

## Trisha R. Shrum

<http://scholar.harvard.edu/trishashrum>

[tshrum@uvm.edu](mailto:tshrum@uvm.edu)

146 University Place

Morrill Hall 207C

(802) 656-8117

### Academic Appointments

---

University of Vermont, 2018 - Present

Assistant Professor, Department of Community Development and Applied Economics

University of Colorado at Boulder, 2016 - 2018

Post-Doctoral Research Associate, Earth Lab at the Cooperative Institute for Environmental Sciences (CIRES)

### Education

---

Harvard University – John F. Kennedy School of Government, 2016

- ◇ Ph.D. in Public Policy, specializations in Environmental Economics & Behavioral Economics
- ◇ Dissertation: “Behavioral and Experimental Insights on Consumer Decisions and The Environment”
- ◇ Committee: Joseph Aldy, David Laibson, Todd Rogers, and Robert Stavins

Yale University – School of Forestry and Environmental Studies, 2009

- ◇ Masters of Environmental Science with a focus on Environmental Economics
- ◇ Thesis: “Distinguishing Development in Carbon Dioxide Modeling”
- ◇ Thesis Advisor: Robert Mendelsohn

The University of Kansas, 2006

- ◇ BA in Environmental Studies, with Honors
- ◇ BS in Ecology and Evolutionary Biology
- ◇ Minor in Economics

### Research Papers

---

“Experiments in Ranching: Rain-Index Insurance and Investment in Production and Drought Risk Management,” working paper.

“The Saliency of Future Climate Impacts and the Willingness to Pay for Climate Change Mitigation,” working paper.

“Gasoline Price Volatility & Consumer Welfare: An Experimental Approach,” with Joe Aldy, working paper.

“Managing Climate Risks on the Ranch with Limited Drought Forecasts,” lead author with co-authors William Travis, Travis Williams, and Evan Lih, 2018. *Climate Risk Management*, 20: 11-26.

“Perceptions and the Energy Efficiency Gap,” Dissertation Chapter, 2016.

“Distinguishing Development in Carbon Dioxide Modeling,” Masters’ Thesis, 2009.

“Hypothetical Revealed Preference in Water Pollution Management,” Honors thesis, 2006.

### Invited Conference and Workshop Presentations

---

“Drought Risk Insurance and Ranching R (DRIR-R) Experimental Model.” Led Workshop and Presentation at the Western Water Assessment, North Central Climate Science, and Northern Plains Climate Hub Retreat. Central Plains Experimental Range, Colorado. June 22, 2017.

“Earth Lab’s Drought and PRF Model.” Presenter and co-organizer of the Modeling Rangeland Livestock, Drought, and PRF Insurance Workshop. University of Wyoming. February 3, 2017.

“DearTomorrow, a promise to the future about climate change.” Presented at MIT’s Crowds and Climate conference with Jill Kubit. Massachusetts Institute of Technology. September 29, 2016.

“Building Public Support for Arctic Renewable Energy: Lessons from Behavioral Science.” Invited speaker at Arctic Circle Conference Plenary Session in Reykjavik, Iceland. November 2, 2014.

Trisha Shrum. “Mind the Gap: Expectation Biased Perception and the Energy Paradox.” Research Sketch at the Camp Resources Workshop. August 5, 2013.

Todd Rogers and Trisha Shrum. “Mind the Gap: Self-Perpetuating Perceptions and the Energy Efficiency Gap.” Research presentation and conference paper at the Conference on Behavioral and Environmental Economics at the University of Toulouse. October 12, 2012.

Weslynn Ashton, Ariana Bain, and Trisha Shrum. “Life-cycle based comparison of the reuse of agricultural residues as fuel and feedstocks in South India.” Poster presentation at the International Society for Industrial Ecology Conference, Lisbon, Portugal, June 21-24, 2009.

### Policy Papers

---

“The Carbon Tax.” *A Renewable World: Energy, Ecology, Equality* by H. Girardet & M. Mendoca, book section, 2009.

“Additional Costs of the Proposed Holcomb Coal Plant Expansion under the Lieberman-Warner Bill (S.2191),” policy analysis prepared for the Kansas state legislature, 2008.

“Greenhouse Gas Emissions: Policy and Economics,” white paper prepared for the Kansas Energy Council and published by CarbonTax.org, 2007.

### Grants

---

OVPR EXPRESS grant, 2018

HATCH grant, 2018, “Future Prospection, Time Preference, and Demand for Climate Change Mitigation”

University of Colorado Boulder Research and Innovation Office Seed Grant, 2018, Collaborator on “Resilient and Sustainable Sanitation Systems” with Sherri Cook, Amanda Carrico, and Max Boykoff.

