review N. Simpson, P. Williams, K. Mach, L. Berrang-Ford, R. Biesbroek, M. Haasnoot, A. Segnon, D. Campbell, J. Musah-Surugu, E. Joe, A. Nunbogu, S. Sabour, T. Andrews, C. Singh, [A.R. Siders](#), J. Lawrence, M. van Aalst, C. Trisos, “Adaptation to compound climate events: A systematic global stocktake,” *iScience* (Special issue on compounding hazards).
- In review U. Gangwal*, [A.R. Siders](#), J. Horney, H. Michael, S. Dong, “Critical facility accessibility and road criticality assessment considering flood-induced partial failure,” *Sustainable and Resilient Infrastructure*.
- Forthcoming [A.R. Siders](#), “Why we need a just transition for coastal adaptation,” *Shore & Beach*.
- Forthcoming P. Dineva*, C. McGranaghan, K.D. Messer, L. Palm-Forester, L.A. Paul, [A.R. Siders](#), “Promoting spatial coordination in flood buyouts in the United States: Four strategies and four challenges from the economics of land preservation literature,” *Natural Hazards Review*.

- 2022 [A.R. Siders](#), “The administrator’s dilemma: Closing the gap between climate adaptation justice in theory and practice,” *Environmental Science and Policy* [[link](#)]
- 2022 N. Ulibarri, I. Ajibade, E. Galappaththi, E. Joe, A. Lesnikowski, K. Mach, J. Musah-Surugu, G. Nagle Alverio, A. Segnon, [A.R. Siders](#) ... Z. Zommers [32 co-authors], “A global assessment of policy tools to support climate adaptation,” *Climate Policy* [[link](#)].
- 2021 K.J. Mach, [A.R. Siders](#), “Reframing strategic, managed retreat for transformative climate adaptation,” *Science* [[link](#)].
- 2021 L. Berrang-Ford, [A.R. Siders](#), A. Lesnikowski ... Abu [126 co-authors], “A systematic global stocktake of evidence on human adaptation to climate change,” *Nature Climate Change*, [[link](#)] [Global Adaptation Mapping Initiative - GAMI]
- 2021 [A.R. Siders](#), A.L. Pierce, “Deciding how to make climate change adaptation decisions,” *Current Opinion in Environmental Sustainability* [[link](#)].
- 2021 [A.R. Siders](#), I. Ajibade, D. Casagrande, “Transformative potential of managed retreat as climate change adaptation,” *Current Opinion in Environmental Sustainability* [[link](#)].
- 2021 M. Araos, K. Jagannathan, R. Shukla, I. Ajibade, E. Coughlan de Perez, K. Davis, J. Ford, E. Galappaththi, C. Grady, A.J. Hudson, E. Joe, C. Kirchhoff, A. Lesnikowski, M. Nielsen, B. Orlove, B. Pentz, D. Reckien, [A.R. Siders](#) ... L. Turek-Hankins [33 co-authors], “Equity in adaptation: A systematic global review,” *One Earth* [[link](#)].
- 2021 [A.R. Siders](#), I. Ajibade, “Managed retreat and environmental justice in a changing climate,” *Journal of Environmental Studies and Sciences* (Introduction to special issue) [[link](#)].
- 2021 C. Kraan*, J. Niemann, M. Hino, [A.R. Siders](#), K. Mach, “Promoting equity in retreat through voluntary property buyout programs,” *Journal of Environmental Sciences & Studies* [[link](#)].
- 2021 L. Turek-Hankins*, E. Coughlan de Perez, G. Scarpa, P. Shwerdtle, E. Joe, E. Galappaththi, E. French, S. Austin, C. Singh, M. Sina, [A.R. Siders](#), M. van Aalst, S. Templeman, A. Nunbogu, L. Berrang-Ford, T. Agrawal, K. Mach, “Climate change adaptation to extreme heat: A global systematic review of implemented action,” *Oxford Open Climate Change* [[link](#)].
- 2020 P. Marchman, [A.R. Siders](#), K. Leilani Main, V. Herrmann, D. Butler*, “Planning relocation in response to climate change: Multi-faceted adaptations,” *Planning Theory & Practice* [[link](#)].
- 2019 [A.R. Siders](#), “Managed retreat in the United States,” *One Earth* [[link](#)].
- 2019 K. Mach, C. Kraan, M. Hino, [A.R. Siders](#), E. Johnston, C. Field, “Managed retreat through voluntary buyouts of flood-prone properties,” *Science Advances* [[link](#)].
- 2019 [A.R. Siders](#), M. Hino, K. Mach, “The case for strategic and managed climate retreat,” *Science* [[link](#)].
- 2019 [A.R. Siders](#) & J. Keenan, “Variables shaping coastal adaptation decisions to armor, nourish, and retreat in North Carolina,” *Ocean and Coastal Management* [[link](#)].
- 2019 [A.R. Siders](#), “Adaptive capacity to climate change: A systematic review and synthesis of methods, concepts, and findings,” *WIREs Climate Change* [[link](#)].
- 2019 [A.R. Siders](#), C. Hulet, “Climigration and the private sector,” *Community Development Investment Review* (Federal Reserve Bank of San Francisco) [[link](#)].

