

# ZACHARY DOVE

Harris School of Public Policy • University of Chicago  
1307 E. 60th Street, Chicago, IL 60637  
Email: [dovez@uchicago.edu](mailto:dovez@uchicago.edu)

## ACADEMIC APPOINTMENTS

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2025 - present Postdoctoral Scholar

*Harris School of Public Policy, University of Chicago*

*Advisors:* Dr. Kim Wolske, Dr. Udayan Singh (Argonne National Laboratory)

2025 - 2025 Postdoctoral Scholar

*Center for Reimagining Leadership and Center for Coastal Climate Resilience,  
University of California, Santa Cruz*

*Advisor:* Dr. Sikina Jinnah

## EDUCATION

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UNIVERSITY OF CALIFORNIA, SANTA CRUZ, Santa Cruz, CA

**PhD**, Politics (Honors), 2025

*Dissertation:* “Governance by Engagement and Justice in Emerging Technology

Governance: The Case of Solar Geoengineering”

*Advisor:* Dr. Sikina Jinnah

*Committee:* Dr. Sikina Jinnah, Dr. David Gordon, Dr. Shuchi Talati, Dr. Juan Pedroza

UNIVERSITY OF CALIFORNIA, SANTA CRUZ, Santa Cruz, CA

**MA**, Politics (Honors), 2023

WESTERN WASHINGTON UNIVERSITY, Bellingham, WA

**BA**, Political Science (Honors) and Fairhaven College, 2016

*Thesis:* “The Transnational Diffusion of the Climate Justice Frame”

*Advisors:* Dr. Debra Salazar, Dr. Sara Singleton

## PUBLICATIONS

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### *Journal Articles*

2025 Jinnah, Sikina, and **Zachary Dove**. “Solar radiation management: a history of the governance and political milestones. *Environmental Science: Atmospheres* 5(6): 651-730. <https://doi.org/10.1039/D5EA00008D>

2024 **Dove, Zachary**, Arien Hernandez, Shuchi Talati, Sikina Jinnah. “Global perspectives on solar geoengineering: A novel framework for analyzing research in pursuit of effective,

inclusive, and just governance.” *Energy Research & Social Science* 118:103779. <https://doi.org/10.1016/j.erss.2024.103779>.

2024 Dove, Zachary, Sikina Jinnah, Shuchi Talati. “Building capacity to govern emerging climate intervention technologies.” *Elementa: Science of the Anthropocene* 12 (1): 00124. <https://doi.org/10.1525/elementa.2023.00124>

2021 Dove, Zachary, Joshua Horton, and Katharine Ricke. “The Middle Powers Roar: Exploring a Minilateral Solar Geoengineering Deployment Scenario.” *Futures* 132 (September): 102816. <https://doi.org/10.1016/j.futures.2021.102816>.

2019 Jinnah, Sikina, Simon Nicholson, David R. Morrow, **Zachary Dove**, Paul Wapner, Walter Valdivia, Leslie Paul Thiele, et al. “Governing Climate Engineering: A Proposal for Immediate Governance of Solar Radiation Management.” *Sustainability* 11 (14): 3954. <https://doi.org/10.3390/su11143954>.

2019 Laurens, Noémie, **Zachary Dove**, Jean-Frédéric Morin, and Sikina Jinnah. “NAFTA 2.0: The Greenest Trade Agreement Ever?” *World Trade Review* 18(4): 659-667. <https://doi.org/10.1017/S1474745619000351>.

### Books

Jinnah, Sikina, **Zachary Dove** (co-first author), Erika Check Hayden, Alice Siu, Mahmud Farooque, and Shuchi Talati. *Building Capacity for Public Engagement on Solar Geoengineering*. Accepted for publication at Cambridge University Press.

