

# Steven W. Wilcox

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## Academic Positions

*Assistant Professor* 2022 - Present  
Department of Applied Economics  
Utah State University

*Faculty affiliate* 2023 - Present  
Ecology Center and Climate Adaptation Science Program  
Utah State University

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## Education

*Cornell University* 2022  
Ph.D. in Applied Economics and Management

*Bard College* 2005  
M.S. in Environmental Policy

*Utah State University* 2002  
B.A. *cum laude* in American Studies, Spanish, Geology

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## Research Interests

Environmental and Natural Resource Economics  
Agricultural and Development Economics  
Food, Agriculture, Food Security, Land & Resource Use, Conservation and Policy  
Remote Sensing Applications in Applied Economics

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## Publications

Wilcox, Steven W., D.R. Just, and A. Ortiz-Bobea 2024. “The Role of Staple Food Prices in Deforestation: Evidence from Cambodia.” *Land Economics*, forthcoming.  
*Available online:* <https://doi.org/10.3368/le.101.1.100423-0097R>

## Under Review

Purevjav, Avralt-Od, T. Avrimed, S.W. Wilcox, C.B. Barrett 2024. “Disentangling Drivers of Rangeland Degradation in Mongolia: Herd Size Versus Climate Over 1984-2023.” Revise and resubmit: *Science*.

Soto, Gerardo E., S.W. Wilcox, P.E. Clark, F.P. Fava, N.D. Jensen, N. Kahiu, C. Liao, B. Porter, Y. Sun, C.B. Barrett 2024. “Mapping Rangeland Health Indicators in East Africa from 2000 to 2020.” Revised and resubmitted: *Earth System Science Data*.  
<https://essd.copernicus.org/preprints/essd-2023-217/>

## Working Papers

“Apple Pollination Costs and Strategies in the US and the Northeast”, with Heather Grab, David R. Just, C.-Y. Cynthia Lin Lawell, and D. Adeline Yeh.

“To (Rent) Bees or Not to (Rent) Bees? An Examination of the Farmer’s Question”, with Miguel I. Gómez, Heather Grab, David R. Just, C.-Y. Cynthia Lin Lawell.

“The Environmental Impacts of Microfinance: An Empirical Study of Index-Based Livestock Insurance and East African Rangelands”, with Christopher B. Barrett, Patrick E. Clark, Francesco P. Fava, Nathaniel D. Jensen, Njoki Kahiu, Gerardo E. Soto, Ying Sun.

“Adoption and Efficacy of Tiered Water Pricing: Evidence from Utah”, with Savanna Craig (lead author).

## Works in Progress

“Production Outcomes and Managed Pollination Use in the US Apple Sector”, with Heather Grab, David R. Just, C.-Y. Cynthia Lin Lawell, and Miguel I. Gómez.

“Long Run Trends in East African Rangeland Quality”, with Gerardo E. Soto (lead author), Christopher B. Barrett, Patrick E. Clark, Francesco P. Fava, Nathaniel D. Jensen, Njoki Kahiu, Chuan Liao, Benjamin Porter, Ying Sun.

“Enough Wild Bees? An Empirical Study of Northeast Apple Farms”, with Bryan N. Danforth, Heather Grab, David R. Just, and C.-Y. Cynthia Lin Lawell, and Maria Van Dyke.

“Farm-level Pollination Supply and Demand and Optimal Pollination Strategies”, with Bryan N. Danforth, Heather Grab, David R. Just, C.-Y. Cynthia Lin Lawell, and Maria Van Dyke.

“The Impact of Bonneville Basin Pluvial Dust Sources on Local Air Quality in the Intermountain West”, with Logan Haviland, and Sherzod Akhundjanov.

## In Development

“Bonneville Basin Dust, Air Quality, and Public Health: An Empirical Study of a Declining Great Salt Lake, Regional Playa Systems, and Health Outcomes in Utah”, with Christopher C. Brown, Logan Haviland, and Sherzod Akhundjanov.

“Conditional Cash Transfers and Natural Resource Use: An Application to Fisheries in Mexico”, with Jesus Felix De Los Reyes.