- 2018 [A.R. Siders](#), “Social justice implications in U.S. managed retreat buyout programs,” *Climatic Change* [[link](#)].
- 2017 [A.R. Siders](#), “A role for urban climate adaptation strategies: Lessons from London, UK,” *Regional Environmental Change* [[link](#)].
- 2016 E. Grubert & [A.R. Siders](#), “Benefits and applications of interdisciplinary digital tools for environmental reviews and analysis,” *Environmental Research Letters* [[link](#)].
- 2016 [A.R. Siders](#), R. Stanley, & K.M. Lewis, “A proposal for dynamic ocean management in the Bering Strait region,” *Marine Policy* [[link](#)].

Books

- 2021 I.J. Ajibade, [A.R. Siders](#) (eds.), *Global views on climate relocation and social justice: Navigating retreat* (Routledge) [[link](#)] [Introduction open access [here](#)]

Book Chapters

- Forthcoming K. Mach, M. Hino, [A.R. Siders](#), S. Koller, C. Kraan, J. Niemann, B. Sanders, “From flood control to flood adaptation: Managing changing risks and promoting just well-being,” *Oxford Research Encyclopedia of Environmental Science* (Water Resources Management and Policy volume).
- 2021 O'Neill, B., M. van Aalst, Z. Zaiton Ibrahim, L. Berrang Ford, S. Bhadwal, H. Buhaug, [A.R. Siders](#) ... Z. Zhang [114 authors], “Key Risks Across Sectors and Regions.” In: *Climate Change 2022: Impacts, Adaptation, and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*, Cambridge University Press. [[link](#)]
- 2021 [A.R. Siders](#), M. Rockman, “Connecting Cultural Heritage and Urban Climate Change Adaptation,” in *Toward Sustainability + Equity* (E. Avrami, ed., Columbia Books on Architecture and the City). [[link](#)]
- 2021 [A.R. Siders](#), B. Ristroph, “Adaptation – Federal Law,” in *Law of Environmental Protection* (Environmental Law Institute, Reuters). [[link](#) to book]
- 2021 [A.R. Siders](#), L. Gerber-Chavez*, “Resilience for whom? Insights from COVID-19 for social equity in resilience,” in *COVID-19: Systemic Risk and Resilience* (I. Linkov, J. Keenan, B. Trump, eds., Springer). [[link](#) to book]
- 2016 [A.R. Siders](#), “Resilient Incoherence – Common language for climate change adaptation, disaster risk reduction, and sustainable development,” in *The Role of International Environmental Law in Disaster Risk Reduction* (J. Peel and D. Fisher, eds., Brill). [[book](#)]
- 2012 M. Gerrard & [A.R. Siders](#), “Mexico’s General Climate Change Law,” in *What are the Next Steps? Perspectives on Mexico’s General Law on Climate Change* (Law Network).

Reports

- 2022 N. Shepherd, J. Cohen, W. Carmen, M. Chundu, C. Ernsten, O. Guevara, F. Haas, S. Hussain, F. Riede, [A.R. Siders](#), C. Singh, P. Sithole, A. Troi, “Solutions’ White Paper,” *The role of cultural and natural heritage for climate action*, International Co-Sponsored Meeting on Culture, Heritage, and Climate Change, IPCC and ICOMOS. [[link](#)]
- 2021 [A.R. Siders](#), L. Gerber-Chavez*, *US floodplain buyouts: Common practices and lessons learned*, (The Nature Conservancy). [[link](#)]

- 2021 [A.R. Siders](#), L. Gerber-Chavez*, S. Adams, D. Richardson, K. Reece*, *Local Wetland and Watercourse Regulations: Potential Tools for Floodplain Management, Lessons from Three New York Towns* (The Nature Conservancy). [\[link\]](#)
- 2021 A. Reilly, [A.R. Siders](#), D. Niemeier, *Eliminate billion-dollar disasters: Equitable science-based US disaster policy for a resilient future* (Day One Project) [\[link\]](#).
- 2015 F. Bendimerad, J. Declan, M. Padilla, A. Dalena, [A.R. Siders](#), R. Crozier, V. Seva, R. Tanhueco, *Naga City Case Studies: Risk Sensitive Land-Use Planning and Incentives for Disaster Risk Reduction* (Asian Development Bank, EMI; Philippines).
- 2015 S. Barley-Greenfield*, J. Huang*, J. Pullano*, R. Stanley*, M. Caldwell, J. Martinez, [A.R. Siders](#), *Local barriers to nature-based strategies for coastal hazard mitigation in California* (Stanford Law School) [\[link\]](#).
- 2015 S. Barley-Greenfield*, J. Huang*, J. Pullano*, R. Stanley*, M. Caldwell, J. Martinez, [A.R. Siders](#), *Legal analysis of eligibility of nature-based flood mitigation strategies for FEMA Hazard Mitigation Funding* (Stanford Law School) [\[link\]](#).
- 2013 [A.R. Siders](#), *Managed Coastal Retreat: A Legal Handbook on Shifting Development Away from Vulnerable Areas* (Center for Climate Change Law, Columbia Law School) [\[link\]](#).
- 2010 B. Docherty, S. Knox, L. Pappone, [A.R. Siders](#), *Bearing the Burden: The effects of mining on First Nations in British Columbia* (Harvard Human Rights Clinic) [\[link\]](#).

