

Jennifer L. Raynor

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Education

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

- 2023-curr. 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. Teton Fellow, Economics Department, 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 Machine Learning, Geographic Information Systems (GIS), Remote Sensing

Publications

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

- #8. Lewis, L., J. Raynor, and L. Richardson (in press). “The nature of the beast: wildlife valuation from the iconic to the ordinary.” *Annual Review of Resource Economics*.
- 7. Paolo, F., D. Kroodsma, **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: [National Geographic](#), [Bloomberg](#), [BBC](#), [Der Spiegel](#)

- #5. **Raynor, J.**, C. Grainger, and D. Parker (2021). “[Wolves make roadways safer, generating large economic returns to predator conservation.](#)” *The Proceedings of the National Academy of Sciences* 118(22): e2023251118.
Selected media: [The Atlantic](#), [The Economist](#), [Freakonomics](#), [The Associated Press](#), [El País](#)
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.

Refereed journal articles in review

9. McDonald, G., J. Bone, C. Costello, G. Englander, and **J. Raynor**. “Global expansion of marine protected areas and the redistribution of fishing effort.”

Popular press articles

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
- 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

- 2021 Quantitative Analysis Center Student Apprenticeship, Wesleyan University (\$5,000)
- 2020 Sustainability and Environmental Justice Initiative, Wesleyan University (\$500)
- 2018 National Oceanic and Atmospheric Administration internal grant (\$60,000)
- 2017 Graduate School Grant, UW-Madison (\$600)
- 2015 Graduate School Grant, UW-Madison (\$1,250)

Presentations and Workshops

Research Presentations

- 2024 Global Fishing Watch, Satellite Mapping Reveals Extensive Industrial Activity at Sea Webinar
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
Property and Environment Research Center (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

- 2023 University of Wyoming, Yellowstone Internat. 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 Bycatch Workshop
Western Pacific Fishery Management Council, Seabird Bycatch Workshop

Teaching Experience

UW-Madison

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

Wesleyan University

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

Guest Lectures

- Undergrad UW-Madison, The Environment and the Global Economy: Spring 2024
- University of Wyoming, Approaches to Problem Solving in the Environment: Fall 2023
- Professional Conservation Strategy Fund, Economics and Finance for Environmental Leadership: Summer 2022, 2023

Service

Profession

- 2023-curr. 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. Faculty Senator, Department of Forest and Wildlife Ecology, UW-Madison
- 2024-curr. Member, Committee for Justice, Diversity, Equity, and Inclusion, UW-Madison
- 2021-22 Mentor, First Generation Student Collective, Wesleyan University
- 2021 Honors thesis reader (1 Economics, 1 College of Social Studies), Wesleyan University
- 2020 Panel member, Sustainability and Environmental Justice, Wesleyan University
- 2020 Panel member, New Faculty Orientation Program, Wesleyan University
- 2020 Mentor, Remote Teaching Mentor Program, Wesleyan University
- 2020 Search committee member, Department of Economics, Wesleyan University
- 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 (Committee) Heather Cox, Ph.D. Forestry, UW-Madison
- Ongoing (Committee) Elizabeth Jurado, M.S. Wildlife Ecology, UW-Madison
- 2022 grad. (Committee) Pukitta Chunsuttiwat, Ph.D. Ag. and Applied Economics, UW-Madison
- 2021 grad. (Co-chair) Sarah Medoff, Ph.D. Economics, University of Hawai'i at Mānoa
- 2022 grad. (Chair) 2 environmental studies undergraduate capstones, Wesleyan University
- 2021 grad. (Chair) 1 economics honors thesis (high honors), Wesleyan University

Media CoverageOf refereed journal articles

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

- Press [Financial Times](#), [The Economist](#), [The Guardian](#), [The Conversation](#), [Nature](#), [Smithsonian Magazine](#), [New Scientist](#), [Tech Crunch](#), [The Verge](#), [Space.com](#), [Le Monde](#) (France), [Die Zeit](#) (Germany), [El Tiempo](#) (Colombia), [elDiario.es](#) (Spain), syndicated coverage in 1,000+ outlets
- TV [The Weather Channel](#), [ABC](#) (Australia)
- Radio [Short Wave - NPR](#), [ABC](#) (Australia), [Times Radio](#) (U.K.)

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)
- 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](#) and [BBC](#) (U.K.), [DerStandard](#) (Austria), [El País](#) (Spain), [FRB](#) (France), [FOX6 News Milwaukee](#), syndicated coverage in 100+ outlets
- TV [FOX6 News Milwaukee](#)
- Radio [Freakonomics](#), [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](#)