

DANIEL COOLEY

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CBEA, University of Wyoming
1000 E. University Ave
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EDUCATION

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|------------|--|---------------|
| PhD | Colorado School of Mines, Mineral and Energy Economics | Expected 2024 |
| BA | Colorado State University, Economics <i>Minor:</i> Environmental and Natural Resource Economics | 2018 |

RESEARCH

Dissertation

“Applications of Machine Learning in Natural Resource Economics”

Committee: Professors Adrienne Kroepsch (Chair), Steven M. Smith (Advisor), Jared Carbone, and Ben Gilbert.

Published Articles

“Center Pivot Irrigation Systems and Where to Find Them: A Deep Learning Approach to Provide Inputs to Hydrologic and Economic Models.” **Frontiers in Water**. 178. (Dec 2021). (with Reed M. Maxwell and Steven M. Smith).

<https://www.frontiersin.org/articles/10.3389/frwa.2021.786016/full>.

“Water and Wind: Tradeoffs of Irrigation and Clean Energy.” (with Steven M. Smith). Revisions *accepted* at **Journal of the Association of Environmental and Resource Economists**. Accepted manuscript available at <https://doi.org/10.1086/730269>.

Peer-Reviewed Chapters:

“Center Pivot Irrigation Systems as a Form of Drought Risk Mitigation in Humid Regions.” **American Agriculture, Water Resources, and Climate Change**. Edited by Gary D. Libecap and Ariel Dinar. *NBER, University of Chicago Press*. Ch.4. (Jul 2022). (with Steven M. Smith). Earlier version circulated as NBER Working Paper No. 30093 (May 2022).

<https://www.nber.org/papers/w30093>.

Current Projects

“Investing in Irrigation for Drought Risk Mitigation in Humid Regions: A Section Level Analysis.” (with Steven M. Smith)

“Do Farmers Dream of Electric Sheep? Colocation of Energy and Agricultural Resources.”

“Double or Nothing: Voluntary Carbon Markets and Tax Credit Stacking in Carbon Abatement Projects.” (with Angela Ture)

Presentations

AERE Annual Summer Conference, Miami, FL 2022
“Center Pivot Irrigation Systems as a Form of Drought Risk Mitigation in Humid Regions.”

MEA Annual Conference, Minneapolis, MN 2022
“Investing in Irrigation for Drought Risk Mitigation.”

RESEARCH EXPERIENCE

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| Energy Economist, Center for Business and Economic Analysis | 2024-Present |
| Graduate Research Assistant, Colorado School of Mines | 2020-2023 |

TEACHING EXPERIENCE

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| Graduate Teaching Assistant, Colorado School of Mines (Principles of Economics, Mines EBGN 201) | 2019-2021 |
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WORK EXPERIENCE

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| Arabic Cryptologic Linguist, U.S. Marine Corps | 2010-2016 |
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HONORS AND AWARDS

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| Vice President – SALUTE Veterans National Honor Society | 2017-2018 |
| Dean’s List – Colorado State University | 2017-2018 |
| SALUTE Veterans National Honor Society Scholarship | 2017 |

PROFESSIONAL AFFILIATIONS

American Economic Association
Association of Environmental and Resource Economists