

# Nick Hagerty

Updated December 2023

Montana State University  
311 Linfield Hall  
Bozeman, MT 59717

Email: [nicholas.hagerty@montana.edu](mailto:nicholas.hagerty@montana.edu)  
Website: [www.nickhagerty.com](http://www.nickhagerty.com)

## Academic Positions

<i>Assistant Professor</i> Department of Agricultural Economics and Economics Montana State University	2020 – Present
<i>S.V. Ciriacy-Wantrup Postdoctoral Fellow</i> Department of Agricultural & Resource Economics University of California, Berkeley	2018 – 2020

## Affiliations

<i>Invited Researcher</i> , J-PAL North America	2022 – Present
<i>Research Affiliate</i> , MIT Center for Energy & Environmental Policy Research	2021 – Present
<i>Invited Researcher</i> , King Climate Action Initiative (K-CAI)	2021 – Present
<i>Invited Researcher</i> , Agricultural Technology Adoption Initiative (ATAI)	2021 – Present

## Education

Massachusetts Institute of Technology Ph.D., Economics. Dissertation: <i>Essays on the Economics of Water</i> Committee: Esther Duflo, Christopher Knittel, and Benjamin Olken	2018
Brown University Sc.B. <i>magna cum laude</i> , concentrations in Physics (honors) & Economics	2010

## Previous Positions

<i>Research Analyst</i> , NBER and J-PAL (Research Assistant to Esther Duflo, Michael Greenstone, and Rohini Pande)	2011 – 2012
<i>Research Assistant</i> , Council of Economic Advisers	2010 – 2011

## Journal Articles

“Market Power in California’s Water Market” [\[link\]](#) with Francesca Tomori, Erik Ansink, Harold Houba, and Charles Bos (2023). *American Journal of Agricultural Economics*, published online October 28.

## Refereed Book Chapters

“The Political Economy of Groundwater Management: Descriptive Evidence from California” (with Ellen Bruno and Arthur Wardle). In: Ariel Dinar and Gary Libecap, ed., *American Agriculture, Water Resources, and Climate Change*, National Bureau of Economic Research, University of Chicago Press, forthcoming. [\[link\]](#)

## Working Papers

“Adaptation to Surface Water Scarcity in Irrigated Agriculture” [\[link\]](#)  
(sole authored)

“What Holds Back Water Markets? Transaction Costs and the Gains from Trade” [\[link\]](#)  
(sole authored)  
Revise and resubmit, *Review of Economics and Statistics*.

“Industrial Water Pollution and Agricultural Production in India” [\[link\]](#)  
(with Anshuman Tiwari)  
Revise and resubmit, *Journal of the Association of Environmental and Resource Economists*.

“Anticipatory Effects of Regulation in Open Access” [\[link\]](#)  
(with Ellen Bruno)

“External Costs of Climate Adaptation: Agricultural Wells and Access to Drinking Water”  
(with Ellen Bruno, Jeffrey Hadachek, and Katrina Jessoe) [\[link\]](#)

“The Tradeoff Between Wildlife Conservation and Renewable Energy: Evidence from Golden Eagles and Wind Turbines” [\[link\]](#)  
(with Brock O’Brien, former Montana State graduate student)  
Revise and resubmit, *Land Economics*.

## Selected Research in Progress

“Price Incentives for Resource Conservation: Experimental Evidence from Groundwater Irrigation” (Social Science Registry #[AEARCTR-0009337](#))  
(with Ariel Zucker) Fieldwork complete pending endline survey.

“The Benefits and Costs of Groundwater Regulation”  
(with Ellen Bruno)

## Self-Published Resources

California Surface Water Data ( <a href="#">GitHub</a> )	2022
Course Materials for “Advanced Data Analytics in Economics” ( <a href="#">GitHub</a> )	2022

## Funded Grants

Individual and Multi-State Hatch Projects, USDA	2023
Individual and Multi-State Hatch Projects, USDA	2022
MSU Library Open Educational Resources (5,000 USD)	2022
International Growth Centre (19,254 GBP)	2022
Agricultural Technology Adoption Initiative (ATAI) (14,081 USD)	2021
King Climate Action Initiative (K-CAI) (7,560 USD)	2021
King Climate Action Initiative (K-CAI) (156,068 USD)	2020
International Growth Centre (45,000 GBP)	2020
Initiative for Regulation and Applied Economic Analysis, Montana State	2020
Weiss Family Program Fund	2019
International Growth Centre	2018
George and Obie Shultz Fund, MIT	2018
Abdul Latif Jameel Water and Food Systems Lab, MIT	2017
International Growth Centre	2017
Abdul Latif Jameel Water and Food Systems Lab, MIT	2016
Weiss Family Program Fund	2015
J-PAL Urban Services Initiative	2014

## Fellowships & Awards

S.V. Ciriacy-Wantrup Postdoctoral Fellowship, UC Berkeley	2018 – 2020
Tata Fellowship, MIT Tata Center for Technology & Design	2013 – 2015
Honorable Mention, NSF Graduate Research Fellowship Program	2013
MIT Energy Fellowship, MIT Energy Initiative	2012 – 2013
Honorable Mention, NSF Graduate Research Fellowship Program	2012
Mildred Widgoff Prize for Excellence in Thesis Preparation (Brown University Department of Physics)	2010