KR Foundation (Denmark) Grant, 2016-2018

Harvard GSAS Dissertation Completion Fellowship, 2015-2016

Foundations of Human Behavior Research Grant, 2015

Harvard Office of Sustainability Grant, 2015  
Harvard Environmental Economics Program Research Grant, 2015  
Harvard Real Estate Academic Initiative Fellowship, 2011  
Tropical Resources Institute Fellowship, 2008

## Honors

---

Grist 50: Top Innovative Environmental Leaders, 2017  
MIT Climate CoLab “Shifting Behavior for a Changing Climate” Winner, 2016  
Top Creative in the Climate Issue of *Origin Magazine*, December 2015  
Rising Star in Renewable Energy & Climate Change, Arctic Circle, 2014

## Professional Memberships

---

Association of Environmental and Resource Economics, 2017-Present  
Socio-Environmental Immersion Program with SESYNC, 2016-2017  
Analyst Group of the Analyst Institute, 2015-Present  
Climate Advocacy Lab, 2015-Present  
American Economic Association, 2009-Present  
Phi Beta Kappa Society, 2006-Present  
Behavioral Insights Group, Harvard University, 2014-2016  
Harvard Environmental Economics Program Pre-Doctoral Fellow, 2009-2016

## Professional Service

---

USGS Drought Social Science Synthesis Working Group, 2018  
Founder and Co-Chair of the Earth Lab Research Incubator Seminar Series, 2018  
Reviewer for *The Energy Journal* and the *Journal of Environmental Economics and Management*, 2017  
Interview Committee for the Associate Director for Science of CIRES, 2017  
Advisory Committee for CU Boulder Masters Student, Travis Williams, 2017  
Research Intern Mentor for CU Earth Lab Project Risk Undergraduates, 2016-2017  
Harvard President Faust’s Complementary Mechanisms Advisory Committee, 2015

## Teaching Experience

---

Assistant Professor, University of Vermont  
Introduction to Community Entrepreneurship, Fall 2018  
Strategic Planning for Community Entrepreneurs, Fall 2018

Teaching Fellow, Harvard University  
Fundamentals of Environmental Economics and Policy (Professor Robert Stavins), Spring 2015  
Energy Policy Analysis (Dr. Henry Lee), Fall 2014  
Economic Analysis of Public Policy (Professor Joseph Aldy), Spring 2013  
Economics of the Environment, Natural Resources, and Climate Change (Professor Martin Weitzman), Spring 2011

Section Leader, Harvard University  
Principles of Economics (Professor Greg Mankiw), Fall 2011- Fall 2013

Teaching Fellow, Yale School of Forestry and Environmental Studies  
Economics of Sustainable Development (Professor Gary Yohe), Spring 2009  
Economics of Pollution (Professor Robert Mendelsohn), Fall 2008

## Relevant Work Experience

---

Co-Founder of DearTomorrow, 2014-present

- ◇ Covered by Living on Earth (Public Radio International), Vox, Al Jazeera Plus, Climate Central, Yale Climate Communications, Origin, Sierra, TakePart, TED and Mongabay.
- ◇ Former Director, currently serving as the Chair of the Advisory Council

Research Assistant, 2010-2015

- ◇ Research assistant to Hunt Allcott, Todd Rogers, and Joseph Aldy

Research Consultant for Mark Parkinson, Governor of Kansas, 2008

- ◇ Assisted in researching a book by the Governor on long-term policy planning

Research Fellow at the Kansas Energy Office, 2007

- ◇ Advised the directors of the Energy Office, the Energy Council, and the Lieutenant Governor on economic, scientific, and policy issues related to climate change
- ◇ Assisted in organizing multi-stakeholder policy development meetings

## Technical and Analytical Skills

---

Environmental economics, behavioral economics, and experimental economics (expert)

Econometric analysis (advanced)

Field, lab, and online experimental planning, management and analysis (advanced)

Machine learning analysis (beginner)

Natural language processing (beginner)

Coding Languages: R (advanced), Stata (intermediate), Python (beginner)

High performance and cloud computing (beginner)

## Public Outreach and Volunteer Work

---

Contributor to *Our Arctic Nation*, a book published by the U.S. State Department, 2017

Featured in *Sierra Magazine*, 2017

Featured in *The Story We Want*, a documentary film by the Climate Listening Project, 2017

Public Radio International – [Living on Earth Radio Interview](#), December 2016

Invited speaker at Switch in Boulder, CO, 2016

Volunteer organizer for the Behavioral Exchange conference at Harvard, 2016

[Editorial in Lawrence Journal World](#) on the Efficiency Kansas Program, 2011

Interview on CBC As it Happens – “Carbon Taxes Around the World,” 2008

## References

---

Joseph Aldy  
Harvard Kennedy School  
Associate Professor of Public Policy  
Mailbox 114  
79 JFK Street

David Laibson  
Harvard University  
Professor of Economics &  
Department Chair  
1805 Cambridge Street

Cambridge, MA 02138  
[Joseph\\_Aldy@hks.harvard.edu](mailto:Joseph_Aldy@hks.harvard.edu)  
617-496-7213

Todd Rogers  
Harvard Kennedy School  
Associate Professor of Public Policy  
Mailbox 143  
79 JFK Street  
Cambridge, MA 02138  
[Todd\\_Rogers@hks.harvard.edu](mailto:Todd_Rogers@hks.harvard.edu)  
617-496-3421

William Travis  
University of Colorado  
Associate Professor of Geography  
Guggenheim 110, 260 UCB  
Boulder, Colorado 80309-0260  
[William.Travis@colorado.edu](mailto:William.Travis@colorado.edu)  
303-492-6312

Cambridge, MA 02138  
[dlaibson@harvard.edu](mailto:dlaibson@harvard.edu)  
617-496-3402

Robert Stavins  
Harvard Kennedy School  
Professor of Business & Government  
Mailbox 11  
79 JFK Street  
Cambridge, MA 02138  
[Robert\\_Stavins@hks.harvard.edu](mailto:Robert_Stavins@hks.harvard.edu)  
617-495-1820