

Trisha R. Shrum

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PERSONAL WEBSITE: www.trishashrum.com

ASSOCIATE PROFESSOR AT THE UNIVERSITY OF VERMONT
DEPARTMENT OF COMMUNITY DEVELOPMENT & APPLIED ECONOMICS

Co-Director of the Social Ecological Gaming and Simulation (SEGS) Lab
Masters of Public Administration Program Faculty
Sustainable Development, Policy, Economics, & Governance Doctoral Program Faculty
Gund Institute for the Environment Faculty Fellow
Transportation Research Center Faculty Affiliate
Environmental Sciences Faculty Affiliate

RESEARCH SPECIALIZATION: HUMAN BEHAVIOR AND THE ENVIRONMENT

Academic Fields: Environmental/Behavioral/Experimental Economics, Environmental Science, Behavioral Science, Environmental Policy, Decision-Making Under Risk & Uncertainty

Focal Problems of Study: Climate Change, Sustainability, Intergenerational Decision-Making, Water (Drought, Flood), Agricultural Risk Management

Appointments held

2024-2024	Associate Professor, Community Development & Applied Economics, University of Vermont
2018-2024	Assistant Professor, Community Development & Applied Economics, University of Vermont
2016-2018	Post-Doctoral Research Associate, Earth Lab, University of Colorado, Boulder

Education

2016	DOCTOR OF PHILOSOPHY in Public Policy, Harvard University Dissertation Committee: Joseph Aldy, David Laibon, Todd Rogers, Robert Stavins
2009	MASTERS OF ENVIRONMENTAL SCIENCE, Yale School of the Environment Masters Thesis Advisor: Robert Mendelsohn
2006	BACHELOR OF ARTS in Environmental Science, University of Kansas

Publications & Presentations

* Indicates the co-author is a graduate or undergraduate advisee

JOURNAL ARTICLES

- 2024 Burgess, M.G., Van Boven, L., Wagner, G., Wong-Parodi, G., Baker, K., Boykoff, M., Converse, B.A., Dilling, L., Inbar, Y., Markowitz, E., Moyer, J.D., Newton, P., Raimi, K., **Shrum, T.R.**, Vandenberg, M. Supply, demand, and polarization challenges facing U.S. climate policies. *Nature Climate Change*. 14: 134–142. <https://doi.org/10.1038/s41558-023-01906-y>
- 2024 Gould, R., **Shrum, T.R.**, Iglesias, V., Ramirez-Harrington, D.. Extreme event experience increases willingness-to-pay for climate mitigation policy. *Global Environmental Change*. 85: 102795. <https://doi.org/10.1016/j.gloenvcha.2023.102795>
- 2024 Soares, R., C. Koliba, S.C. Merrill, **T. Shrum**, R. Quainoo, M. Myers*, M. Ali Khan.*, J.A. Balerna, & E. Spett*. Stakeholders' perceptions of the 2023 historic floods in Vermont. Risk Communication, Crisis Response, Vulnerability and Lessons Learned. *Proceedings of the International Crisis and Risk Communication Conference*, 6(95–99). <http://www.doi.org/10.69931/AYIR6279>
- 2024 Quainoo, R., Merrill, S.C., Soares, R., Myers, M.*, Ali-Khan, M.*, **Shrum, T.**, & Balerna, J.A. A National Survey of Flood Hazard Crisis and Risk Perceptions in the United States. *Proceedings of the International Crisis and Risk Communication Conference* 6(70–74). <http://www.doi.org/10.69931/UBBE7512>.
- 2023 Syropoulos, S., Markowitz, E., Demarest, B., **Shrum, T.R.**. A letter to future generations: Examining the effectiveness of an intergenerational framing intervention. *Journal of Environmental Psychology*. 90: 102074. <https://doi.org/10.1016/j.jenvp.2023.102074>
- 2023 **Shrum, T.R.**, Platt, N. *, Syropoulos, S., Markowitz, E. (2023). A Scoping Review of the Green Parenthood Effect on Environmental and Climate Engagement. *Wiley Interdisciplinary Reviews Climate Change*. <https://doi.org/10.1002/wcc.818>
- 2022 Liu, T.L. *, Merrill, S.C., O'Keefe, A., Clark, E.M., Langle-Chimal, O., Trinity, L., **Shrum, T.R.**, Koliba, C., Zia, A., Smith, J.M. Effects of Message Delivery on Cross-cultural Biosecurity Compliance: Insights from Experimental Simulations. *Frontiers in Veterinary Science*. 9: 984945. <https://doi.org/10.3389/fvets.2022.984945>
- 2022 Clark, E.M, Merrill, S.C., Trinity, L., Liu, T.*, O'Keefe, A., **Shrum, T.R.**, Bucini, G., Cheney, N., Langle-Chimal, O.D., Koliba, C., Zia, A., Smith, J.M. Comparing behavioral risk assessment strategies for quantifying biosecurity compliance to mitigate agricultural disease spread. *Frontiers in Veterinary Science*. 9:962989. <https://doi.org/10.3389/fvets.2022.962989>
- 2022 Koliba, C., Merrill, S., Zia, A., Wiltshire, S., Bucini, G., Clark, E., Trinity, L., **Shrum, T.R.**, Smith, J. Assessing Strategic, Tactical, and Operational Decision-Making and Risk in a Livestock Production Chain Through Experimental Simulation Platforms. *Frontiers in Veterinary Science*. 9:962788 <https://doi.org/10.3389/fvets.2022.962788>
- 2022 **Shrum, T.R.** and Travis, W.R. (2022). Experiments in Ranching: Rain-Index Insurance and Investment in Production and Drought Risk Management. Invited Peer-Reviewed Paper. *Applied*