Other Publications: Conference Proceedings, Public-Facing Tools

- 2021 [A.R. Siders](#), Agenda for Climate Relocation Research and Practice, Proceedings of Penn's Perry World House, 2020 Global Shifts Colloquium [\[link\]](#).
- 2021 [A.R. Siders](#), L. Gerber-Chavez*, A. Mann, S. Newkirk, Legal Tools Series [7 public-facing documents explaining coastal management tools] – Bundle of Property Rights Explainer, Conservation Easements, Leasebacks, Life Estates, Rolling Easements, Rebuilding Restrictions, Transfer of Development Rights (The Nature Conservancy)
- 2020 [A.R. Siders](#), C. Brooks, A. Cravens, R. Nelson, D. Reineman, N. Ulibarri, "How to beat isolation? Academic feedback groups promote growth as scholars and humans," *Nature* [\[link\]](#).
- 2017 [A.R. Siders](#), "Past US floods give lessons in retreat," *Nature Correspondence*.
- 2013 [A.R. Siders](#), "Anatomy of a buyout: New York post-Sandy," *Proceedings of the 16th Conference on Litigating Takings Challenges to Environmental Regulations*.

Coding Tools and Protocols

- 2021 L. Berrang-Ford, A. Lesnikowski, A.P. Fischer, [A.R. Siders](#) ... Van Aalst, "The Global Adaptation Mapping Initiative (GAMI): Part 1 – Introduction and overview of methods," *Nature Protocol Exchange*, 10.21203/rs.3.pex-1240/v1
- 2021 A. Lesnikowski, L. Berrang-Ford, [A.R. Siders](#), N. Haddaway, R. Biesbroek, S. Harper ... B. Van Bavel, "The Global Adaptation Mapping Initiative (GAMI): Part 3 – Coding protocol," *Nature Protocol Exchange*, 10.21203/rs.3.pex-1242/v1
- 2020 [A.R. Siders](#), Coder reliability and intercoder reconciliation for qualitative meta-analyses and syntheses, GitHub repository (R Code); 10.5281/zenodo.4010763
- 2018 [A.R. Siders](#), R script for creating a cross-citation network, GitHub repository (R Code)

Selected Public Writings

- 2022 [A.R. Siders](#), "Reflections on the IPCC WGII Report," *Latitude* (Plos Climate [Blog](#)).

- 2021 K.J. Mach, [A.R. Siders](#), “Is your town threatened by floods? Consider managed retreat,” *The New York Times*.
Essay featured in “30 ways science educators teach with the New York Times” [\[link\]](#)
- 2021 [A.R. Siders](#), K.J. Mach, “Managed retreat done right can reinvent cities so they’re better for everyone – and avoid harm from flooding, heat and fires,” *The Conversation* [\[link\]](#).
Selected for Johns Hopkins Anthology on Water (forthcoming 2023)
- 2021 [A.R. Siders](#), A. Reilly, D. Niemeier, “After 22 billion-dollar disasters in 2020, it’s time U.S. disaster policy was made equitable, effective, and climate-ready: Here’s how,” *The Conversation* [\[link\]](#).
- 2018 [A.R. Siders](#), “Government-funded buyouts after disasters are slow and inequitable – here’s how that could change,” *The Conversation* [\[link\]](#).
- 2017 [A.R. Siders](#), “Art and science in the Watersnood Museum: Remembering the Netherlands’ deadliest flood,” *Europe Up Close*.

GRANTS, FELLOWSHIPS, AND AWARDS

Grants and research funding

Funded proposals

- 2022 NSF Coastlines and People (CoPe), Equity, economic prosperity, and resilience to coastal hazards in coastal communities (Senior Personnel, \$14,528,022)
- 2022 Delaware Sea Grant, Community resilience and adaptation to sea level rise and extreme storms: Tradeoffs of home acquisition strategies (Senior Personnel, \$142,500)
- 2022 Delaware Department of Transportation, Modeling road access, social justice, and future adaptation allocations (Co-PI, \$112,000)
- 2021 NSF Humans, Disasters and the Built Environment [HDBE], Collaborative Research: Floodplain management in the United States: Where, why, and how policies to limit or remove development have shaped exposure outcomes (PI, \$290,090)
- 2021 University of Delaware Research Foundation, Evaluating floodplain buyouts: Understanding how voluntary property acquisitions affect participants (PI, \$38,500)
- 2020 Unidel, Establishing a UD Climate Science and Policy Hub (funding to the university; co-sponsor, \$446,000)
- 2020 NASA EPSCoR, Building a Competitive and Sustainable Delaware Remote Sensing Big Data Center for Cutting-Edge Coastal and Environmental Change Research and Workforce Development (Senior Personnel, \$750,000)
- 2020 The Nature Conservancy, Legal challenges for coastal adaptation (PI, \$107,000)
- 2020 NOAA, Ocean Acidification Program, Evaluating Ocean Acidification vulnerability and interactions among traditional and emerging coastal Alaska industries (Senior Personnel, \$854,134) [Project funded; I withdrew]
- 2016, 2017 Graduate Research Grant, Environment and Resources, Stanford (\$8,000)
- 2015 Ann and Reid Buckley Collaboration Research Grant (Climate Change Policy) (PI \$26,000)
- 2014, 2015 McGee Graduate Research Grant, Stanford Earth Sciences (\$6,000)

- 2014, 2015 E-IPER Graduate Student Research Grant, Stanford University (\$5,000)
 2010 Millbank grant to organize national security law conference (\$10,000)

Successful Postdoctoral Proposals Supported

- 2020 T. Doeffinger, Adaptation Pathways: Approaches to Coastal Adaptation in the United States, NSF SBE Postdoctoral Fellowship (funded).

