

# Tyler Treakle

School of Sustainability  
Arizona State University

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[Website](#)

## Education

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- Arizona State University** 2021 – Spring 2026 (Expected)
- Ph.D. Candidate in Sustainability
    - Title: *The Economics of Ecosystem Management and Degradation*
    - Certificate: Environmental & Sustainability Economics
    - Committee: Joshua Abbott (co-chair), Kailin Kroetz (co-chair), Leah Gerber
    - Key coursework: ECN Ph.D. Core: Microeconomics I-II, Econometrics I-II  
ECN Ph.D. Topics: Advanced Econometrics, Environmental Economics
- The College of William & Mary** 2014 – 2018
- B.A. in Environmental Economics, B.S. in Biology (*Magna Cum Laude*)

## Professional Experience

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- *School of Sustainability, Arizona State University* 2021 – Present  
Graduate Research & Teaching Assistant
- *Resources for the Future* 2018 – 2021  
Research Assistant
- *School of Arts & Sciences, The College of William & Mary* 2017 – 2018  
Research Assistant
- *National Science Foundation & Michigan State University* 2017  
Research Experience for Undergraduates

## Research

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### Peer-Reviewed Publications

8. Stanley, A. E., Epanchin-Niell, R., **Treakle, T.**, & Iacona, G. D. (2024). [Attributes of preemptive conservation efforts for species precluded from listing under the US Endangered Species Act.](#) *Conservation Biology*, 38(2), e14200.
7. **Treakle, T.**, Epanchin-Niell, R., & Iacona, G. D. (2023). [Factors associated with preemptive conservation under the US Endangered Species Act.](#) *Conservation Biology*, 37(5), e14104.
6. **Treakle, T.**, Abbott, J. K., & Holland, D. S. (2023). [Not by fishing alone: Non-fishing employment and income for US West Coast fishers.](#) *Ocean & Coastal Management*, 243, 106763.
5. Epanchin-Niell, R. S., Jackson-Smith, D. B., Wilson, R. S., Ashenfarb, M., Dayer, A. A., Hillis, V., ... & **Treakle, T.** (2022). [Private land conservation decision-making: An integrative social science model.](#) *Journal of Environmental Management*, 302, 113961.
4. Epanchin-Niell, R., Thompson, A. L., & **Treakle, T.** (2021). [Public contributions to early detection of new invasive pests.](#) *Conservation Science and Practice*, 3(6), e422.

3. Haines, A. M., Leu, M., Costante, D. M., **Treacle, T. C.**, Parenti, C., Miller, J. R., & Malcom, J. W. (2021). [Benchmark for the ESA: having a backbone is good for recovery](#). *Frontiers in Conservation Science*, 2, 630490.
2. Twardochleb, L. A., **Treacle, T. C.**, & Zarnetske, P. L. (2020). [Foraging strategy mediates ectotherm predator–prey responses to climate warming](#). *Ecology*, 101(11), e03146.
1. Leu, M., Haines, A. M., Check, C. E., Costante, D. M., Evans, J. C., Hollingsworth, M. A., ... & **Treacle, T. C.** (2019). [Temporal analysis of threats causing species endangerment in the United States](#). *Conservation Science and Practice*, 1(8), e78.

#### Under Review

- Kuwayama, Y., Rayl, J., & **Treacle, T.** [Does the Value of Reliability Capitalize in Water Markets?](#) (*Economics Letters*)
- Kroetz, K., Leonard, B., **Treacle, T.**, Gigliotti, L., & Middleton, A. The high value of satellite data in terrestrial habitat corridor design for large migratory species. (*Nature Sustainability*)

#### Working Papers

- Labor Market Impacts of U.S. Endangered Species Act Regulations (with J.K. Abbott)

#### Work in Progress

- Invasive Species, Insecticide Use, and Infant Mortality
- The Cost of Connectivity: Managing Habitat for Seasonally Migratory Species (with K. Kroetz, B. Leonard, L. Gigliotti, A. Middleton)
- Bioeconomic Modeling of Linked Natural Resource Users (with J. Ashander, Y. Kuwayama, K. Kroetz, C. Speir)

