

# A.R. SIDERS

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## EDUCATION

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### Degrees

- 2018 **PhD.**, Stanford University, 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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- 2019 – pres. **Assistant Professor**, University of Delaware, Biden School of Public Policy and Administration, Geography and Spatial Sciences, Core Faculty Disaster Research Center
- 2018 – 19 **Environmental Fellow**, Harvard University Center for the Environment
- 2012 – 13 **Associate Director** & Postdoctoral Research 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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### Peer-Reviewed Journal Articles

- 2019 [A.R. Siders](#) & J. Keenan, "Variables shaping coastal adaptation decisions to armor, nourish, and retreat in North Carolina," *Ocean and Coastal Management*.
- 2019 [A.R. Siders](#), C. Hulet, "Climigration and the private sector," *Community Development Investment Review* (Federal Reserve Bank of San Francisco).
- 2019 [A.R. Siders](#), "Managed retreat in the United States," *One Earth*.
- 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*.
- 2019 [A.R. Siders](#), M. Hino, K. Mach, "A case for strategic and managed retreat," *Science*.
- 2019 [A.R. Siders](#), "Adaptive capacity to climate change: A systematic review and synthesis of methods, concepts, and findings," *WIREs Climate Change*.
- 2018 [A.R. Siders](#), "Social justice implications in U.S. managed retreat buyout programs," *Climatic Change*.
- 2017 [A.R. Siders](#), "A role for urban climate adaptation strategies: Lessons from London, UK," *Regional Environmental Change*.

- 2016 E. Grubert & [A.R. Siders](#), “Benefits and applications of interdisciplinary digital tools for environmental reviews and analysis,” *Environmental Research Letters*.
- 2016 [A.R. Siders](#), R. Stanley, & K.M. Lewis, “A proposal for dynamic ocean management in the Bering Strait region,” *Marine Policy*.

### Book Chapters

- 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).
- 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).

### Selected Policy Reports

- 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).
- 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).
- 2013 E. Pless, [A.R. Siders](#), L. Steinbaum, A. Stokenberga, *Livelihood, Security, and Access to Services among Urban Refugees in Delhi, India* (Joint IDP Profiling Services,).
- 2011 E. Heider, K. McLean, [A.R. Siders](#), K. Mosteller, *Africa Partnership Station 2011 Operational Assessment* (U.S. Navy Internal Report).
- 2010 B. Docherty, S. Knox, L. Pappone, [A.R. Siders](#), *Bearing the Burden: The Effects of Mining on First Nations in British Columbia* (Harvard International Human Rights Clinic).

### Selected Other Publications

- 2020 P. Marchman, [A.R. Siders](#), K. L. Main, V. Hermann, D. Butler, “Planning relocation in response to climate change: Multifaceted adaptations,” *Planning Theory & Practice*.
- 2018 [A.R. Siders](#), R script for creating a cross-citation network, GitHub repository.
- 2018 [A.R. Siders](#), “Government-funded buyouts after disasters are slow and inequitable – here’s how that could change,” *The Conversation*.
- 2017 [A.R. Siders](#), “Past US floods give lessons in retreat,” *Nature Correspondence* 548: 281.
- 2017 [A.R. Siders](#), “Art and science in the Watersnood Museum: Remembering the Netherlands’ deadliest flood,” *Europe Up Close*.
- 2013 [A.R. Siders](#), “Anatomy of a buyout: New York post-Sandy,” *Proceedings of the 16<sup>th</sup> Conference on Litigating Takings Challenges to Environmental Regulations*.

## SELECTED PRESENTATIONS

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### Confirmed Future Invited Talks

- 2020 American Association for the Advancement of Science (AAAS) Annual Meeting, *Visions for Ocean Solutions*, February 15 [Panel].
- 2020 Columbia University, Climate Heritage Conference – Toward Sustainability and Equity: Envisioning Preservation Policy Reform, February 6-7.
- 2020 Climate Adaptation Academy, University of Connecticut, Managed Retreat Workshop, March 20 [Keynote].
- 2020 Strategic and managed retreat workshop, Observer Research Foundation, India, June