Unfunded proposals

- 2021 NOAA Regional Integrated Sciences and Assessments [RISA], Mid-Atlantic Center for Climate Assessment and Policy (MACCAP) (Co-PI, \$3,500,000) (LEAD: UMCES)
 2021 UD General University Research [GUR], A national survey of participant perceptions of floodplain buyout outcomes (PI, \$15,000)
 2020 NSF Coastlines and People (CoPe), Resilience and Retreat through Integration of Science, Communities, and Governance (Senior Personnel, \$559,223) (Lead: Tulane)
 2020 NSF CoPe, Equity, economic prosperity, and resilience to coastal hazards in coastal communities (Senior Personnel, \$14,528,022) (Lead: UD)
 2020 NOAA Adaptation Science, Transforming Community Engagement on Managed Retreat (Co-PI, \$300,000) (Lead: The Nature Conservancy)
 2020 NSF CoPe, REACCT – Resilient, adaptable communities facing coastal threats hub for integrated research and engagement (Senior Personnel, \$17,000,411) (Lead: UD)
 2020 NSF CoPe, Community resilience initiative – Adapting to sea level rise using advanced physical modeling, public finance & policy development, just & equitable stakeholder engagement (Senior Personnel, \$481,407) (Lead: University of Hawai'i)
 2019 Carnegie Fellowship (UD Nominated; \$200,000)

Fellowships

- 2016 – 18 Morgridge Family Stanford Interdisciplinary Graduate Fellowship, Stanford
 2015 – 16 International Fellow, Earthquakes and Megacities Initiative, Philippines
 2013 – 16 David and Lucille Packard Foundation Stanford Graduate Fellowship in Science & Engineering, Stanford

POLICY EXPERIENCE

- 2015 – 19 **Climate Adaptation Specialist**, Earthquakes and Megacities Initiative
 Expert consultant on climate risks and adaptation for urban resilience master plans.
- 2012 – 13 **Associate Director** & Postdoctoral Research Fellow, Center for Climate Change Law, Columbia Law School
 Researcher and advocate for legal strategies to promote coastal resilience. Drafted legislation. Supported developing states at UNFCCC. Led advocacy efforts in utility rate case to include climate adaptation in utility storm-hardening measures. Case eventually led to first public utility commission mandate for utilities to assess climate risk.

2010 – 12 **Presidential Management Fellow, U.S. Navy**

Select accomplishments include:

- Warfare Integration, *Office of the Chief of Naval Operations*, Washington DC
Managed \$900 million in energy and climate programs. Conducted Three-Star Admiral level coordination on Task Force Energy and Task Force Climate Change Executive Steering Committees.
- Africa Partnership Station, *Naval Forces Africa*, Naples, Italy
Created strategic planning framework and collaborated with U.S. analysts and partners to establish capacity building plans with seven East African navies. Wrote *APS Handbook*. Created metrics for success to advocate for increased funding.

PRESENTATIONS

select videos at: shorturl.at/vCNS2

Invited Workshops & Symposia

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| Upcoming | Stanford University, New Climate Paradigms Conference, Center for Ethics in Society, Nov 10-11. |
| 2022 | Perry World House, Symposium: Imagine a Just and Climate Resilient Transboundary Region: An experiment in the politics of humility and the diplomacy of radical generosity, Sep 30. |
| 2022 | University of Southern California Sea Grant, People on the Move in a Changing Climate Workshop, Sep 27-28. |
| 2022 | Heidelberg Center for American Studies, Natural Catastrophes in the United States – Making Sense of Risks and Vulnerability, Germany, July 15 – Call for papers |
| 2022 | Natural Hazards Workshop, [Plenary] Climate & Relocation, July 12 – Agenda & Video |
| 2022 | Coastal Quest Symposium, Accelerating Solutions for a Resilient Coast, Adaptive Shoreline Management Panel, March 23 - Website |
| 2022 | Massachusetts Association of Conservation Commissions, Annual Environmental Conference, Managed Retreat Panel, March 2 – Agenda |
| 2021 | Global Climate Forum, Symposium Cultures of Coastal Adaptation, Germany [Virtual], Sep 22-24. |
| 2021 | New Hampshire Coastal Adaptation Workgroup, Climate Summit [Keynote], May 26 – Website & Videos |
| 2021 | Temple University, Beasley School of Law, Temple Law Review, Climate Migration Symposium, Feb 26 – Agenda Link |
| 2020 | University of Connecticut, SeaGrant, Climate Adaptation Academy, Managed Retreat Workshop [Keynote], Nov 13 – Website with Agenda & Videos |
| 2020 | Perry World House, Global Shifts Colloquium: Seeking Refuge in the Climate Emergency, University of Pennsylvania, Sep 14-16 – Website & Proceedings |
| 2020 | American Association for the Advancement of Science (AAAS) Annual Meeting, Seattle, WI, <i>Envisioning Ocean Climate Solutions for the Next Generation</i> , Feb 15 – agenda |