Economic Perspectives and Policy. 44 (3): 1513-1533. <https://doi.org/10.1002/aep.13304>

- 2022 **Shrum, T.R.**, Nowak, S.A., Merrill, S.C., Hanley, J.P., Liu, T.* , Clark, E.M., Zia, A., Koliba, C. (2022). Pro-Environmental Attitudes, Altruism, and COVID-19 Risk Management Behavior. *Journal of Risk Research*. 1-16. <https://doi.org/10.1080/13669877.2022.2067891>
- 2022 Ryan, B.E.K.* , **Shrum, T.R.**, Zia, A. (2022). Assessing Farmer Incentives for Transitioning Towards Sustainable Agriculture and Provisioning of Clean Water. *Frontiers in Water, section Water Resource Management* 4:918035. <https://doi.org/10.3389/frwa.2022.918035>
- 2021 Merrill, S.C., Trinity, L., Clark, E.M., **Shrum, T.R.**, Koliba, C.J., Zia, A., Bucini, G., Sellnow, T.L, Sellnow, D.D., Smith, J.M. (2021). Message delivery strategy influences willingness to comply with biosecurity. *Frontiers in Veterinary Science, section Veterinary Humanities and Social Sciences* 8, 668. <https://doi.org/10.3389/fvets.2021.667265> .
- 2021 **Shrum, T.R.** (2021). The salience of future impacts and the willingness to pay for climate change mitigation: an experiment in intergenerational framing. *Climatic Change* 165(1): 1-20. <https://doi.org/10.1007/s10584-021-03002-6>.
- 2021 Clark, E.M., Merrill, S.C., Trinity, L., Bucini, G., Cheney, N., Langle-Chimal, O., **Shrum, T.R.**, Koliba, C., Zia, A., Smith, J. (2021). Emulating Agricultural Disease Management: Comparing Risk Preferences Between Industry Professionals and Online Participants Using Experimental Gaming Simulations and Paired Lottery Choice Surveys. *Frontiers in Veterinary Science*, 7: 1-12. <https://doi.org/10.3389/fvets.2020.556668>.
- 2020 Balch, J., Iglesias, V., Braswell, A., Rossi, M., Joseph, M.B., Mahood, A.L., Travis, W., **Shrum, T.R.**, White, C.T., Scholl, V. and McGuire, B. (2020). Social-environmental extremes: Rethinking extraordinary events as outcomes of interacting biophysical and social systems. *Earth's Future*, 8, e2019EF001319. <https://doi.org/10.1029/2019EF001319>
- 2020 **Shrum, T.R.**, Markowitz, E., Buck, H., Gregory, R., van der Linden, S., Attari, S. Z., Van Boven, L. (2020). Behavioural frameworks to understand public perceptions of and risk response to carbon dioxide removal. *The Royal Society: Interface Focus*, 10(5), 20200002. <https://doi.org/10.1098/rsfs.2020.0002>.
- 2020 Clark, E.M., Merrill, S.C., Trinity, L., Bucini, G., Cheney, N., Langle-Chimal, O., **Shrum, T.R.**, Koliba, C., Zia, A. and Smith, J.M. (2020). Using Digital Field Experiments To Elicit Risk Mitigation Behavioral Strategies For Disease Management Across Agricultural Production Systems. *PLoS ONE*, 15(3): 1-18. <https://doi.org/10.1371/journal.pone.0228983>.
- 2018 **Shrum, T.R.**, Travis, W.R., Williams, T.R.* , Lih, E* . (2018). Managing Climate Risks on the Ranch with Limited Drought Forecasts. *Climate Risk Management*, 20: 11-26. <https://doi.org/10.1016/j.crm.2018.01.002>