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## Grants

- May 2023 – May 2025: Utah Agricultural Experiment Station Seed Grant (\$46,128.52). “The Great Salt Lake, Air Quality, and Public Health: An Empirical Study of a Declining Great Salt Lake and Health Outcomes in Utah, 1985-2022.” Principal Investigator: **Steven W. Wilcox**. Co-PI: Christopher C. Brown.
- January 2021 – January 2022: Environmental Impacts of Agricultural Intensification, CGIAR-Standing Panel on Impact Assessment (Phase II, \$76,679). “Rangeland Health and Index-Based Livestock Insurance: Innovations in Measurement and Evaluation.” Principal Investigator: Christopher B. Barrett. Co-Principal Investigators: Ying Sun, Nathaniel D. Jensen. Collaborators: Patrick E. Clark, Francesco P. Fava, Njoki Kahi, Chuan Liao, Diba Galgallo, Oscar Naibei, Gerardo E. Soto, and **Steven W. Wilcox**.
- January 2020 – January 2021: Environmental Impacts of Agricultural Intensification, CGIAR-Standing Panel on Impact Assessment (Phase I, \$127,799). “Rangeland Health and Index-Based Livestock Insurance: Innovations in Measurement and Evaluation.” Principal Investigator: Christopher B. Barrett. Co-Principal Investigators: Ying Sun, Nathaniel D. Jensen. Collaborators: Patrick E. Clark, Francesco P. Fava, Njoki Kahi, Chuan Liao, Diba Galgallo, Oscar Naibei, Gerardo E. Soto, and **Steven W. Wilcox**.

- January 2019 – January 2022: Engaged Cornell Supplemental Academic Venture Fund Grant (\$10,000). “Sustainable Agricultural Pollination Resource Investment and Management for New York Apple Farmers.” Principal Investigator: David R. Just. Co-Principal Investigators: Bryan N. Danforth, Miguel I. Gómez, and C.-Y. Cynthia Lin Lawell. Collaborators: Heather Grab, Craig Kahlke, Maria van Dyke, and **Steven W. Wilcox**.
- January 2019 – January 2022: Academic Venture Fund (AVF) Award, Atkinson Center for a Sustainable Future (\$101,327). “Sustainable Agricultural Pollination Resource Investment and Management for New York Apple Farmers.” Principal Investigator: David R. Just. Co-Principal Investigators: Bryan N. Danforth, Miguel I. Gómez, and C.-Y. Cynthia Lin Lawell. Collaborators: Heather Grab, Craig Kahlke, Maria van Dyke, and **Steven W. Wilcox**.
- May 2018 – May 2022: Sustainable Biodiversity Fund Grant, Atkinson Center for a Sustainable Future (\$7,600). “Optimal Investment in a Pollination Resource Stock Under Uncertainty”. Principal Investigator: **Steven W. Wilcox**. Collaborators: David R. Just, C.-Y. Cynthia Lin Lawell, Miguel I. Gómez.
- May 2017 – May 2019: Richard Bradfield Research Award (\$3,500), College of Agriculture and Life Sciences, Cornell University. Principal Investigator: **Steven W. Wilcox**. Collaborators: David R. Just and Ariel Ortiz-Bobea.

## **Presentations** (++) S.W. Wilcox as presenter; \*\* S.W. Wilcox as coauthor)

### Presentations in 2024:

August: Invited paper, SPIA pre-conference at the International Conference of Agricultural Economists; New Delhi, India: “*The Environmental Impacts of Microfinance: An Empirical Study of Index-Based Livestock Insurance and East African Rangelands*”\*\*

March: Invited presentation, USU Ecology Center Incubator Lunch; Logan, Utah: “*Disentangling Drivers of Rangeland Degradation in Mongolia: Herd Size Versus Climate Over 1984-2023*.”++

March: USU CAAS Graduate Student Symposium; Logan, Utah: “*Adoption and Efficacy of Tiered Water Pricing: Evidence from Utah*.”\*\*

### Presentations in 2023:

October: Invited seminar; University of Bologna, Italy: “*Disentangling Drivers of Rangeland Degradation in Mongolia: Herd Size Versus Climate Over 1985-2022*”\*\*

July: AAEA summer conference; Washington D.C.: “*Disentangling Drivers of Rangeland Degradation in Mongolia: Herd Size Versus Climate Over 1985-2022*”\*\*

July: AAEA summer conference; Washington, D.C.: *“To (Rent) Bees or Not to (Rent) Bees? An Examination of the Farmer’s Question”*<sup>++</sup>

July: WAEA-CAES summer conference in Whistler, B.C., Canada and AAEA summer conference in Washington D.C.: *“The Environmental Impacts of Microfinance: An Empirical Study of Index-Based Livestock Insurance and East African Rangelands”*<sup>++</sup>

June: AERE summer conference; Portland, Maine: *“To (Rent) Bees or Not to (Rent) Bees? An Examination of the Farmer’s Question”*<sup>++</sup>

June: AERE summer conference; Portland, Maine: *“Disentangling Drivers of Rangeland Degradation in Mongolia: Herd Size Versus Climate Over 1985-2022”*<sup>\*\*</sup>