- 2020 Columbia University, Climate Heritage – Toward Sustainability and Equity: Envisioning Preservation Policy Reform, Feb 6-7 – [book](#)
- 2019 Kiel University, Germany, *Narratives and Discourses in Environmental Justice*, June 6-9.
- 2019 Ocean Visions Climate Summit, Georgia Institute of Technology, *Adaptive socio-ecological systems in coastal climate adaptation*, April 1-4 [Keynote] – [Agenda](#)

Invited Talks – Webinars & Speaker Series

- Upcoming Cascadia Coastal Hazards Research Coordination Network and Coastlines and People Hub, Apr 6, 2023.
- 2022 University of Washington, Center for Studies in Demography and Ecology, Seminar Series Speaker, Oct 14.
- 2022 Hudson River Estuary Program, Wetland Buffers and Municipal Flood Control, Sep 14. [website](#)
- 2022 Climate Central, Rising Sea Level and Real Estate Values, Webinar, Sep 7.
- 2022 National Academies of Science Engineering and Medicine (NASEM), Committee on Hazard Mitigation and Resilience Applied Research Topics, Compound and Cascading Events Panel, May 31 – [Agenda Link](#).
- 2022 National Academies of Science Engineering and Medicine (NASEM), Committee on Managed Retreat in the Gulf Region, Workshop Presentation, May 16 – [Agenda Link](#)
- 2022 Princeton University, High Meadows Environmental Institute, Highwater Line: New Jersey, Coastal Solutions Panel, May 4 – [Website](#)
- 2022 Gulf of Maine Research Institute, Learning Ecosystems Northeast, Color of Climate Youth Organization, Climate Migration Speaker Series, March 7 – [Video](#)
- 2021 Princeton University, Center for Policy Research on Energy and the Environment, Bradford Seminar, Oct 25 – [website with video archive](#)
- 2021 NASA & Department of Interior, Interagency Forum on Climate Risks, Impacts, and Adaptation, Oct 7 – [Agenda](#)
- 2021 FEMA & NASA, Resilient Nation Partnership Network, Alliances for Climate Action Virtual Forum Series, Managed Retreat Panel [Moderator], Oct 6 – [Website & Speakers](#)
- 2021 Disaster Recovery Academy, The Nature Conservancy, *Managed Retreat and US Buyouts*, June 4.
- 2021 NOAA, Moving Back from the Mid-Atlantic Coast: Relocation Planning Approaches and Tools, April 28 – [Video](#)
- 2021 Marine Social Science Network, Adaptive Capacity Working Group, *Defining and assessing adaptive capacity*, April 1.
- 2021 Old Dominion University, Institute for Coastal Adaptation and Resilience, Seminar Series, Mar 22 – [link](#)
- 2021 World Refugee & Migration Council, Climate Change & Forced Displacement (Panel), Feb 25 – [website & video](#)
- 2020 Climate Central, Workshop: Billion Dollar Disasters & Climate Change, Dec 14 – [Website](#)

- 2020 Observer Research Foundation, June 29 (Online keynote for audience in Kolkata, India) – [Video](#)
- 2020 Georgia Institute of Technology, Civil and Environmental Engineering Cross-Cutting Resilience Research Seminar, Jan.
- 2019 Middlebury Institute of International Studies, *Managed Retreat in California*, Nov 12.
- 2019 Natural Resources Defense Council, Building Better Buyouts Workshop, Oct.

Conference Activity

- 2022 New Jersey Association of Floodplain Managers, Plenary Panel, Oct 27.
- 2022 National Adaptation Forum, Baltimore, MD, Stories from Frontline Communities Adapting to Climate Change, Oct 26.
- 2022 Royal Geographic Society, Annual Meeting, United Kingdom [Virtual] Aug 31.
- 2021 Royal Geographic Society, Annual Meeting, United Kingdom [Virtual] Aug 28.
- 2021 Columbia University, Managed Retreat Conference, Virtual, June 22-25 (Keynote) ([Agenda](#))
- 2021 South by Southwest (SXSW), Rising Seas [Panel], March 16-20 [\[video\]](#).
- 2020 American Geophysical Union, Bridging Systems Modeling Advances Across Socioecological Domains [Panel], Dec 7.
- 2020 Natural Hazards Conference, Colorado [Virtual] [Moderator] July 13.
- 2019 Data Science Institute Symposium, University of Delaware, Nov 15.
- 2019 Columbia University, Managed Retreat Conference, New York, NY June 19-21 (Panel)
- 2019 American Association of Geographers Annual Meeting, Washington DC, April 6.
- 2019 National Adaptation Forum, Madison, WI, April 23-25.
- 2018 Association for Environmental Studies and Sciences Conference, Washington, DC, June 20-23.
- 2017 Digital Humanities Conference, Montreal, Canada, August 11-14 [Poster; award-winner].
- 2017 National Adaptation Forum, Saint Paul, MN, May 9.
- 2017 American Association of Geographers Annual Meeting, Boston, MA, April 5.

