

Andie M. Creel

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EDUCATION

Yale School of the Environment, New Haven, CT

PhD in Environmental Economics, Expected 2026

Dissertation Title: Essays on the Value of Outdoor Recreation and Green Space

Yale School of the Environment, New Haven, CT

Master of Environmental Science, 2021

Thesis Title: People Use Park with People: Usage Change during the COVID-19 Pandemic

Montana State University, Bozeman, MT

Bachelor of Science in Economics, Summa Cum Laude, 2018

Minor in Computer Science

JOB MARKET PAPER

Do Hot Deals Beat the Heat? Does Green Space Keep Bringing in the Green? The Effects of Heat and Green Space on City Storefronts: This paper quantifies the economic impact of extreme heat on business revenue and evaluates urban green space as a nature-based climate adaptation. Using daily credit card transaction data, NOAA temperature records, and a novel volumetric green space measure, I estimate a revenue-maximizing “bliss point” around 35°C (95°F), beyond which revenue declines, particularly for leisure businesses. Proximity to green space mitigates these losses, raising the bliss point and reducing heat-related revenue declines. Projecting future revenue impacts under climate scenarios, I estimate potential losses and assess how green space investments could offset economic damages. These findings inform climate adaptation strategies and the valuation of urban green space.

WORK IN PROGRESS

1. 20 Years of Changing Willingness to Pay for Local Outdoor Recreation (Dissertation Chapter)
2. Measuring the Value of Outdoor Recreation for National Environmental-Economic Statistics (with Eli P. Fenichel and Jorge Forero Fajardo)
3. Industry Transition Risk with Climate Policy (with Anya Nakhmurina)
4. Environmental Federalism and Grizzly Bears: Estimating the shadow price of a bear (with Andrew Vogt and Scott Carpenter)

PUBLICATIONS

Creel A. M., (forthcoming). Muller et al., eds., Measuring and Accounting for Environmental Public Goods, chap. 7 comment. *National Bureau of Economic Research Book, University of Chicago Press*.

Creel, S., Creel, N. M., Creel, A. M., & Creel, B. M. (2016). Hunting on a hot day: effects of temperature on interactions between African wild dogs and their prey. *Ecology*, 97(11), 2910-2916.

RESEARCH FELLOWSHIPS

- 2024** Graduate Research Fellow, **Property and Environmental Rights Council** (PERC), Bozeman, MT.
- 2022** Graduate Research Fellow to **Eli P. Fenichel**, Yale School of the Environment and **Jude Bayham**, Colorado State University. *Analyzed mobility data on the daily dairies of individuals to identify close contacts of meat packer employees during the COVID-19 pandemic.*
- 2021** Research Associate to **Margaret Walls**, Resources for the Future, Washington D.C. *Examined distribution of Land Water Conservation Funds across sub-populations.*
- 2019** Graduate Research Associate to **Kerwin Charles**, Yale School of Management, New Haven, CT. *Collected primary source data to analyze the effect of closing Black hospitals during desegregation.*

CONFERENCE AND SEMINAR PRESENTATIONS

- 2025** AERE Summer Conference, Santa Ana Pueblo, NM
Confluence Research and Discussion Series, Yale School of the Environment
- 2024** Invited Speaker, Western Community and Connections Seminar Series, Yale School of the Environment
PERC Summer Seminar, Bozeman, MT
ECON Student Interest Group Lunch Series, Yale School of the Environment
Confluence Research and Discussion Series, Yale School of the Environment
- 2023** Camp Resources, Asheville, NC
OSWEET Series: April 28
Research Day, Yale School of the Environment
- 2022** Fall Confluence Research and Discussion Series, Yale School of the Environment
Spring Confluence Research and Discussion Series, Yale School of the Environment
- 2021** OSWEET Series: August 27
PERC Seminar Seminar, Bozeman, MT
AERE Summer Conference
Research Day, Yale School of the Environment
ECON Student Interest Group Lunch Series, Yale School of the Environment

SELECT AWARDS AND HONORS

- 2023** Yale Environmental Data Science Initiative Small Grant
Teaching Fellow Award for Excellence, Yale School of the Environment
Yale Institute for Biospheric Studies Small Grant
Spring Alumni Feature, Montana State University Economics Departments' Magazine. [Link](#).
- 2021** Class of '21 Student Highlight, Yale School of the Environment. [Link](#).
- 2020** Alumni Association Board Scholarship, Yale School of the Environment
Schiff Fund for Wildlife, Habitat and Biodiversity Research, Yale School of the Environment
- 2019** Merit Scholar, Yale School of the Environment
Runner Up for Best Digital Reporting, International Association of Fire Fighters