February: Mongolian Economic Association; Ulaanbaatar, Mongolia: *“Disentangling Drivers of Rangeland Degradation in Mongolia: Herd Size Versus Climate Over 1985-2022”*<sup>\*\*</sup>

#### Presentations in 2022:

July: NC-1034 multi-state project; Anaheim, California: *“The Environmental Impacts of Microfinance: An Empirical Study of Index-Based Livestock Insurance and East African Rangelands”*<sup>++</sup>

April: Invited seminar at Texas A&M University: *“The Environmental Impacts of Microfinance: An Empirical Study of Index-Based Livestock Insurance and East African Rangelands”*<sup>\*\*</sup>

March: Development seminar at Cornell University: *“The Environmental Impacts of Microfinance: An Empirical Study of Index-Based Livestock Insurance and East African Rangelands”*<sup>++</sup>

April: SEERE seminar at Cornell University: *“To (Rent) Bees or Not to (Rent) Bees? An Examination of the Farmer’s Question”*<sup>++</sup>

February: Invited talks at Utah State University and the University of Utah: *“The Role of Staple Food Prices in Deforestation: Evidence from Cambodia”*<sup>++</sup>

#### Presentations in 2021:

October: Development seminar at Cornell University: *“The Environmental Impacts of Microfinance: An Empirical Study of Index-Based Livestock Insurance and East African Rangelands”*<sup>++</sup>

April: Development seminar at Cornell University: *“The Environmental Impacts of Microfinance: An Empirical Study of Index-Based Livestock Insurance and East African Rangelands”*<sup>++</sup>

April: SEERE seminar at Cornell University: *“To (Rent) Bees or Not to (Rent) Bees? An Examination of the Farmer’s Question”*<sup>++</sup>

November: SEERE seminar at Cornell University: “*The Role of Staple Food Prices in Deforestation: Evidence from Cambodia*”<sup>++</sup>

Presentations in 2020:

August: CGIAR-SPIA-USCB-emLab; workshop on Environmental Impacts of Agricultural Intensification: “*The Environmental Impacts of Microfinance: An Empirical Study of Index-Based Livestock Insurance and East African Rangelands*”<sup>++</sup>

November: Northeastern Universities Development Consortium Annual Conference: “*The Role of Staple Food Prices in Deforestation: Evidence from Cambodia*”<sup>++</sup>

October: Food Studies International Conference and CURB - Innovative Perspectives on the Environment Symposium: “*To (Rent) Bees or Not to (Rent) Bees? An Examination of the Farmer’s Question*”<sup>++</sup>

September: Development seminar at Cornell University: “*The Role of Staple Food Prices in Deforestation: Evidence from Cambodia*”<sup>++</sup>

Presentations in 2019:

October: SEERE seminar at Cornell University: “*To (Rent) Bees or Not to (Rent) Bees? An Examination of the Farmer’s Question*”<sup>++</sup>

April: Atkinson Center seminar at Cornell University: “*To (Rent) Bees or Not to (Rent) Bees? An Examination of the Farmer’s Question*”<sup>++</sup>

March: SEERE seminar at Cornell University: “*The Role of Staple Food Prices in Deforestation: Evidence from Cambodia*”<sup>++</sup>

February: Development seminar at Cornell University: “*The Role of Staple Food Prices in Deforestation: Evidence from Cambodia*”<sup>++</sup>

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## Teaching

Utah State University

*APEC 5015: Applied Economics for Decision Making*

Fall 2024

*APEC 6330 (ECN 6300): Applied Econometrics*

Fall 2024

*APEC 3012: Introduction to Natural Resource Economics* Spring, Fall 2023

*APEC 5330/6330 (ECN 6300): Applied Econometrics* Fall 2023

Cornell University

AEM 4500 / ECON 4810: Resource Economics Spring Semester 2019  
*Teaching Assistant* for Professor Cynthia Lin Lawell

AEM 2350: Introduction to the Economics of Development Fall Semester 2016, 2018  
*Teaching Assistant* for Professor Steve Kyle

AEM 2300: International Trade and Finance Spring Semester 2018  
*Teaching Assistant* for Professor David R. Lee

## Advising

Utah State University

*Logan Haviland, PhD Applied Economics (2nd year)* 2023 - Present

*Jesus Felix De Los Reyes, PhD Applied Economics (2nd year)* 2023 - Present

*Emmanuel Asare-Kyere, PhD Applied Economics (4th year)* 2023 - Present

*Savanna Craig, M.S. Applied Economics (summer 24')* fall 2022 - summer 2024

*Ashley Betony, B.S. Rangeland Ecology & Management (spring 24')* fall 2023 - spring 2024