## Conference and Seminar Presentations

2023: UC Santa Barbara (Bren School of Environmental Science and Management), AERE Summer Meeting, Montana State Applied Economics Summer Conference, Social Cost of Water Pollution Workshop (Cornell/EPA), North East Universities Development Conference, NBER conference on “Distributional Impacts of Climate Change in the Agricultural Sector”	
2022: University of Maryland (Agricultural & Resource Economics), AERE Summer Meeting, Montana State Applied Economics Summer Conference	
2021: Stockholm School of Economics (SITE)	
2020: TWEEDS, University of British Columbia (CFREE/VSE), University of Hawai’i Mānoa (Energy & Environment Seminar), NBER Summer Institute (EEE Workshop), AERE	

Summer Meeting (canceled), National Center for Environmental Economics (U.S. EPA), University of Massachusetts Amherst (Resource Economics), American Geophysical Union Fall Meeting

2019: Stanford (Environmental and Energy Policy Analysis Center), Occasional Workshop (UC Santa Barbara), Heartland Environmental and Resource Economics Workshop, Agricultural & Applied Economics Association (AAEA) Annual Meeting, AERE Summer Meeting (Sponsored Session), Tinbergen Institute (Spatial Economics Seminar), Public Policy Institute of California

2018: Occasional Workshop (UC Santa Barbara), UC Berkeley (Environmental & Energy Economics Seminar), NBER Summer Institute (EEE Workshop), Interdisciplinary Ph.D. Workshop on Sustainable Development (Columbia), UC Davis (Agricultural & Resource Economics)

2017: Environmental Defense Fund

## Courses Taught

### Montana State University

ECNS 460/560: Advanced Data Analytics in Economics (masters)

Fall 2021, Fall 2022, Fall 2023

ECNS 332: Economics of Natural Resources (undergraduate)

Fall 2020, Spring 2022, Spring 2023

AGBE 210: Economics of Agricultural Business (undergraduate)

Spring 2021

### Massachusetts Institute of Technology

Undergraduate Research Program (mentor to 3 students)

2017 – 2018

Kaufman Teaching Certificate Program

2016

14.41 Public Finance and Public Policy (undergraduate)

2015

(teaching assistant to Professor Jonathan Gruber)

## Outreach Writing

[“Interior’s plan won’t solve the Colorado River crisis. Here’s what will.”](#) 2022  
(with Bryan Leonard). *High Country News*, October 19.

Blog posts for [AgEconMT.com](https://agEconMT.com) (for agricultural stakeholders in Montana)

“Did a Robot Write This? The Future of Chatbots in Agriculture” 2023

“The value of clarifying water rights” 2022

“The Inflation Reduction Act: What’s in it for agriculture?” 2022

“The Inflation Reduction Act: What is it?” 2022

“Making people want to conserve water” 2022

“Recapping the 2021 drought” 2021

“The mystery of the missing drought impacts” 2021

Outreach, science communication, and policy commentary on Twitter  
1.9 million total views from August 2020 through December 2023.

2015 – Present

## Outreach Presentations

“Agricultural Impacts of Water Scarcity in the Short Term and Long Term.” Montana State Agricultural Economics Conference, Bozeman, MT, November 4, 2023.

“Managing Water for Drought Resilience: An Economics Perspective.” Upper Missouri River Basin Drought and Human Health Workshop, Bozeman, MT, April 12, 2022.

## Media Interviews and Appearances

Vox ( <a href="#">“Let’s talk about the biggest cause of the West’s water crisis”</a> )	2023
KUNC / NPR	2022
Montana PBS	2022
Volts newsletter by David Roberts	2021

## Referee Service

*Agricultural Economics*  
*American Economic Journal: Applied Economics*  
*American Economic Journal: Economic Policy*  
*American Economic Journal: Macroeconomics*  
*American Economic Review*  
*American Journal of Agricultural Economics*  
*Applied Economics Teaching Resources*  
*Association of Environmental & Resource Economists Summer Meeting*  
*Environment and Development Economics*  
*Environmental Defense Fund Discussion Paper Series*  
*International Journal of Industrial Organization*  
*Journal of the Association of Environmental & Resource Economists*  
*Journal of Environmental Economics and Management*  
*Journal of Public Economics*  
*Land Economics*  
*Review of Economics and Statistics*  
*Quarterly Journal of Economics*  
*Water Resources and Economics*

## Other Professional Service

Grant Reviewer, King Climate Action Initiative (K-CAI)	2021 – 2022
Grant Reviewer, Digital Agricultural Innovations and Services Initiative	2022
Discussant, Standing Panel on Impact Assessment of the CGIAR	2021

## Advising and Mentoring

Master's thesis advising	
Committee chair, 1 student	2023 – 2024
Committee member, 3 students	2022 – 2023
Committee member, 2 students	2021 – 2022
Undergraduate advising (approximately 20 students per semester)	2022 – Present
Co-supervision of full-time Research Associates (Placement)	
J-PAL South Asia (TBD)	2022 – 2023
Montana State (Economics Ph.D., Virginia Tech)	2021 – 2022
J-PAL South Asia (Policy Data Fellow, Government of Delhi, India)	2018 – 2020
J-PAL South Asia (Urban Studies and Planning Ph.D., MIT)	2017 – 2018
J-PAL South Asia (Urban Studies and Planning S.M., MIT)	2016 – 2017

## Department Service

Committee to develop new major in Environmental Economics and Policy	2021 – Present
Graduate Affairs Committee	2021 – Present
Department Review Committee on Extension and Service	2021
Co-founder/organizer, Reading Group in Water Economics (UC Berkeley)	2018 – 2020

## Invited Contributions

“Arbitrage,” definition for the <i>Dictionary of Ecological Economics</i>	2021
---	------

## Publications in Physics

“Statistics of DNA capture by a solid-state nanopore” (with Mirna Mihovilovic and Derek Stein), <i>Physical Review Letters</i> , 2013.	
--	--