Public Talks (Selected Recent)

- 2022 Long Beach Options Committee, Webinar, Rockport, MA, Jan 25 – [news story](#)
- 2021 European Ambassador Joint Visit to University of Delaware, Lewes DE (Panel) Oct 18.
- 2021 Delaware Sierra Club, *Managed Retreat Q&A Livestream*, April 2 – [ad](#)
- 2020 Ocean Currents Lecture Series, *Living with the shore: Visions of adaptation for coastal communities*, July 9.
- 2020 Resilient and Sustainable Communities League (RASCL), *Equity in Adaptation*, Jan.
- 2019 Newburyport Storm Surge, MA, *At What Point Retreat?* November 6.
- 2019 New Yorker Festival, *Climate Change and Coastal Resilience*, October 11 [Panel].
- 2019 New England Environmental Business Council, Adaptation Forum, *The R Word: Retreat, Relocation, and Climate Resilience*, March 1.

TEACHING

Classroom Instruction

- 2019 – pres. University of Delaware
- *Climate Adaptation Policy* (undergraduate and graduate, course developer and instructor) (Fall 2019, Fall 2021)
 - *Climate Fiction, Science, and Communication* (undergraduate and graduate, course developer and instructor) (Fall 2020)
 - *Environmental Justice in Disasters* (undergraduate and graduate, course developer and instructor) (Spring 2020, 2022)
 - *Public Policy Analysis* (undergraduate, instructor) (Spring 2020; Fall 2020)
 - *Research Design* (graduate, instructor) (Fall 2020, Fall 2021, Fall 2022)
 - *Climate Change Policy* (undergraduate, instructor) (Spring 2022)
- 2015 Stanford Law School, *Policy Lab: Catalyzing Nature Based Solutions for Flood and Coastal Defense* (graduate) (co-instructor)
- 2014 Stanford, Civil and Environmental Engineering, *Climate Change Adaptation in Coastal Cities* (undergraduate and graduate) (course developer and instructor)

Guest Lectures (Selected)

- F2022 University of Delaware, *Understanding Climate Change* (Geography); *Introduction to the Environment* (Geography) (upcoming Nov), *Environmental Policy* (Biden School) (Dec)
- F2022 Harvard, Graduate School of Design, *Climate by Design*
- S2022 Berkeley, University of California, *Climate Change Adaptation*
- 2021 University of Delaware, *Marine Policy Seminar* (School of Marine Science & Policy), *Introduction to the Environment* (Geography), *Understanding Climate Change* (Geography), *Climate & Society* (Geography), *Global Studies Lecture Series* (Center for Global and Area Studies), *Introduction to Public Policy* (Biden School)
- 2021 Berkeley, University of California, *Sustainable Environmental Design*, Thesis Review
- 2021 University of Florida, *Envision Resilient Nantucket*
- 2021 Princeton University, *Managed Relocation Workshop*
- 2021 North Carolina State University, *Environmental Speaker Series Lectures*
- 2020 University of Delaware, *Global Studies Lecture Series* (Center for Global and Area Studies), *Professional Development* (Biden School), *Planning Sustainable Communities and Regions* (Biden School & Geography), *Prelude to Geography* (Geography)
- 2020 OSHER Institute of Lifelong Learning, *Environmental Issues*
- 2020 Berkeley, University of California, *Sustainable Design*
- 2020 Harvard University, *Planning for Climate Change*
- 2019 University of Delaware, *Weather* (English & Art History), *Planning Sustainable Communities and Regions* (Biden School & Geography), *Prelude to Geography* (Geography), *Environmental Policy* (Biden School), *Doctoral Dissertation Proposal Workshop* (Biden School), *Civil Infrastructure and Transportation Seminar* (Engineering)

STUDENT ADVISING

PhD Students

Advisor

Logan Gerber-Chavez, PhD, Disaster Science & Management, University of Delaware (anticipated 2023)

Awards: University of Delaware Doctoral Research Fellowship, Biden School of Public Policy and Administration Peter A. Larson prize for significant contribution to international public policy, Student paper award MidAtlantic Regional Conference of American Association of Geographers (1st prize 2021; 3rd prize 2020)

Tiana Thorp, PhD, Civil and Environmental Engineering, University of Delaware, Co-Advisor (2021-2025)

Salvesila Tamima, PhD, Disaster Science & Management, University of Delaware (anticipated 2026)

Committee Member

Samuel Fielding, PhD, Marine Policy, University of Delaware (anticipated 2023)

Erica Bower, PhD, Emmett Interdisciplinary Program in Environment and Resources, Stanford University (anticipated 2024)

Ju-Ching Huang, SJD, Georgetown Law School (anticipated 2024)

Emily Aiken, PhD, Geography & Spatial Sciences, University of Delaware ('20-'21)