### Book chapters

2022 Laurens, Noémie, **Zachary Dove**, Jean-Frédéric Morin, and Sikina Jinnah. “NAFTA and the Environment: Decades of Measured Progress. In *NAFTA 2.0. Canada and International Affairs*, edited by Gilbert Gagné and Michèle Rioux Palgrave Macmillan, Cham. [https://doi.org/10.1007/978-3-030-81694-0\\_11](https://doi.org/10.1007/978-3-030-81694-0_11)

## RESEARCH INTERESTS

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Global environmental politics, climate policy, governance of emerging technologies, public engagement, governance of solar geoengineering, carbon dioxide removal, and methane removal.

## OTHER RESEARCH APPOINTMENTS

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**University of California, Santa Cruz**

*CRL Graduate Student Research Fellow*

2023-2025

Center for Reimagining Leadership

*Graduate Student Researcher*

2022-2023

Strategic Planning Committee on Climate Change, Sustainability, and Resilience

*Graduate Student Researcher*  
Environmental Studies

2018-2020

**Alliance for Just Deliberation on Solar Geoengineering (DSG)**  
*Research Fellow*

2022- 2024

## WORKS IN PROGRESS

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### *Journal Articles*

**Dove, Zachary**, María Inés Carabajal, Julia Guivant, Chris Lennard, Hassaan Sipra, Portia Williams, and Sikina Jinnah. “Solar Radiation Management and Anticipatory Diplomacy: Exploring the Implications of an Expanding Role for the Global South.” Manuscript in preparation.

**Dove, Zachary**, and Sikina Jinnah. “Governance by Engagement and Global Climate Politics: Cases from Novel Climate Intervention Technologies” Manuscript in preparation.

**Dove, Zachary** “Solar geoengineering expert perceptions of public engagement” Manuscript in preparation.

Pues, Delaney, Valeria Cuevas, Anna Bridel, **Zachary Dove**, and Sikina Jinnah. “Rethinking Carbon Dioxide Removal: A Justice-Centered Analysis of CDR Perspectives Research” Manuscript under review.

## FELLOWSHIPS & AWARDS<sup>1</sup>

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Politics Department Conference/Research Funding Support Fellowship	2024
GSA Graduate Student Cultivation Grant Award	2021
Politics Department Traveling Funding	2019
Regents Fellowship	2018

## CONFERENCE & SYMPOSIUM PARTICIPATION

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2025 *Presentation*, “Governance by Engagement: Lessons from the SPICE Project and The Degrees Initiative for the Governance of Arctic Repair” Arctic Repair 2025, Centre for Climate Repair, Cambridge, United Kingdom

2024 *Project Update*, “Engaging Coastal Climate Vulnerable Communities in CA Policy Making on Solar Geoengineering” Center for Coastal Climate Resilience Project Symposium, University of California, Santa Cruz, CA

2024 *Poster*, “Global Perspectives of Solar Geoengineering: Pathways for Enhancing Effective, Inclusive, and Just Governance” Association for Environmental Studies and Sciences Annual Conference, Virtual

<sup>1</sup> Awards are associated with the University of California, Santa Cruz, unless otherwise noted.

2024 *Paper*, “Global Perspectives of Solar Geoengineering: Pathways for Enhancing Effective, Inclusive, and Just Governance” International Studies Association Annual Conference, San Francisco, CA

2024 *Paper*, “Building Capacity to Govern Solar Geoengineering” International Studies Association Annual Conference, San Francisco, CA

2023 *Paper*, “Building Capacity to Govern Solar Geoengineering” Society for Social Studies of Science Annual Conference, Honolulu, HI

2023 *Discussant*, “US Public Perspectives of Carbon Removal.” Carbon Removal Colloquium Series, Institute for Carbon Removal Law and Policy

2021 *Presentation*, “Strategies for building and sustaining meaningful public engagement in solar geoengineering research” (With Ambuj Sagar and Peter Frumhoff). Climate Engineering in Context Conference 2021, Virtual

2021 *Paper*, “The Politics of Public Engagement in Solar Geoengineering Research and Governance: What Does Meaningful Public Engagement Require?” American Geophysical Union Fall Meeting, Virtual [Cancelled]