#### Reports and Other Writings

- Bradford, M.A., Oldfield, E.E., Arredondo, M.G., Black, H.I.J., Forbes, E.S., ..., **Treacle, T.**, Tully, K., Kuebbing, S.E. and the Synthesizing Science Lab (2025) [Agricultural soil carbon: A call for improved evidence of climate mitigation](#). Yale Applied Science Synthesis Program and Environmental Defense Fund white paper.
- Burnett, J.W., Donaldson, D., Wallander, S., **Treacle, T.** (2024) [System of Environmental Economic Accounting: Soil Health](#). London Group Meeting 2024 Issue Paper.
- Blog Post: [Hot Water & Faster Species](#)

## Presentations

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#### Conference Presentations

- Berkeley/Sloan Summer School in Environmental and Energy Economics 2025
- Association of Environmental & Resource Economists (AERE) Summer Conference 2025  
*Labor Market Impacts of U.S. Endangered Species Act Regulations*
- Northeastern Agricultural & Resource Economics Association (NAREA) Annual Conference 2025  
*Labor Market Impacts of U.S. Endangered Species Act Regulations*
- Agricultural & Applied Economics Association (AAEA) Summer Conference 2024  
*Assessing the Heterogenous Labor Market Impacts of U.S. Endangered Species Act Regulations*
- North American Congress for Conservation Biology (NACCB) Summer Conference 2022  
*Factors associated with preemptive conservation under the U.S. Endangered Species Act*

- Ecological Society of America (ESA) Annual Conference 2018  
*Climate change, faster species, and food webs*
- 22nd Annual Conference of the Wildlife Society 2016  
*Quantifying threats that impact federally listed threatened and endangered species*

## Teaching & Mentoring

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*Teaching (\* sole instructor, + TA, ° online, <sup>g</sup> graduate level) - Arizona State University*

- SOS 325: Economics of Sustainability\*° Summer 2025
- SOS 540: Statistical Modeling for Sustainability<sup>+g</sup> (Dr. Joshua Abbott) Spring 2025
- SOS 325: Economics of Sustainability\*° Summer 2024
- SOS 325: Economics of Sustainability<sup>+</sup> (Dr. Michael Hanemann) Spring 2024
- SOS 325: Economics of Sustainability<sup>+</sup> (Dr. Bryan Leonard) Fall 2023

*Mentoring*

- Rozetta Locksa: ASU [Sustainability Undergraduate Research Experience](#) Spring 2025 - Present  
Project title: Using Large Language Models to Assess Threats to Endangered Species.
- Annabelle Stanley: Intern at Resources for the Future Summer 2019  
Project title: Attributes of preemptive conservation efforts for species precluded from listing under the US Endangered Species Act.

## Awards & Fellowships

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- ASU Graduate and Professional Student Association Travel Grant Award 2025
- AERE Travel Scholarship 2025
- ASU Graduate College Travel Award 2025
- [Agricultural Scholars Fellowship](#) (USDA & Farm Foundation) 2024
- ASU Global Futures Teaching Fellow Award (with K. Kroetz) 2023
- ASU Graduate and Professional Student Association Travel Grant Award 2022
- NSF Research Experience for Undergraduates - Michigan State University 2017
- "Best Undergraduate Project" at the 22nd Annual Conference of the Wildlife Society 2016
- Federal Water Quality Association's Richard Barber Scholarship; MENSA Sylvania Scholarship 2014

## Service & Miscellany

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*Service*

- Referee: Scientific Reports, AERE Summer Conference Abstracts
- Community: collaboration with Central Arizona Conservation Alliance to build [Rshiny](#) application to track real time invasive species observations and prioritize management decisions (2021 - present)
- Hiring committees: Resources for the Future RA representative on hiring committee (2020)

*Programming & Software*

- R, Rshiny, Python, ArcGIS, Matlab, Stata, [GitHub](#), L<sup>A</sup>T<sub>E</sub>X