PRE-PRINTS & MANUSCRIPTS UNDER REVIEW

Shrum, T.R., Christopher Donovan, Sadie Bloch, Emma Cripps, and Ceclia Boyson. The REBL Score: A dynamic measure of pro-environmental behavior. Under review at *Nature Human Behavior*. Preprint: <https://osf.io/preprints/osf/w92se>

Balerna, J.A., B. Fisher, B. Wemple, M. Myers, R. Soares, M. Ali Khan, R. Quainoo, S.C. Merrill, & **T. Shrum**. Public perceptions and preferences for mitigating flood risk via nature-based solu-

tions. Under review at *People and Nature*.

Shrum, T.R., Molokandov, R.* Learning to Love the Warm Glow: Endogenous Preferences and Intrinsic Motivation. Preprint: <https://dx.doi.org/10.2139/ssrn.3837023>

Langle-Chimal, O.D.*, Merrill, S.C., Clark, E.M., Bucini, G., Liu, T.L.*, **Shrum, T.R.**, Koliba, C., Zia, A., Smith, J.M., Cheney, N.. Temporal Evolution of Risk Behavior in a Disease Spread Simulation. Preprint: <https://arxiv.org/abs/2305.16600>

POLICY WHITE PAPERS

- 2024 Koliba, C., Soares, R., Merrill, S., **Shrum, T.**, Quainoo, R., Myers, M., Ali Kahn, M., Balerna, J., Spett, E. On Matters of Life and Death: Recommended Actions to Improve the Safety of Vermonters During Major Flooding Events. University of Vermont Cooperative Institute for Research to Operations in Hydrology. March 8, 2024.
- 2009 **Shrum, T.R.** (2009) The Carbon Tax. in H. Girardet & M. Mendoca (Eds.), *A Renewable World: Energy, Ecology, Equality*, Green Books.
- 2008 **Shrum, T.R.** (2008) Additional Costs of the Proposed Holcomb Coal Plant Expansion under the Lieberman-Warner Bill (S.2191), policy analysis prepared for the Kansas State Legislature.
- 2006 **Shrum, T.R.** “Greenhouse Gas Emissions: Policy and Economics,” white paper prepared for the State of Kansas Energy Council and published by CarbonTax.org.