2020 *Chair*, Panel, Emerging Technologies and Global Environmental Wellbeing, International Studies Association Annual Conference, Honolulu, HI [Cancelled]

2020 *Paper*, “Youth, Agency, and Authority in Global Climate Governance” International Studies Association Annual Conference, Honolulu, HI [Cancelled]

2019 *Paper*, “NAFTA 2.0: The Greenest Trade Agreement Ever?” International Studies Association Annual Conference, Toronto, ON

2015 *Paper*, “Examining Environmental Injustice: The Treadmill of Production and the Pesticide Industry”, Political Science Association of Western Washington University, Annual Conference, Bellingham, WA

## TEACHING INTERESTS

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International environmental politics; climate policy; public engagement and political participation; politics of emerging technologies; climate justice, research fundamentals

## TEACHING EXPERIENCE<sup>2</sup>

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### Teaching Assistant

2021 *International Environmental Politics*, Department of Environmental Studies

2021 *Environmental Policy and Economics*, Department of Environmental Studies

2020 *International Law*, Department of Politics

2020 *Environmental Policy and Economics*, Department of Environmental Studies

2020 *Theories of World and International Politics*, Department of Politics

<sup>2</sup> Teaching positions are associated with the University of California, Santa Cruz, unless otherwise noted.

2020 *Security, War, Conflict, and Violence*, Department of Politics  
2019 *International Law*, Department of Politics  
2019 *U.S. and the World Economy*, Department of Politics  
2019 *Theories of World and International Politics*, Department of Politics

## WORKSHOP PARTICIPATION

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2025 *Methane Removal Summit and Workshop*, Stanford University  
2023 *Solar Geoengineering Justice*, Stanford University  
2023 *Marine Geoengineering*, Scripps Institute, University of California, San Diego  
2019 *Sixth International Geoengineering Governance Summer School*, Banff, AB

## MENTORSHIP EXPERIENCE

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2023 - 2024 UCSC GradPath Mentoring Program  
2023 - 2024 Co-mentor, undergraduate research: Marcella Kolpin (Frontiers Fellow)  
2022 - 2023 Co-mentor, undergraduate research: Arien Hernandez (Building Belonging Fellow)

## PUBLIC RESEARCH AND OUTREACH

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### *White papers*

2023 Dove, Zachary, and Shuchi Talati. 2023. *Building Capacity to Govern Solar Geoengineering*. Washington, DC: The Alliance for Just Deliberation on Solar Geoengineering.

### *Blog posts*

2024 Dove, Zachary. [Governance capacity building: What it is, why it's needed now, and how we should do it](#). August 15, 2024. The Alliance for Just Deliberation on Solar Geoengineering.

### *Issue briefs*

2024 Jinnah, Sikina, and Zachary Dove. *Issue Brief on SRM Governance*, prepared for the UN Scientific Advisory Board Expert Roundtable on SRM

## PROFESSIONAL MEMBERSHIP

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International Studies Association - Environmental Studies Section  
Association for Environmental Studies and Sciences

## **SELECT COURSEWORK**

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Research Approaches in Environmental Studies  
Environmental Studies in Practice  
Who Governs the Globe? Exploring Agency and Authority in Contemporary World Politics  
Logics of Inquiry  
Fundamentals of Political Research  
Methods of Quantitative Analysis  
States and Political Institutions Core Seminar  
Political Economy Core Seminar  
Social Forces and Political Change Core Seminar  
Topics in Research in Environmental Studies

## **References**

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Dr. Sikina Jinnah  
Department of Environmental Studies, UC Santa Cruz  
[sjinnah@ucsc.edu](mailto:sjinnah@ucsc.edu)

Dr. David Gordon  
Department of Politics, UC Santa Cruz  
[dagordon@ucsc.edu](mailto:dagordon@ucsc.edu)