

Jennifer L. Raynor

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Education

- 2017 Ph.D. in Ag. and Applied Economics, University of Wisconsin-Madison (UW-Madison)
- 2016 M.S. in Environment and Resources, UW-Madison
- 2012 M.A. in Applied Economics, Johns Hopkins University
- 2005 B.A. in Economics, LeMoyne College: *integral honors* (highest honors) and *summa cum laude*

Positions Held

- 2022-curr. Assistant Professor, Forest and Wildlife Ecology Department, UW-Madison
- 2019-22 Assistant Professor, Economics Department, Wesleyan University
- 2017-19 Research Economist, National Oceanic and Atmospheric Administration (NOAA) Fisheries
- 2013-17 Graduate Teaching and Research Assistant, UW-Madison
- 2006-13 Economist, Bureau of Labor Statistics

Affiliations and Boards

- 2024-curr. Chair (founding), Science Advisory Board, Global Fishing Watch
- 2023-curr. Trustee, Board of Trustees, Global Fishing Watch
- 2023-curr. Faculty Affiliate, Ag. & Applied Economics Department, UW-Madison
- 2023-curr. Research Affiliate, Environmental Markets Lab (emLab), UC Santa Barbara
- 2023-curr. Faculty Affiliate and Teton Fellow, College of Business, University of Wyoming
- 2019-22 Faculty Affiliate, College of the Environment, Wesleyan University

Fields of Interest

- Primary Environmental and Resource Economics, Applied Econometrics, Causal Inference
- Secondary Data Science/Machine Learning, Geographic Information Systems (GIS), Remote Sensing

Publications

Refereed journal articles (#led or co-led paper, *graduate student co-author; [Google Scholar](#) profile)

- #10. **Raynor, J.**, S. Orofino, C. Costello, G. McDonald, J. Mayorga, and E. Sala (2025). “[Little-to-no industrial fishing occurs in fully and highly protected marine areas](#).” *Science* 389: 392-395.
→ **Featured on the cover** of *Science* (July 2025)
Selected media: [The New York Times](#), [NPR](#), [The Conversation](#), [Space.com](#)
- #9. Lewis, L., **J. Raynor**, and L. Richardson (2024). “[The nature of the beast: wildlife valuation from the iconic to the ordinary](#).” *Annual Review of Resource Economics* 16: 11.1-11.20.
- 8. G. McDonald, J. Bone, C. Costello, G. Englander, **J. Raynor** (2024). “[Global expansion of marine protected areas and the redistribution of fishing effort](#).” *Proceedings of the National Academy of Sciences* 121(29): e2400592121.

7. Paolo, F., D. Kroodsmas, **J. Raynor**, T. Hochberg, P. Davis, J. Cleary, L. Marsaglia, S. Orofino, C. Thomas, and P. Halpin (2024). “[Satellite mapping reveals extensive industrial activity at sea.](#)” *Nature* 625: 85–91.
Selected media: [Financial Times](#), [The Economist](#), [The Conversation](#), [Le Monde](#), [Die Zeit](#)
- #*6. Medoff, S. *, J. Lynham, and **J. Raynor** (2022). “[Spillover benefits from the world’s largest fully protected MPA.](#)” *Science* 20(378): 313-316.
Selected media: [Ocean with David Attenborough](#), [National Geographic](#), [Bloomberg](#), [BBC](#)
- #5. **Raynor, J.**, C. Grainger, and D. Parker (2021). “[Wolves make roadways safer, generating large economic returns to predator conservation.](#)” *Proceedings of the National Academy of Sciences* 118(22): e2023251118.
Selected media: [The Atlantic](#), [The Economist](#), [Freakonomics](#), [The Associated Press](#)
4. Lynham, J., A. Nikolaev, **J. Raynor**, T. Vilela, and J.C. Villaseñor-Derbez (2021). “[Reply to ‘Catch rate composition affects assessment of protected area impacts’.](#)” *Nature Communications* 12(1): 1590.
3. Lynham, J., A. Nikolaev, **J. Raynor**, T. Vilela, and J.C. Villaseñor-Derbez (2020). “[Impact of two of the world’s largest protected areas on longline fishery catch rates.](#)” *Nature Communications* 11(1): 979.
Selected media: [National Geographic](#), [Smithsonian Magazine](#)
2. Siders, Z., N. Ducharme-Barth, F. Carvalho, D. Kobayashi, S. Martin, **J. Raynor**, T.T. Jones, and R. Ahrens (2020). “[Ensemble random forests as a tool for modeling rare occurrences.](#)” *Endangered Species Research* 43: 183-197.
- #1. **Raynor, J.** and D. Phaneuf (2020). “[Can native species compete with valuable exotics? Valuing ecological changes in the Lake Michigan recreational fishery.](#)” *Journal of Great Lakes Research* 46(3): 643-655.