*Kalli Hull, B.S. Environmental Studies (spring 24')* fall 2023 - spring 2024

*Sage Wootan, B.S. Agribusiness (spring 23')* fall 2022 - spring 2023

Cornell University

*Tumenskhusel Avrimed, Honors Undergraduate Thesis* fall 2020 - Spring 2021  
*Co-Supervision w/C.B. Barrett*

## Professional Service

### Utah State University

APEC undergraduate curriculum committee	2023-present
CAAS Research Advisory Committee (RAC)	2023-present
Aided APEC request to fill departmental teaching gap	2023-2024 academic year

### Other professional service

Manuscript reviewer for: Land Economics; Applied Geography; PLOS Climate; AAEA and WAEA conference paper submissions.

Farm-level data reports for New York apple growers	2023-2024
Sustainable Biodiversity Fund Award reviewer, Atkinson Center, Cornell University	2019
STAARS Fellowship application reviewer, Cornell University,	2018-2022
NEUDC submission reviewer, Cornell University	2018
Member, Technical Advisory Committee, Jordan River Commission, Utah	2011-2015

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## Awards and Honors

- 2018-2022 – Research Fellow, David R. Atkinson Center for a Sustainable Future, Cornell University.
- 2020 – Dyson Graduate Student Outstanding Engaged Research Award, Cornell University.
- 2003-2005 – Bard Center for Environmental Policy Fellowship, Bard College.
- 2001 – N.A. Pederson and Alice Tippets Scholarships, Utah State University.



## Media Citations

“2022 SPIA Webinar Series: Supporting the Design of Rigorous Impact Evaluations of CGIAR Innovation”. *CGIAR-SPIA webinar series: webinar #14: Environmental and long-term impacts of Index Based Livestock Insurance*. 18 May 2022

“Dyson celebrates 2020 faculty, staff, and student award recipients”. *Dyson Business Feed*. 22 June 2020.

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## Other Work Experience

*Research Assistant* for Professor Christopher B. Barrett Summer 2020 to Spring 2022

*Research Assistant* for Professor David R. Just Fall 2019, 2021, Spring 2020

*Graduate Research Associate* 5/2018 to 7/2022

Cornell University Think-tank for Resources, Energy, and the Environment:  
Science and Policy-related Economic Analysis and Research (TREESPEAR)

*Research Assistant* for Professor Jennifer Ifft Fall 2017

*State Wetland Restoration Specialist* 1/2013 to 7/2015

USDA Natural Resources Conservation Service (NRCS), Salt Lake City, Utah  
Duties: Provide lead technical assistance to field offices throughout Utah for the Wetland Reserve Program as a member of the NRCS-Utah State Resources Staff.

*Spanish Translator* 1/2007 to 2/2007

Intermountain West Joint Venture, Salt Lake City, Utah and Nayarit, Mexico  
Duties: Provide translation services in Utah and Mexico for a workshop on avian survey protocols, conservation planning, and monitoring for the Marismas Nacionales, Nayarit, Mexico.

*Habitat Biologist* 7/2006 to 1/2013

USDA-NRCS and Utah Division of Wildlife Resources (UDWR), Ogden and Price, Utah  
Duties: Provide technical conservation planning and habitat restoration assistance to NRCS field offices regarding wildlife and habitat, coordinate additional assistance from the UDWR.

*Forestry Technician*

multiple seasons, 2002-2003, 2005

USDA-Forest Service (USDA-FS) and Montana State University (MSU)

Duties: Carry out forest stand surveys for research on aspen regeneration in the Greater Yellowstone Ecosystem (for USDA-FS and MSU), and as a part of the USDA-FS Forest Inventory and Analysis Program (FIA). Field locations in Wyoming, Montana, and Nevada.

*Research Intern*

7/2004 to 12/2004

Proyecto Campanario, San Jose and Osa Peninsula, Costa Rica

Duties: Implement an economic feasibility analysis for a proposed private trail system in the buffer zones of national parks and protected lands in the Osa Peninsula.

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## **Code, Computers, etc.**

I do the majority of my coding in R and Matlab, I frequently use spatial and remote sensing data and platforms like Google Earth Engine, and high performance computing clusters.

## **Languages**

Spanish (solid speaking and writing); English (native speaker).

## **For Fun**

When not working or studying, here are some of things I enjoy doing for fun and sanity: spending time with my immediate-family and extended families; anything to do with climbing (bouldering, trad and sport climbing, mountaineering); anything to do with skiing (telemark, backcountry, skate skiing); backpacking; fly-fishing; music (studying, playing, writing); reading and writing; gardening and construction work.