

# A.R. SIDERS

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## EDUCATION

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### 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

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- 2022 – pres. **Director**, Gerard J. Mangone Climate Change Science and Policy Hub, University of Delaware
- 2023 – pres. **Associate Professor**, University of Delaware  
*Assistant Professor* (2019-2023)  
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

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

### Journal Articles (Recent)

- 2023 N. Simpson, K. Mach, M. Tebboth, E. Gilmore, [A.R. Siders](#), P. Holden, B. Anderson, C. Singh, S. Sabour, L. Stringer, H. Sterly, P. Williams, A. Meyer, G. Cundill, S. Rosengaertner, A. Nunow, K. Amakrane, C. Trisos, “Research priorities for climate mobility,” *One Earth*.
- 2023 K. Mach, J. Niemann, R. Donald\*, N. Seeteram\*, [A.R. Siders](#), X. Cortada, A. Nyburg, J. Owley, A. Roberti, I. Wright, “Practitioner perspectives on climate mobilities in South Florida,” *Oxford Open Climate Change*.

- 2023 P. Dineva\*, C. McGranaghan, K. Messer, L. Palm-Forster, L. 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*.
- 2023 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*. J. Peterson, M. McMillan, [A.R. Siders](#), L. Shi, G. Griggs, “Federal leadership for relocation of coastal communities,” *Environmental Law Reporter*.
- 2023 [A.R. Siders](#), D. Veron, “Advancing climate education through integrated activities to promote inclusion, creativity, and mental health,” *Bulletin of the American Meteorological Society*.
- 2022 [A.R. Siders](#), “Why we need a just transition for coastal adaptation,” *Shore & Beach*.
- 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](#)].
- 2022 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*.
- 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* (Intro 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. Schwerdtle, 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](#)].

**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 (Recent)**

- 2024 L. Duckert, [A.R. Siders](#), “Crisis and Quietus: Climate change and emotional turmoil in *Harvestella*,” in *Playing to Save the World: Environmental Humanities and the Video Game* (Aliano, ed.) (Publication anticipated early 2024)
- 2023 Contributing Author to Adaptation Chapter, in *Impacts, Risks, and Adaptation in the United States: Fifth National Climate Assessment* (Crimmins et al., eds.), US Global Change Research Program.
- 2023 [A.R. Siders](#), K. Mach, “As coastal flooding worsens, some cities are retreating from the water,” *The Conversation on Water* (Gerlak, ed., Johns Hopkins Press)
- 2022 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).
- 2022 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]

**Reports (Recent)**

- 2022 N. Shepherd, J. Cohen, W. Carmen, M. Chundu, C. Ernten, 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](#)].

**Selected Public Writings**

- 2023 [A.R. Siders](#), “Book Review: *The Octopus in the Parking Garage*: ‘Hope is Alive but Time is Running Short,’” Center for Progressive Reform
- 2023 [A.R. Siders](#), A.E. Cravens, R. Nelson, N. Ulibarri, “How to slay your undead research projects,” *Nature Careers*.
- 2022 A.E. Cravens, R. Nelson, [A.R. Siders](#), N. Ulibarri, “Why four scientists spent a year say no,” *Nature Careers* [[link](#)].
- 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](#), 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](#)].

**SELECTED RECENT PRESENTATIONS**select videos at: [shorturl.at/vCNS2](https://shorturl.at/vCNS2)

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- 2023 Association for Public Policy Analysis & Management, Adaptation Ethics Panel, Nov 9-11.
- 2023 Columbia University, Managed Retreat Conference, June 21-24.
- 2023 National Public Radio, Climate Media Summit, June 5.
- 2023 FEMA Puerto Rico, Workshop, Community-driven relocation as a strategy for fair adaptation, Apr 12.
- 2023 Ocean Visions Summit 2023, Keynote Speaker on Climate Adaptation, Apr 5.
- 2023 Ludic Solarites Panel, Situated Solar Relations, Solar Collective, Concordia, May 11.
- 2023 American Association of Geographers, Panel on Human Mobility, Mar 24.
- 2023 White House Workshop on Climate Change Education, March 8-9.
- 2022 New Jersey Association of Floodplain Managers, Plenary Panel, Oct 27.
- 2022 Potsdam Institute for Climate Impact Research (PIK), Expert Workshop on Climate Sensitivity of Human Mobility, Dec 14-16.
- 2022 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 – [Website](#)
- 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 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](#)

## **POLICY EXPERIENCE**

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- 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.
- 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.
  - 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.

## **PROFESSIONAL SERVICE**

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- Engagement National Climate Assessment, 5<sup>th</sup>, USGCRP, Contributing Author  
Louisiana Coastal Protection and Restoration Authority, Coastal Master Plan Technical Advisory Committee (2021-present)
- Editor PlosClimate (Associate Editor; 2022-present)  
Journal of Environmental Studies and Sciences (Assistant Editor; 2018-2022)  
Harvard Human Rights Journal (Editor-in-chief, 2009-10)

## **TEACHING AREAS**

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Climate Adaptation ▪ Climate Mitigation Policy ▪ Environmental Justice and Disasters ▪ Public Policy Analysis ▪ Research Design ▪ Climate Science, Fiction, and Communication

## **RECENT MEDIA COVERAGE**

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Science Friday ▪ National Public Radio ▪ New York Times ▪ Bloomberg ▪ The Times (UK) ▪ NBC Boston