REFEREED PRESENTATIONS & PROCEEDINGS

† Indicates presenter

- 2024 Shrum, T.[†], Demarest, B., Merrill, S., Mays, K. The shape of climate stories to catalyze engagement. National Sustainability Society Annual Conference. September 9-11, 2024. Seattle, Washington.
- 2024 Soares, R.[†], Merrill, S., Koliba, C., Spett., E., Quainoo, R., Myers, M.*, Ali-Kahn, M.*, Shrum, T. Stakeholders perceptions of the 2023 historic floods in Vermont. Risk Communication, Crisis Response, Vulnerability and Lessons Learned. International Crisis and Risk Communication Conference (ICRCC). March 11-13, 2024. Orlando, Florida.
- 2024 Merrill, S.C.[†], Koliba, C., Soares, R., Quainoo, R., Clark, E., Shrum, T., Ali Khan, M., Myers, M. and Zia, A. Simulation-based Experiments Reveal Differences in the Efficiency of Responses to Flood Warning Messages in Crisis. International Crisis and Risk Communication Conference (ICRCC). March 11-13, 2024. Orlando, Florida.
- 2023 **Shrum, T.R.**[†], Donovan, C.*, Cripps, E.*, Bloch, S.*, and Boyson, C.* Repeated Environmental Behavior Latent (REBL) Score: A Rasch Model Measure of Pro-Environmental Behavior. Paper Presentation at the Northeastern Agricultural & Resource Economics Association (NAREEA) Summer Conference. June 13, 2023. Annapolis, MD.
- 2023 **Shrum, T.R.**[†], Donovan, C.*, Cripps, E.*, Bloch, S.*, and Boyson, C.* A Rasch Model Scale for the Measurement of Stated Preferences for Pro-Environmental Behavior. Paper Presentation at the Association of Environmental and Resource Economists (AERE) 2023 Summer Conference. May 31-June 2, 2023. Portland, ME.

- 2022 **Shrum, T.R.**[†], R. Gould, R., Ramirez-Harrington, D., Iglesias, V. Experience of Extreme Weather-Related Events and the Willingness to Pay for Climate Change Mitigation. Paper Presentation at the Eastern Economics Association Annual Meeting. May 6, 2022. Montego Bay, Jamaica.
- 2021 Clark, E.M.[†], Bucini, G., Merrill, S.C., Langle-Chimal, O.* , Koliba, C., Trinity, L., Cheney, N., **T Shrum**, Zia, A., and Smith, J.M. Linking experimental games with agent based models to quantify agricultural outbreak dynamics. Conference of Research Workers in Animal Disease (CRWAD). December 2021. Chicago, IL.
- 2021 **Shrum, T.R.**[†] and Kubit, J.[†] Participatory Creation of Digital Collections. MuseumNext Digital Learning Summit. October 19, 2021. Remote Presentation.
- 2021 Smith, J.[†], Merrill, S.C., Bucini, G., Cheney, N., Clark, E., Koliba, C., Langle-Chimal, O.* , Sellnow, D., Sellnow, T., **Shrum, T.**, Trinity, L., Zia, A. Animal disease spread models can be improved by including human behavior. Conference of Research Workers in Animal Diseases. December 3-7, 2021. Chicago, Illinois.
- 2021 **Shrum, T.R.**[†] Endogenous Preferences in Pro-Environmental Behavior. Western Economic Association International. Virtual International Conference. March 18, 2021.
- 2021 Merrill, S.C.[†], Bucini, G., Clark, E.M., Koliba, C.J., Trinity, L., Zia, A., Langle-Chimal, O., Cheney, N., **Shrum, T.R.**, Sellnow, T., Sellnow, D.D., & Smith, J.M. 2021. Why we need to account for human behavior and decision-making to effectively model the non-linear dynamics of livestock disease. Proceedings of the International Crisis and Risk Communication Conference, Volume 4 (pp. 23-28). Orlando FL: Nicholson School of Communication and Media. <https://doi.org/10.30658/icrcc.2021.06>
- 2020 **Shrum, T.R.**[†] Experiments in Ranching: Rain-Index Insurance and Investment in Production and Drought Risk Management. Northeastern Agricultural and Resource Economics Association Annual Conference. June 17, 2020.
- 2020 Merrill, S.C.[†], Koliba, C., Bucini, G., Clark, E., Trinity, L., Zia, A., Cheney, Z., Langle, L., **Shrum, T.R.**, Sellnow, T., Sellnow, D., Smith, J.M. (2020). A systems approach to understanding biosecurity decision-making. American Society of Animal Science Annual Meeting. November 4, 2020.
- 2018 **Shrum, T.R.**[†] Behavioral Motivations for Energy Efficiency Investments: Episodic Prospection and Intertemporal Decision-making. Front Range Energy Camp. University of Colorado Boulder. May 17, 2018.
- 2016 Kubit, J.[†] and **Shrum, T.R.**[†]. DearTomorrow, a promise to the future about climate change. MIT's Crowds and Climate Conference. Massachusetts Institute of Technology. September 29, 2016.
- 2013 **Shrum, T.R.**[†]. Mind the Gap: Expectation Biased Perception and the Energy Paradox. Camp Resources Workshop. August 5, 2013.
- 2012 Rogers, T. and **Shrum, T.R.**[†] Mind the Gap: Self-Perpetuating Perceptions and the Energy Efficiency Gap. Conference on Behavioral and Environmental Economics at the University of Toulouse. October 12, 2012.
- 2009 Ashton, W., Bain, A.[†], **Shrum, T.R.**[†]. Life-cycle based comparison of the reuse of agricultural residues as fuel and feedstocks in South India. International Society for Industrial Ecology Conference. Lisbon, Portugal, June 21-24, 2009.