TEACHING EXPERIENCE

- 2025 Instructor, Certificate in Environmental Data Science, Yale School of the Environment**
Prepared and presented 8 lectures for the data foundations unit, February 2025.
[Link to Lecture Notes](#)
- Instructor, Intro to Programming Workshop, Yale School of the Environment**
Prepared and presented 6 lectures over 3 days, January 2024 and 2025
4.7/5 average review from a total of 28 students.
[Link to Lecture Notes](#)
- 2024 Graduate Teaching Fellow, ENV 762, Yale School of the Environment**
Applied Math for Environmental Scientists, Fall 2023 and 2024
4.8/5 average review from 11 students in 2023. 4.6/5 from 5 students in 2024.
[Link to Prepared Notes](#)
- Instructor, Intro to Excel for Environmental Science, Yale School of the Environment**
Prepared and presented a two-hour workshop on using Excel for environmental problems, Summer 2024
- Lead Teaching Fellow for Community Orientation (aka MODs), Yale School of the Environment**
Co-developed teaching material with faculty member for three-day course in environmental leadership, Summer 2023 and 2024
4.83/5 instructor average review from 53 students in 2024 (2023 survey not available)
- Graduate Teaching Fellow, ENV 617, Yale School of the Environment**
Real World Environmental Data Science, Spring 2024
4.6/5 average review from 17 students
- 2023 Graduate Teaching Fellow, ENV 795, Yale School of the Environment**
Nature as Capital, Spring 2023
5/5 average review from 16 students (Received Teaching Fellow Award for Excellence)
[Link to Prepared Notes](#)
- 2020 Graduate Teaching Fellow, ECNS 330, Yale Economics Department**
Natural Resource Economics, Fall 2020
4.7/5 average review from 33 students
- 2017 Undergraduate Peer Leader, ECNS 101, MSU Economics Department**
Economic Way of Thinking, Spring, Fall 2017
- Undergraduate Teaching Assistant, CSCI 111, MSU Computer Science Department**
Introduction to Programming with Java, Spring 2017
- 2016 Undergraduate Teaching Assistant, ECNS 204, MSU Economics Department**
Microeconomics, Spring, Summer, Fall 2015; Spring 2016

ACADEMIC SERVICE AND MENTORING

- 2024 – 2025** **Student Representative on Faculty Search Committee**, Yale School of the Environment
Participated with 3 faculty members to hire an economist and coordinated student engagement
- 2023 – 2024** **Chair of Economics Student Interest Group**, Yale School of the Environment
Recruited and hosted eleven student seminars and seven group dinners
- 2023 – 2024** **Supervisor to two Research Assistants**, Yale School of the Environment
Managed an undergraduate and masters student on two separate research projects related to local recreation.
- 2023 – 2024** **Lead Student Coordinator for Western Community and Connect Center**, Yale School of the Environment
Hosted 18 events for 600 Yale affiliates, created network opportunities with 10 faculty members/practitioners
- 2019 – 2021** **Secretary of BIOMES**, Yale School of the Environment
Invited and hosted speakers to Yale School of the Environment's flagship seminar series
- 2020 – 2021** **Chair of the Student Affairs Committee**, Yale School of the Environment
Revised bylaws to define and fund affinity groups, required leadership training for student organizations funded by SAC
- 2020 – 2021** **Peer Mentor**, Yale School of the Environment
Mentored three first-year masters students
- 2014** **Honors College Mentor at Longfellow Elementary School**, Montana State University
Mentored two fourth-grade boys in an age-appropriate engineering project

NONPROFIT EXPERIENCE

- 2018 – 2025** **Backcountry Squatters**, Bozeman, MT
Founder, President of Board
Founded with the mission to grow college-aged women and non-binary folks' participation, leadership, and representation in the outdoor industry and community. Grown to have chapters at 13 universities, and over 2000 members or alumni during my presidency.
- 2020** **Madera/Chowchilla Resource Conservation District**, San Joaquin Valley, CA
Research Fellow
Contributed to the RCDs' strategic plan aimed at preserving working landowners' livelihoods while also addressing environmental stressors, primarily groundwater depletion.
- 2017 – 2019** **The Montana Engagement Partnership: Prairie Populist**, Bozeman, MT
Advocacy Journalist
Published one article per week highlighting the positive solutions coming out of Montana's rural communities.

SELECT PODCASTS, LETTERS, OPINIONS, AND TESTIMONY

- December, 2024** “Andie — Letting Go of the Familiar to Make Room for What is Next”
What The Hell Do I Do Now?
[Link to Podcast](#)
- October, 2024** “Promoting the Theory and Practice of Environmental Conservation with the Future Dr. Andie Creel”
Heartwood Podcast
[Link to Podcast](#)
- February, 2020** “Let’s Remain Optimistic in Search for Our Next President”
Letter to the Editor of the Bozeman Daily Chronicle
- April, 2019** Testified at Montana State Senate Fish and Game Committee on SJ-7 Study resolution on the value and costs of wolves and grizzlies in Montana
[Link to video of testimony](#)
Covered by the Billings Gazette
- May, 2018** “Open Space Reminds us to be Stewards of the Land”
Letter to the Editor of the Bozeman Daily Chronicle
- March, 2017** Testified at Montana State House Natural Resources Committee on HJ-7 Resolution calling on Congress to release wilderness study areas across Montana
[Link to published testimony as a blog post](#)
- January, 2017** “Return the Favor and Protect Public Lands”
Letter to the Editor of the Bozeman Daily Chronicle
- October, 2016** “We Must Ask Ourselves, Where Will the Children Go?”
Opinion to the Editor of the Bozeman Daily Chronicle

SELECTED SKILLS

- Computer Science:
 - Advanced in R and Python
 - Confident in managing and analyzing “big” datasets (*e.g.* credit card spending, mobility data, and satellite imagery at the national scale)
 - Experienced with Amazon Web Services (AWS) including Amazon Elastic Compute Cloud (ec2) and Amazon Simple Storage Service (s3)
 - Comfortable on the command line
 - Proficient in STATA, Java, C, Ruby, ML
 - Non-analytical languages: LaTeX, UML, HTML, CSS
- Advanced writing: Academic, Strategic Plans, Opinion