Popular press articles

2. **Raynor, J.** (Jul. 24, 2025). “[We tracked illegal fishing in marine protected areas – satellites and AI show most bans are respected, and could help enforce future ones.](#)” *The Conversation*.
1. **Raynor, J.** (Jan. 3, 2024, lead article). “[We used AI and satellite imagery to map ocean activities that take place out of sight, including fishing, shipping and energy development.](#)” *The Conversation*.

Fellowships, Honors, and Awards

- 2021-22 [Think Tank Fellowship](#), College of the Environment, Wesleyan University
- 2021 [Lone Mountain Fellowship](#), Property and Environment Research Center (PERC)
- 2005 Wall Street Journal Student Achievement Award
- Misc. Member of *Phi Kappa Phi*, *Pi Gamma Mu*, and *Omicron Delta Epsilon* honors societies

Grants and Funding

- 2024 U.S. Department of Agriculture Hatch Grant, “Economic Effects of Wolf Recovery on the Agricultural Sector in the United States” (\$122,433)
- 2021 Wesleyan University, Quantitative Analysis Center Student Apprenticeship (\$5,000)
- 2018 National Oceanic and Atmospheric Administration, internal competition (\$60,000)

Presentations and Workshops

Research Presentations

- 2025 National Academies of Sciences, Engineering, and Medicine, Workshop on Conservation, Animal Health Research, and New Approach Methods
University of Hawai‘i at Mānoa, Workshop on Energy and Environmental Research
UW-Madison, Biology Colloquium
UW-Madison, Department of Forest & Wildlife Ecology Seminar Series
- 2024 University of Minnesota, Department of Applied Economics Seminar Series
PERC, Innovations in Wildlife Conservation in the Pacific Northwest Workshop
Global Fishing Watch, Satellite Mapping Reveals Extensive Industrial Activity at Sea Webinar
Gulf States Marine Fisheries Commission, Validating Rec. Fishing Effort Estimates Workshop
NOAA Fisheries, Citizen Science/Remote Sensing for Rec. Fishing Analysis Workshop
UW-Madison, Environmental and Resource Economics Seminar
- 2023 Allied Social Science Associations (ASSA) Annual Meeting
UW-Madison, Center for Ecology and the Environment Fall Symposium
UW-Madison, Environmental and Resource Economics Seminar
- 2022 Assoc. of Environmental and Resource Economists (AERE) Summer Conference
Indiana University, Young Scholars Symposium on Natural Resource Governance
University of Wyoming, Haub School of the Environment Seminar
University of Wyoming, College of Business Seminar
Bates College, Economics Department Seminar
Le Moyne College, Social Sciences Seminar Series
Colgate University, Environmental Studies Department Brownbag Series
Queens University of Charlotte, Data Analytics Symposium
- 2021 Western Economic Association International (WEAI) 96th Annual Conference
AERE Summer Conference
Yale University, School of the Environment Seminar
PERC, Fellowship Seminar Series
Wesleyan University, Wasch Center Lecture Series
- 2019 PERC, Incentives for Wildlife Workshop
Wesleyan University, College of Social Studies Monday Lunch Series
- 2018 International Institute of Fisheries Economics and Trade (IIFET) Conference
Le Moyne College, Social Sciences Seminar Series
- 2017 North Carolina State University, Camp Resources Workshop
WEAI 92nd Annual Conference
Heartland Environmental and Resource Economics Workshop at Illinois (poster)

Workshop Participation

- 2024 University of Wyoming, Grand Teton Group Workshop
- 2023 University of Wyoming, Yellowstone International Wildlife Policy Conference Development
UC Santa Barbara, Quantifying Climate Resilience Workshop
UC Santa Barbara (with Conservation Intl.), Climate Solutions Collaborative Workshop
UC Santa Barbara (with Environmental Defense Fund), Climate and Oceans Workshop
- 2022 University of Wyoming, Grand Teton Group Workshop
- 2018 Western Pacific Fishery Management Council, Sea Turtle/Seabird Bycatch Workshops

Teaching ExperienceUW-Madison

- Undergrad Decision Methods for Natural Resource Managers: 2023, 2024
- Undergrad Climate Change Economics and Policy (Teaching Assistant): 2016
- Undergrad Introductory Biology (Teaching Assistant): 2013, 2014 (2)

Wesleyan University

- Undergrad Introduction to Economic Theory: 2019 (2), 2020, 2021
- Undergrad Climate Change Economics and Policy: 2020 (2), 2021
- Undergrad Environmental and Resource Economics: 2020, 2021

Guest Lectures

- Graduate UW-Madison, PhD Research Colloquium (Ag. & Applied Economics): 2025
UW-Madison, Assessment of Environmental Impact (Soil Sciences): 2025
- Undergrad UW-Madison, The Environment and the Global Economy (Ag. & Applied Economics): 2024
University of Wyoming, Approaches to Problem Solving in the Environment: 2023
- Professional Conservation Strategy Fund, Economics and Finance for Environmental
Leadership: 2022, 2023, 2024
Conservation Strategy Fund, Natural Resource Economics: self-paced online course