INVITED TALKS & PANELS

- 2024 **Shrum, T.R.**[†] The REBL Score: A new dynamic measure of latent preferences for pro- environmental behavior. Society for Personality and Social Psychology 2024 Sustainability Pre-Conference. Online. February 7, 2024.
- 2023 **Shrum, T.R.**[†] Departmental Seminar. University of Massachusetts Amherst, Department of Environmental Conservation. September 29, 2023.
- 2023 **Shrum, T.R.**[†] The REBL Score: Measuring Dynamic Changes in Pro-Environmental Behavior. GundxChange. Gund Institute for Environment, University of Vermont. May 5, 2023.
- 2023 Panelist for Rethinking Economics To Address Social and Ecological Crises of 21st Century. University of Vermont. February 22, 2023.
- 2022 Syropoulos, S.[†], Markowitz, M., & **Shrum, T.R.**.. “A Letter to Future Generations: Examining the Effectiveness of an Intergenerational Framing Intervention. In The Psychology of Climate Change Mitigation and Adaptation.” Behavior Energy and Climate Change (BECC) Conference. November 2022.
- 2022 **Shrum, T.R.**[†] The Repeated Environmental Behavior Latent (REBL) Scale: A Rasch Model Measure of Pro-Environmental Behavior. Social Science and Sustainability Technology Workshop. CIRES Center for Social and Environmental Futures. University of Colorado Boulder. October 22, 2022.
- 2022 Panelist. Generational Fairness in Climate Change. Population Europe, Max Planck Institute for Demographic Research. February 7, 2022.
- 2021 **Shrum, T.R.**[†] Behavioral Science Insights for Environmental Governance and Policy. MIT Governance Lab. November 22, 2021.
- 2021 **Shrum, T.R.**[†] Experiments in Ranching: Rain-Index Insurance and Investment in Production and Drought Risk Management. AAEEA-WAEA Conference. Austin, Texas. August 2-3, 2021.
- 2021 **Shrum, T.R.**[†] Endogenous Preferences, Intrinsic Motivation, and the Evolution of Pro-Environmental Behavior. New Energy Series Seminar. Dartmouth University, The Arthur L. Irving Institute for Energy & Society. July 14, 2021.
- 2021 **Shrum, T.R.**[†] Endogenous Preferences, Intrinsic Motivation, and the Evolution of Pro-Environmental Behavior. Departmental Seminar. University of Maine, Department of Economics. February 26, 2021.
- 2020 Merrill, S. C.[†], Clark, E., Bucini, G., Koliba, C., Trinity, L., Cheney, N., Langle-Chimal, O. D., Sellnow, T., Sellnow, D., Zia, A., **Shrum, T.R.**, Beattie, R., Urbani, J., Wiltshire, S., and Smith J. M. “Systems Approach to Understanding Biosecurity Decision-Making.” ASAS-CSAS-WSASAS Virtual Annual Meeting & Trade Show, July 2020.
- 2020 **Shrum, T.R.**[†] Behavioral Frameworks for Risk Responses and Value Assessments of Carbon Dioxide Removal. Jumpstarting the New Carbon Economy. Columbia University. January 27, 2020.
- 2019 Panelist. Harvard Environmental Economics Program Workshop. Harvard Kennedy School of Government. September 20, 2019.
- 2019 **Shrum, T.R.**[†] Exploring how future prospectation affects the willingness to pay for carbon mitiga-

tion and time preferences. Human/Societal Dimensions of a New Carbon Economy Workshop. Cornell in Washington, Cornell University. February 13, 2019.