### Invited Talks

- 2020 Georgia Institute of Technology, Civil and Environmental Engineering Cross-Cutting Resilience Research Seminar, Jan.
- 2020 Mid-Atlantic Climate Resilience, *20-20 Visions Conference*, Citizens Climate Lobby, Wilmington, Jan.
- 2020 Resilient and Sustainable Communities League (RASCL), Dover, Jan.
- 2019 Middlebury Institute of International Studies, *Managed Retreat in California*, Nov.
- 2019 New Yorker Festival, *Climate Change and Coastal Resilience*, October 11 [Panel].
- 2019 Newburyport Storm Surge, At What Point Retreat? November 6.
- 2019 Natural Resources Defense Council, Building Better Buyouts Workshop, October.
- 2019 Ocean Visions Climate Summit, Georgia Institute of Technology, *Adaptive socio-ecological systems in coastal climate adaptation*, April 1-4 [Keynote].
- 2019 New England Environmental Business Council, Adaptation Forum, *The R Word: Retreat, Relocation, and Climate Resilience*, March 1.
- 2018 Breakthrough Institute Dialogue, *Sea Level Rise: How worried should we be?* June 21.
- 2017 University of Rhode Island, Coastal Institute and Marine Policy, *Adaptive capacity and social justice in coastal resilience*, November 27.
- 2017 Notre Dame University, Adapting to Climate Change Workshop, *Who stays and who goes? U.S. managed retreat decision criteria*, April 30.
- 2015 University of the Philippines, School of Urban and Regional Planning, *Climate Change Adaptation in Urban Planning*, September 6 [Keynote].
- 2015 Harvard Project for Asian and International Relations, *Energy and Sustainability*, De La Salle University, Manila, Philippines, August 22 [Panel].
- 2015 Florida Earth Foundation, Big Data and Decision Makers in Water Sustainability Conference, *Digital humanities in environmental governance*, August 12.
- 2013 Stony Brook University, Hurricane Sandy Symposium, *Adapting to Coastal Storms: Success and Failure Post-Sandy*, April 10.
- 2012 Council of State Governments: East, Executive meeting, *Extreme Weather Events: Role of State Legislatures in Resilience*, November 5 [Keynote].

### Conference Activity

- 2019 Columbia University Earth Institute, *At What Point Managed Retreat?* June 19-21.
- 2019 Kiel University, Germany, *Narratives and Discourses in Environmental Justice*, June 6-9.
- 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 [Presentation; Session chair].
- 2017 Digital Humanities Conference, Montreal, Canada, August 11-14 [Poster; award-winner].
- 2017 National Adaptation Forum, Saint Paul, MN, May 9.
- 2016 American Association of Geographers Annual Meeting, San Francisco, CA, March 8.
- 2015 American Society of International Law and Red Cross Workshop on Disaster and Environmental Law, *Principles for Coherence in Development Agenda*, May 21-23.

### RELEVANT 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  
Researched and advocated for legal strategies to promote coastal resilience. Drafted legislation. Led advocacy efforts in utility rate case to include climate adaptation in utility storm-hardening measures. Supported developing states in UNFCCC negotiations.
- 2010 – 12 **Presidential Management Fellow**, U.S. Navy  
Top secret clearance (2010). Select accomplishments include:
  - NATO Shipping Centre, *NATO Maritime Command*, Northwood, UK  
Led multinational effort to promote protective counter-piracy measures in regional shipping communities in Middle East and East Africa.
  - 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.
  - 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.

## FELLOWSHIPS, GRANTS, AND AWARDS

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### 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

### Grants and research funding

- 2016, 2017 Graduate Research Grant, Environment and Resources, Stanford (\$8,000)
- 2015 Ann and Reid Buckley Collaboration Research Grant (Climate Change Policy) (\$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 Fund grant to organize national security law conference (\$10,000)
- 2009 Millbank Fund grant to organize international human rights conference (\$10,000)
- 2009 Heyman Public Service Summer Fellowship (\$5,000)
- 2008 Chayes International Public Service Fellowship (\$5,000)
- 2007 Goelet Fund for Research in Anthropology, Harvard College (\$1,600)

### Prizes and Awards

- 2018 Association of Digital Humanities Organizations Bursary Award (Early Career Award)
- 2015 Florida Earth Foundation Young Scholar
- 2010 Dean's Award for Community Leadership, Harvard Law School
- 2007 Endicott Peabody Saltonstall Prize (for public service leadership potential) (\$5,000)

## TEACHING EXPERIENCE

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### Classroom Instruction

- 2019 University of Delaware, *Climate Adaptation Policy* (undergraduate and graduate)
- 2019 Harvard Graduate School of Design, *Miami Resilience in Housing and Infrastructure* (graduate, co-instructor)
- 2015 Stanford Law School, *Policy Lab: Catalyzing Nature Based Solutions for Flood and Coastal Defense* (graduate) (co-instructor and course developer)
- 2015 Stanford, Environment & Resources, *Designing Environmental Research* (graduate) (TA)
- 2014 Stanford, Civil and Environmental Engineering, *Climate Change Adaptation in Coastal Cities* (undergraduate and graduate) (course developer and instructor)

### Guest Lectures (Selected)

- 2019 University of Delaware, *Weather* (English & Art History), *Plan Sustainable Communities and Regions* (Biden School & Geography), *Prelude to Geography* (Geography), *Environmental Policy* (Biden School), *Doctoral Dissertation Proposal Workshop* (Biden School), *Civil Infrastructure Systems and Transportation Seminar* (Engineering)
- 2019 Stanford University, *Environmental Policy* (Environment and Resources)

- 2019 University of Colorado, Boulder, *Environmental Governance*
- 2016 San Jose State University, *Geology 7: Earth, Time, and Life*
- 2015 Stanford University, *Social Ocean: Ocean Conservation, Management, and Policy*
- 2013 Columbia Law School, *Advanced Climate Change Law Seminar*

#### **Webinars and Online Video Series**

- 2019 The Nature Conservancy, New York Division, “Managed Retreat,” August.
- 2019 American Society of Adaptation Professionals, Managed Retreat Group, June.
- 2016 EMI Webinar Series, “Nature-Based Strategies for Coastal Flood Defense,” Jan. 20
- 2015 EMI Webinar Series, “Climate Change Adaptation and Disaster Risk Reduction: Tools for Integration,” Sep. 4.
- 2013 Council of State Governments: East Video Series, “Managed Retreat Case Studies and Lessons Learned,” Aug. 12.