ServiceProfession

- 2023-24 Mentor, AERE Scholars Program
- 2022, 23 Mentor, AERE Graduate-Student Engagement Matchup Program
- Ongoing Referee for: Journal of the Association of Environmental and Resource Economists,
Environmental and Resource Economics, Land Economics, International Review of
Environmental and Resource Economics, Journal of Outdoor Recreation and Tourism, Lake
and Reservoir Management

Department and University

- 2024-curr. Senator, Faculty Senate, UW-Madison
- 2024-25 Member, Committee for Justice, Equity, Diversity, and Inclusion, UW-Madison
- 2021-22 Mentor, First Generation Student Collective, Wesleyan University

- 2020 Panel member, New Faculty Orientation Program, Wesleyan University
- 2020 Mentor, Remote Teaching Mentor Program, Wesleyan University
- 2020, 2019 Search committee member, Department of Economics, Wesleyan University
- 2016-17 Mentor, Nelson Institute Mentor Program, UW-Madison
- 2015-17 Organizer, Environmental Economics Seminar, UW-Madison

Advising

- Ongoing Tai Lohrer UW-Madison (Ph.D. Ag. and Applied Economics - chair)
- Ongoing Tara Mittelberg, UW-Madison (Ph.D. Ag. and Applied Economics)
- Ongoing Heather Cox, UW-Madison (Ph.D. Forestry)
- 2022 Pukitta Chunsuttiwat, UW-Madison (Ph.D. Ag. and Applied Economics)
- 2021 Sarah Medoff, University of Hawai'i at Mānoa (Ph.D. Economics)
- 2022 J.J. LaCorte, Wesleyan University (Environmental Studies capstone - chair)
- 2022 Asher Leeming, Wesleyan University (Environmental Studies capstone - chair)
- 2021 Harrison Karp, Wesleyan University (Economics honors thesis, high honors - chair)

Media Coverage

Raynor, *et al.* (2025): Top 0.5% of all research outputs ever tracked by Altmetric. Most significant outlets:

- Press [The New York Times](#), [The Conversation](#), [Space.com](#), [Phys.org](#), [Oceanographic Magazine](#) (UK), [Agencia EFE](#) (Spain), [Carbon Pulse](#) (UK), [Deutsche Welle](#), and extensive syndication
- Radio [NPR](#), [Deutschlandfunk](#) (Germany)

Paolo, Kroodsma, Raynor, *et al.* (2024): Top 0.03% of all research outputs ever tracked by Altmetric. Collated partner and media coverage [here](#); most significant outlets below.

- Press [Financial Times](#), [The Economist](#), [The Guardian](#), [The Conversation](#), [Nature](#), [Smithsonian Magazine](#), [New Scientist](#), [Tech Crunch](#), [The Verge](#), [Space.com](#), [BBC](#) (U.K.), [Le Monde](#) (France), [Die Zeit](#) (Germany), [El Tiempo](#) (Colombia), [elDiario.es](#) (Spain), syndication in 1,000+ outlets
- TV [The Weather Channel](#), [ABC](#) (Australia)
- Radio [Short Wave - NPR](#), [ABC](#) (Australia), [Times Radio](#) (U.K.), [Important not Important](#)

Medoff, Lynham, and Raynor (2022): Top 0.2% of all research outputs ever tracked by Altmetric

- Press [Bloomberg](#), [National Geographic](#), [Nature](#), [Science](#), [AAAS](#), [Mongabay](#), [Civil Beat](#), [Popular Science](#), [Honolulu Star Advertiser](#), [UW-Madison](#), [Badger Herald](#), [BBC](#) (U.K.), [The Guardian](#) (U.K.), [Der Spiegel](#) (Germany), [ABC](#) (Australia)
- Film [Ocean with David Attenborough](#) documentary
- Radio [Science Friday](#), [Hawaii Public Radio](#), [Deutschlandfunk](#) (Germany)

Raynor, Grainger, and Parker (2021): Top 0.01% of all research outputs ever tracked by Altmetric

- Press [The Atlantic](#), [The Economist](#), [The Associated Press](#), [Ars Technica](#), [Smithsonian Magazine](#), [Scientific American](#), [ScienceNews](#), [Daily Mail](#) (U.K.), [BBC](#) (U.K.),

[DerStandard](#) (Austria), [El País](#) (Spain), [FRB](#) (France), [FOX6 News Milwaukee](#),
syndication in 100+ outlets

TV [FOX6 News Milwaukee](#)

Radio [Freakonomics podcast](#), [Quirks and Quarks](#) (Canada), [Late Night Live](#) (Australia)

Lynham, Nikolaev, Raynor, *et al.* (2020): Top 0.01% of all research outputs ever tracked by Altmetric

Press [National Geographic](#), [Smithsonian Magazine](#), [Mongabay](#)

Other interviews

Press [Our Shared Seas](#), [Nautilus](#)