- 2018 **Shrum, T.R.**[†] Experiments in Ranching: Rain-Index Insurance and Investment in Production and Drought Risk Management. Boulder Economics Departmental Seminar. March 2, 2018.
- 2017 **Shrum, T.R.**[†] Drought Risk Insurance and Ranching R (DRIR-R) Experimental Model. Workshop Organizer and Presenter. Western Water Assessment, North Central Climate Science, and Northern Plains Climate Hub Retreat. Central Plains Experimental Range, Colorado. June 22, 2017.
- 2017 **Shrum, T.R.**[†] Earth Lab Drought and PRF Model. Modeling Rangeland Livestock, Drought, and PRF Insurance Workshop. University of Wyoming. February 3, 2017.
- 2014 **Shrum, T.R.**[†] Building Public Support for Arctic Renewable Energy: Lessons from Behavioral Science. Arctic Circle Conference, Plenary Speaker. Reykjavik, Iceland. November 2, 2014.

Grants, honors & awards

CURRENT GRANTS

- 2024-2026 Gund Institute Catalyst Award. Co-PI. “Starting with behavior” to understand links between pro-environmental behavior, values, and identity. \$199,960.50.
- 2023-2028 National Science Foundation Established Program to Stimulate Competitive Research (EPSCoR) RII Track-I. Co-Principal Investigator. Harnessing the Data Revolution for Vermont: The Science of Online Corpora, Knowledge, and Stories (SOCKS). \$20,000,000.
- 2022-2024 National Oceanic and Atmospheric Administration (NOAA). Enhanced Forecast Design Through Experimental Gaming and Social Impact Assessment of Connected River and Floodplains. Co-Principal Investigator. \$2,000,000.
- 2021-2023 USDA National Institute of Food and Agriculture Hatch Award. Principal Investigator. Measuring Change in Preferences for Pro-Environmental Behavior. \$60,000.

PENDING GRANT PROPOSALS

- 2025-2030 National Science Foundation. Principal Investigator. CAREER: The dynamics of intrinsically motivated preferences for pro-environmental behavior. \$639,171.

COMPLETED GRANTS

- 2022 The Science of Online Corpora, Knowledge, and Stories (SOCKS) Satellite Award. Principal Investigator. Driving Change with Climate Stories: Personal Narratives and Personal Experience. \$5,000.
- 2021 KR Foundation. Research sub-grant Principal Investigator. The State of the Science on Intergenerational Climate Action. \$10,000.
- 2021-2022 Gund Institute Catalyst Award, Co-Investigator. Hemp as a contributor to Rural Resilience and Sustainability. \$49,904.

2020	Gund Institute COVID-19 Rapid Research Fund, Co-Principal Investigator. COVID-19 Outbreak Behavior Experimental Simulation Game and Survey: Accounting for the Heterogeneity of Human Behavior to Prevent Infection Spread Due to Pro-Environmental Attitudes and Behaviors. \$9,899.
2018	UVM OVPR EXPRESS Award. \$3,000.
2018	USDA NIFA HATCH grant, Principal Investigator. Future Prospection, Time Preference, and Demand for Climate Change Mitigation. \$10,000.
2018	University of Colorado Boulder Research and Innovation Office Seed Grant, Collaborator with Sherri Cook, Amanda Carrico, and Max Boykoff. Resilient and Sustainable Sanitation Systems.
2016	KR Foundation Grant. Subgrant from Dear Tomorrow to study the impact of legacy motives and narrative writing on climate engagement. \$8,000.
2015	Harvard GSAS Dissertation Completion Fellowship. One-Year Tuition and Stipend.
2015	Foundations of Human Behavior Research Grant. \$5,000.
2015	Harvard Office of Sustainability Grant. \$1,000.
2015	Harvard Environmental Economics Program Research Grant. \$3,000.
2011	Harvard Real Estate Academic Initiative Fellowship. \$5,000.
2008	Yale University Tropical Resources Institute Fellowship. \$3,000.