### **STUDENT ADVISING AND RESEARCH SUPERVISION**

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#### **PhD Advising**

- Logan Gerber-Chavez, PhD student, Disaster Science & Management, University of Delaware, Committee member
- Emily Aiken, PhD student, Geography, University of Delaware, Committee member

#### **Master’s Advising**

- Jeffrey Chubbs, MS student, Energy and Environmental Policy, University of Delaware, Analytical paper reader (anticipated 2020)
- Matthew Kirchoff, MS student, Energy and Environmental Policy, University of Delaware, Analytical paper advisor (anticipated 2020)
- Emily Flynn, MA student, Harvard Extension School, Primary advisor (anticipated 2020)
- Mali’o Kodis, MS student, UC Santa Barbara, External advisor (anticipated 2020)
- Brian Capobianco, MS student, Energy and Environmental Policy, University of Delaware, Committee member (anticipated 2020)
- Michelle Woody, MS student, Disaster Science and Management, University of Delaware, Reader (anticipated 2020)
- Collyn Chan, MS, MIT Department of Urban Planning, Reader (2019)

#### **Legal Research Advising**

- 2012 – 13 Research advisor, Undergraduate and graduate students, summer projects (7 students), Center for Climate Change Law, Columbia University
- 2007 – 10 Pre-Law Advisor, Kirkland House, Harvard College

## PROFESSIONAL SERVICE

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### Departmental and University Service

- 2019 – pres. International Committee, Member, Biden School of Public Policy and Administration, University of Delaware
- 2014 – 18 Student archive database manager, Emmett Interdisciplinary Program in Environment and Resources (E-IPER), Stanford University
- 2013 – 18 Dissertation writing group, E-IPER, Stanford University
- 2013 – 14 Student liaison, Admissions Committee, E-IPER, Stanford University

### Editor

- 2020 – pres. Editorial Board, *SciNotes*
- 2018 – pres. Assistant Editor, *Journal of Environmental Studies and Science*
- 2009 – 10 Editor-in-chief and co-founder, *Harvard National Security Journal*
- 2009 – 10 Editor-in-chief, *Harvard Human Rights Journal*
- 2008 – 10 Editor, *Harvard Environmental Law Journal*

### Reviewer

*WIREs Climate Change, Mitigation and Adaptation Strategies for Global Change, Regional Environmental Change, Latin American Research Review, Ocean & Coastal Management, Climatic Change, Maritime Policy & Management, Marine Policy, Arctic Anthropology, Journal of Environmental Planning and Management*

### Conference Organization

- 2018, 2019 Association for Environmental Studies & Sciences, Conference Committee
- 2017 - 2020 Association of Digital Humanities Organizations, Conference Reviewer

### Leadership Positions

- 2019 – Global Center for Climate Resilience, Thought Leader
- 2019 – Forerunner, Advisory Board
- 2019 – Ocean Visions, Fellow
- 2019 – Stimson Center, Coastal Ocean Resilience Vulnerability Index advisor
- 2019 – Hawai'i Philanthropy Foundation, Advisory Board
- 2018 – 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

## SELECTED RECENT MEDIA COVERAGE

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- 2019 Bloomberg, "[Americans Start Adapting to Climate Change. They're Doing it Wrong,](#)" Nov. 7.
- 2019 Science Friday, "[As Seas Rise and Rivers Flood, Communities Look for a Way Out,](#)" October 18.
- 2019 National Public Radio, "[Sweeping Study Raises Questions About Who Benefits from Buyouts of Flood-Prone Homes,](#)" October 9.
- 2019 New York Times, "[Rich Counties get More Help to Escape Climate Risk,](#)" October 9.
- 2019 Vice, "[We Need to Talk about a Planned Retreat from Climate Disaster Zones Now,](#)" 20 September.
- 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 Harvard Magazine, "[Scholars Advocate 'Managed Retreat' before Climate Change Sinks Coastlines,](#)" August 22.
- 2019 New York Times, "[How to Rebound After a Disaster: Move, Don't Rebuild, Research Suggests,](#)" August 22.
- 2019 State of the Planet, "[Conference raises tough questions about retreat from rising seas,](#)" July 17
- 2019 Vice, "[This is what America Could Look Like When Our Coasts are Under Water,](#)" July 23
- 2019 National Public Radio, "[Considering 'Managed Retreat',](#)" June 23.