Academic Advisor

Adam Andresen, PhD, Disaster Science & Management, University of Delaware ('20-'21)

Master's Students

Research Advisor

M. Jawadul Gani, MS, Energy and Environmental Policy, University of Delaware (2024)

Matthew Kirchoff, MS, Energy and Environmental Policy, University of Delaware (2020)

Emily Flynn, MA, Harvard Extension School (2020)

Academic Advisor

Energy and Environmental Policy (2 students)

Committee Member or Reader

Rose Zappacosta, MS, Energy and Environmental Policy, University of Delaware (2021)

Loonibha Manandhar, MS, Geography Spatial Sciences, University of Delaware (2021)

Brian Capobianco, MS, Energy and Environmental Policy, University of Delaware (2020)

Jeffrey Chubbs, MS, Energy and Environmental Policy, University of Delaware (2020)

Michelle Woody, MS, Disaster Science and Management, University of Delaware (2020)

Collyn Chan, MS, Department of Urban Planning, MIT (2019)

Undergraduate Advising

Thesis Advisor

Kristen Reece, BA, International Relations & German (2022)

Academic Advisor

Environmental Studies (4 students)

Energy and Environmental Policy (Minor) (5 students)

Undergraduate Research Supervisor

Summer Research Scholars (2021) (1 student)

Summer Research Fellows Program (2020, 2021) (3 students)

University of Delaware Research Apprenticeship Work-Study (UDRAW) (2020 – present)
(5 students)

Research-Funded RAs (5 students) (2020 - present)

SERVICE ACTIVITIES

Departmental and University Service*University*

2022 – pres. Director, Gerard J. Mangone Climate Change Science and Policy Hub (started 1 Aug)

2020 – pres. Library Committee, Senate Faculty Standing Committees

Biden School of Public Policy and Administration

2021 – pres. Doctoral Committee, Energy and Environmental Policy

2020 – pres. Graduate Policy Committee, Disaster Science and Management (Chair as of June 2022)

2021 – 22 Identity Committee, Biden School

2020 – 21 Program Development Committee, Disaster Science and Management

2019 – 20 International Committee, Member, Biden School

Geography & Spatial Sciences

2021 Search Committee, Social Dimensions in Climate Change, Department of Geography and Spatial Sciences

2020 Academic Council, Department of Geography and Spatial Sciences

Ad Hoc

2020 DENIN Symposium Poster Judge

2020, 2021 Woolard Climate Scholar application evaluation and selection

Editorial2021 – pres. Academic Editor, *PLOS Climate*2020 – pres. Editorial Board, *SciNotes*2018 – 21 Assistant Editor, *Journal of Environmental Studies and Science* (JESS)
Editor of Special Issue on Managed Retreat (2021)2009 – 10 Editor-in-chief and co-founder, *Harvard National Security Journal*2009 – 10 Editor-in-chief, *Harvard Human Rights Journal*

Journal Reviewer

Arctic Anthropology, Climate and Development, Climate Policy, Climate Risk Management, Climatic Change, Conservation Biology, Earth's Future, Elementa, Environmental Research Letters, Global Environmental Change, International Journal of Mass Emergencies and Disasters, International Journal of Urban Science, Journal of Environmental Management, Journal of Environmental Planning and Management, Journal of Planning Education and Research, Latin American Research Review, Marine Policy, Maritime Policy & Management, McGill Journal of Sustainable Development Law, Mitigation and Adaptation Strategies for Global Change, Natural Hazards Review, Ocean & Coastal Management, PLoS One, Regional Environmental Change, Science, Weather, Climate and Society, WIREs Climate Change, Water and Environmental Policy

Grant Reviewer

National Science Foundation – Sociology; Decision Science; Humans, Disasters, and the Built Environment

Social Sciences and Humanities Research Council (Canada)

New Jersey Sea Grant Consortium

California State Science Information Needs Program (COAST)

DelMarVa Land Grant Institution Cooperative Seed Grant

Oregon Sea Grant SEED Proposal Competition

Pacific Institute for Climate Solutions

Virginia Agricultural Experiment Station, Virginia Tech

University of Delaware internal grant competitions

Conference Organization Committee Member and/or Reviewer

2021, 2022 Columbia University Earth Institute, Managed Retreat Conference, Committee

2021 Ocean Visions Climate Summit, Committee

2020 Urban Institute, Climate Migration Policy Summit, Committee

2018, 2019 Association for Environmental Studies & Sciences, Conference Committee

2017 - 2020 Association of Digital Humanities Organizations, Conference Reviewer

Other Service & Leadership Positions

2021 – National Climate Assessment, Fifth, US Global Change Research Program, Adaptation Chapter, Contributing Author

2020 – 22 Intergovernmental Panel on Climate Change (IPCC), Sixth Assessment Report (AR6), Working Group II, Adaptation Ch 16, Contributing Author

2019 – 21 Global Adaptation Mapping Initiative (GAMI), Synthesis Lead

2020 American Association of Geographers, Human Dimensions of Global Change Specialty Group, Board Member

2019 – Forerunner, Advisor

2019 – Ocean Visions, Fellow

2019 – 20 Hawai'i Philanthropy Foundation, Advisory Board

- 2018 – 20 Climigration Network, Agenda Setter Leadership Team
 2017 – Earth Systems Governance Network, North American Region, Co-Coordinator