HONORS & AWARDS

2023	Thomas F. Patterson Award for Excellence in Undergraduate Teaching Assistant Utilization and Mentoring
2019	UVM Sustainability Fellow
2017	Grist 50: Top Innovative Environmental Leaders of 2017
2016	MIT Climate CoLab “Shifting Behavior for a Changing Climate” Winner
2015	Top Creative in the Climate Issue of Origin Magazine, December 2015
2014	Rising Star in Renewable Energy & Climate Change, Arctic Circle
2006	Phi Beta Kappa Society
2004-2005	Morris K. Udall Scholar

Teaching

GRADUATE COURSES

2024	Research and Evaluation Methods, University of Vermont Policy Systems, University of Vermont
2021	The Political Economy of Sustainable Development, University of Vermont
2014	Energy Policy Analysis, Harvard University, Teaching Assistant to Dr. Henry Lee
2013	Economic Analysis of Public Policy, Harvard University, Teaching Assistant to Professor Joe Aldy
2009	Economics of Sustainable Development, Yale University, Teaching Assistant to Professor Gary

Yohe

2008 Economics of Pollution, Yale University, Teaching Assistant to Professor Robert Mendelsohn

UNDERGRADUATE COURSES

2018-2024 Introduction to Community Entrepreneurship, University of Vermont
2023 Consumers, Markets, and Public Policy, University of Vermont
2019-2023 Strategic Planning for Community Entrepreneurs, University of Vermont
2015 Fundamentals of Environmental Economics and Policy, Harvard University, Teaching Assistant to Professor Robert Stavins
2011-2013 Principles of Economics, Harvard University, Section Leader for Professor Greg Mankiw
2011 Economics of the Environment, Natural Resources, and Climate Change, Harvard University, Teaching Assistant to Professor Martin Weitzman

Research Advising & Supervision

POST-DOCTORAL ASSOCIATES

2023-Present Jessica Balerna, Cooperative Institute for Research to Operations in Hydrology (CIROH)
2023-Present Ruth Quainoo, Cooperative Institute for Research to Operations in Hydrology (CIROH)
2023-Present Rodrigo Soares, Cooperative Institute for Research to Operations in Hydrology (CIROH)
2022-2024 Bradford Demarest, Science of Online Corpora, Knowledge, and Stories (SOCKS)

PH.D. STUDENTS

2023-Present Elissa Schuett, Advisor, Sustainable Development Policy, Economics, & Governance
2023-Present Masood Ali-Kahn, Co-Advisor, Sustainable Development Policy, Economics, & Governance
2023-Present Ollin Langle, Committee Member, Complex Systems and Data Science
2022-Present Tung-Lin Liu, Committee Member, Food Systems
2022-Present Ben Ryan, Committee Member, Sustainable Development Policy, Economics, & Government

MASTERS STUDENTS

2024-Present Clare Nelson, Committee Member, Civil Engineering.
2022-Present Molly Myers, Advisor, Community Development and Applied Economics.
2022-Present Christopher Donovan, Advisor, Community Development and Applied Economics
2022-Present Madeline Beaudry, Committee Member, Animal Biosciences
2020-Present Megan Roush, Advisor, Community Development and Applied Economics
2020-2022 Amanda Falkner, Co-Advisor, Community Development and Applied Economics. Thesis Title: "Hemp in the United States: An Analysis of Policy and Consumption." Graduated May 2022

2021-2022	Erica Quallen, Masters Committee Member, Civil Engineering. Thesis Title: “Travel Behavior, Attitudes, and Responses to Fuel Prices in Small and Rural Communities.” Graduated May 2022
2021	Benjamin Ryan, Masters Committee Member, Community Development and Applied Economics. Thesis Title: “Sustainability Transitions with Precision Agriculture and Compatible Incentives for Farmers.” Graduated December 2021.
2018-2020	Roberta Molokandov, Advisor, Community Development and Applied Economics. Thesis Title: “Who is Performing Pro-Environmental Behaviors (PEBS) and Why? Examining the Impacts of Motivation, Environmental Attitudes, Climate Change Concerns, and Past Behavior in Intended and Actual Future PEBS.” Graduated August 2020.
2017-2018	Travis Williams, Co-Advisor and Masters Committee Member, University of Colorado Boulder, Geography, Graduated May 2018.

UNDERGRADUATE RESEARCH STUDENTS

2022-2023	Kylene Young, Research Assistant
2022-2023	Cecelia Boyson, Research Assistant
2022-2023	Emma Cripps, Research Assistant, Honors Thesis Advisor. Thesis Title: “Measuring Environmental Attitudes and Accessibility Through Repeated Pro-Environmental Behaviors.” Awarded Distinguished Undergraduate Research Honors, May 2023
2021-2023	Sadie Bloch, Research Assistant, Honors Thesis Advisor. Thesis Title: “Green-Tinted Glasses: Fashion Consumption Practices as Pro-Environmental Behaviors.” Awarded Distinguished Undergraduate Research Honors, May 2023
2021	Natalie Platt, Research Assistant

Professional Service

2017-Present	Reviewer for <i>American Journal of Agricultural Economics</i> , <i>Climatic Change</i> , <i>Behavioral Science & Policy</i> , <i>The Energy Journal</i> , <i>the Journal of Environmental Economics and Management</i> , <i>Complexity</i> , <i>PLOS One Climate</i>
2023-Present	Board Member, Northeastern Agriculture and Resource Economics Association.
2021-Present	SDPEG PhD Program Student Progress Committee Chair
2019-Present	UVM Entrepreneurship Pitch Competition Planning Committee
2020-2023	Faculty Senator for the UVM Faculty Senate
2022-2023	Search Committee Member, Educational Leadership & Policy Studies Program, College of Education and Social Services, University of Vermont
2022	Research grant proposal reviewer for the Sloan Foundation.
2022	CDR in IPCC AR6 WG III: A workshop on framing and governance issues. Invite-only workshop hosted by German Institute for International and Security Affairs (SWP)
2020-2021	SDPEG PhD Program Recruitment & Admissions Committee
2018	USGS Drought Social Science Synthesis Working Group
2018	Founder and Co-Chair of the Earth Lab Research Incubator Seminar Series

2017	Interview Committee for the Associate Director for Science of CIRES
2016-2017	Research Intern Mentor for CU Earth Lab Project Risk Undergraduates
2016	Volunteer Staff for the Behavioral Exchange conference at Harvard
2015	Harvard President Faust's Complementary Mechanisms Advisory Committee

Public Service & Outreach

2014-present	Co-Founder, founding director, and current advisor of DearTomorrow a climate communications project with a global reach and media coverage by the New York Times, Vox, NPR, and others
2019-present	Science and Impact Advisor for OurKidsClimate, an international network of parent-climate organizations.
2022-present	Climate Advocacy Working Group with Second Nature.
2023	Interview for WCAX (local television news station) on individual actions for sustainability
2023	Organized Hands-on Sustainability Science Activities for the C.P. Smith Elementary School Science Fair
2022	Interviewed by Liza Featherstone for The New Republic on my recent research. " The Joy of Saving the World. " June 28, 2022.
2021	Guest panelist, Climate Storytelling Workshop for the Climate Parent Fellowship Program. January 19, 2021.
2020	Podcast guest for the NORI Carbon Removal Newsroom
2019	Speaker at the Pecha Kucha Burlington
2017	Contributor to <i>Our Arctic Nation</i> , a book published by the U.S. State Department
2018	Featured in Sierra Magazine
2016	Public Radio International – Living on Earth Radio Interview
2016	Invited speaker at Switch in Boulder, CO, 2016
2011	Editorial in <i>Lawrence Journal World</i> on the Efficiency Kansas Program
2008	Interview on the Canadian Broadcasting Company's As it Happens – "Carbon Taxes Around the World," 2008

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