Professional Affiliations

- 2010 - American Bar Association
 2018 - American Political Science Association
 2014 - American Society of Adaptation Professionals
 2013 - Association of American Geographers
 2015 - Association for Computers and the Humanities
 2012 - Climate Evaluation Society
 2010 - Environmental Law Institute

Professional Development

- 2020 - 2022 Leveraging Equity and Diversity (LEAD) Ally Training
 2020, 2021 Summer Institute on Teaching, University of Delaware
 2020 Wiley Online Course Design Training
 2020 Secure UD Online Training (Phase I and II)

SELECTED MEDIA COVERAGE

Television

- 2022 Bloomberg, [Hurricane Sandy 10 years later: Is New York City ready?](#) Oct 27.
 2022 CNN, [After her home was destroyed by Ian, she’s ready to ‘close it up and be done.’ She’s not the only one,](#) Oct 13.
 2022 WBTW, [Saving the Carolinas: The financial toll of climate change on the coast,](#) Feb 14
 2021 C-SPAN, Washington Journal, [Efforts to reform taxpayer-funded disaster relief policies,](#) Sep 2.
 2021 NBC Boston, [Buyer beware: Massachusetts flood disclosure law criticized,](#) Apr 22.
 2020 NBC Boston, [Rising seas: Time for Mass. Towns to retreat from the coast?](#), Dec 10.

Radio & Podcast

- 2022 The Tech Humanist, [How tech harms – and can help heal – the climate,](#) Apr 21.
 2022 The Takeaway, NY Public Radio, [‘Managed Retreat’ a solution to communities impacted by climate change,](#) Apr 18.
 2022 NPR, [Ocean water along US coasts will rise about one foot by 2050, scientists warn,](#) Feb 15
 2021 Science Friday, [Stories from those on the frontlines of sea level rise,](#) Oct 29.
 2021 NPR, [More than Half of US Buildings are in Places Prone to Disaster, Study Finds,](#) June 24.
 2021 NPR, [Who Pays When Sea Levels Rise,](#) July 27.
 2020 CBC Radio Canada, What on Earth, [“Will climate change make us retreat from the waterfront?”](#) 18 July.

- 2020 The Infrastructure Show, [Moving to Higher Ground – Retreat as a Response to Climate Change](#), June 1.
- 2020 Clean Technica Podcast, [“Managed Retreat in the Face of Climate Change,”](#) May 29.
- 2019 America Adapts, [“Everything you wanted to know about managed retreat,”](#) Nov 11.
- 2019 Science Friday, [“As Seas Rise & Rivers Flood, Communities Look for a Way Out,”](#) Oct 18.
- 2019 National Public Radio, [“Sweeping Study Raises Questions About Who Benefits from Buyouts of Flood-Prone Homes,”](#) October 9.
- 2019 National Public Radio, [“Considering ‘Managed Retreat’,”](#) June 23.

Newspapers & Magazines

- 2022 Center for Public Integrity, [Leaving the island: The messy, contentious reality of climate relocation](#), Aug 17
- 2022 National Geographic, [Antarctic ice shelves are shattering. How fast will seas rise?](#) Mar 28
- 2022 BBC Planet, [The Illinois town that got up and left](#), Mar 14
- 2021 Hakai Magazine, [Adapting to climate change will only get more expensive](#), Dec 16.
- 2021 PBS News Hour, [In communities facing effects of climate change, some forced to consider leaving home in ‘managed retreat’](#), Nov 12.
- 2021 Climate Centre, [COP26: Does adaptation actually reduce risk? New global study probes answers](#), Nov 3.
- 2021 Reuters, [Who wins, who loses from the boom in climate prediction startups?](#) Oct 5.
- 2021 LA Times, [How should California confront the rising sea? These lawmakers have some bold ideas](#), Aug 26.
- 2021 E&E News, Scientific American, [Stay or Go? Climate disaster victims face wrenching decision](#), June 23.
- 2021 CNN, [“As people flee climate change on the coasts, this Midwest city is trying to become a safe haven,”](#) April 12.
- 2020 Washington Post, [“Climate Change Turns the Tide on Waterfront Living,”](#) Apr 13
- 2020 Baffler, [“On the Waterfronts: Flood buyouts and the economics of climate change,”](#) Jan.
- 2019 Scientific American, [“Rich Residents Build Defenses against Rising Seas; Poor Ones Leave,”](#) Nov 8.
- 2019 New York Times, [“Rich Counties get More Help to Escape Climate Risk,”](#) October 9.
- 2019 Bloomberg, [“America’s Great Climate Exodus is Starting in the Florida Keys,”](#) 20 Sep.
- 2019 International Business Times, [“Move Away from Coastal Areas While You Still Can, Scientists Sound Warning on Climate Change,”](#) 26 August.
- 2019 New York Times, [“How to Rebound After a Disaster: Move, Don’t Rebuild, Research Suggests,”](#) August 22.
- 2019 Vice, [“This is what America Could Look Like When Our Coasts are Under Water,”](#) July 23