

Ethan T. Addicott

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Areas of Expertise

- Natural Resource Economics
- Ecosystem Service Valuation
- Natural Capital Valuation & Accounting
- Marine and Coastal Economics

Positions Held

- Lecturer (Assistant Professor) in Economics, *University of Exeter Business School* (2022 - Present)
 - Member, *Land, Environment, Economics and Policy (LEEP) Institute* (2022 - Present)
 - Affiliate, *Global Systems Institute* (2023 - Present)
- Member, Global Ocean Accounts Partnership Panel of Technical Experts (2023 - Present)
- Co-Editor, *Environmental and Resource Economics* (2024 - Present)

Education

Ph.D., Env. and Natural Resource Economics, Yale School of the Environment, 2022

M. Phil, Yale Graduate School of Arts and Sciences, 2020.

M.A., Economics, Yale Graduate School of Arts and Sciences, 2019.

M.E.Sc., Natural Resource Economics, Yale School of Forestry and Env. Studies, 2017.

A.B., Cum Laude in Field, Environmental Science and Public Policy, Harvard University, 2014.

Research

Working Papers (Available on Request)

Addicott, E., Woodill, A.J., Kling, D., Johnson, S.M., Watson, J. “Measuring Ocean Ecosystem Wealth in the Context of Global Change and Conflict” [In Review]

Conte, M., **Addicott, E.** , Millerhaller, M. “Scarcity, WTP for Species, and Imperfect Substitutability with Market Goods.” [In Review]

Woodill, A. J., **Addicott, E.**, Andujar, N. et al. “Effective Management of the Hawaii Longline Bigeye Tuna Fishery.”

Addicott, E. “Many Assets, Many Services: Valuing Beaches, Buildings, and Dunes in Coastal North Carolina.”

Addicott, E. “Mother Nature or Municipal Government: Dispersion in the Value of Produced and Natural Capital”

Peer-Reviewed Publications

13. Bateman, I.J., Binner, A., **Addicott, E.**, et al. “Integrating science with economics is essential to achieving multiple land use objectives.” *Proceedings of the National Academy of Sciences* (2024). In Press.
12. Binner, A., **Addicott, E.**, Balmford, B., et al. “Using the natural capital framework to integrate biodiversity into sustainable, efficient and equitable environmental-economic decision making.” *Philosophical Transactions of the Royal Society B*. (2024). In Press.
11. Mancini, M., Collins, R. **Addicott, E.**, et al. “Biodiversity offsets must address the trade-offs between people and nature: Case study and general principles.” *One Earth*. (2024). In Press.
10. Fenichel, E., **E. Addicott**, K. Grimsrud, G.M. Lange, I. Porras, B. Milligan. “Modifying national accounts for sustainable ocean development.” In J. Lubchenco and P. M. Haugan (Eds.) *The Blue Compendium* (pp 279-307). Springer International Publishing. (2023).
9. **Addicott, E.**, E. Fenichel, M. Bradford, M. Pinsky, S. Wood. “Reply to Gilbert, Eyster, and Zipkin” *Frontiers in Ecology and the Environment*. **21(3)**, 115-116 (2023).
8. **Addicott, E.**, E. Fenichel, M. Bradford, M. Pinsky, S. Wood. “Toward an improved understanding of causation in the ecological sciences.” *Frontiers in Ecology and the Environment*. **20(8)**, 474-480 (2022).
7. Bradford, M., S. Wood, **E. Addicott**, E. Fenichel, et al. “Quantifying microbial control of soil organic matter dynamics at macrosystem scales” *Biogeochemistry*. 1-22 (2021).
6. Fenichel, E., **E. Addicott**, K. Grimsrud, G.M. Lange, I. Porras, B. Milligan. “Modifying national accounts for sustainable ocean development.” *Nature Sustainability*. **3**, 889-895 (2020).
5. **Addicott, E.**, E. Fenichel, M. Kotchen. “Even the Representative Agent Must Die: Using Demographics to Inform Long-Term Social Discount Rates.” *Journal of the Association of Environmental and Resource Economists*. **7(2)**, 379-415 (2020). Previously NBER working paper 23591
4. Fenichel, E., B. Milligan, I. Porras, **E. Addicott**, et al. “National Accounting for the Ocean and Ocean Economy.” *World Resources Institute*. (2020).
3. **Addicott, E.** and E. Fenichel. “Spatial aggregation and the value of natural capital.” *Journal of Environmental Economics and Management*. **95**, 118-132 (2019).
2. **Addicott, E.**, K. Kroetz, M. Reimer, J. Sanchirico, D. Lew, J. Huetteman. “Identifying the potential for cross-fishery spillovers: A network analysis of Alaskan permitting patterns.” *Canadian Journal of Fisheries and Aquatic Sciences*. **76(1)**, 56-58 (2019). Previously Resources for the Future Working Paper 17-23
1. K. Zimmerman, D. Levitis, **E. Addicott**, A. Pringle. “Selection of pairings reaching evenly across the data (SPREAD): A simple algorithm to design maximally informative fully crossed mating experiments.” *Heredity*. **116**, 182-189 (2016).

Book Chapters

1. **Addicott, E.** “The Value and Configuration of Coastal Natural Capital.” In N. Muller, E. Fenichel, M. Bohman (Eds.) *Measuring and Accounting for Environmental Public Goods: A National Accounts Perspective*. University of Chicago Press. Available March 2025

Grants, Fellowships, Awards

- PI Amy Binner (Exeter), co-I **E. Addicott**, and co-I T. Cantillo *Case Studies: The value of culture and heritage capital with Forestry England* - **£9,987** (2023-2024)
- PI Amy Binner (Exeter), co-I **E. Addicott**, co-I Ian Bateman (Exeter), and others. *Understanding the Value of Outdoor Culture and Heritage Capital for Decision Makers* - **£372,904** (2023-2026)
- PI James Watson (OSU), co-PI **E. Addicott**, and others. *Future Fish Wars: Chasing Ocean Ecosystem Wealth*, US Dept of Defense Minerva Research Initiative Grant - **\$1.4 million** (2023-2026)
- **E. Addicott** co-PI with James Webber. *Challenges and Opportunities for Urban Stormwater Infrastructure in the Face of Global Change*, Natural Environment Research Council Cross-disciplinary Research for Discovery Science Grant - **£14,324** (2023)
- CT Sea Grant Marine and Coastal Economics Fellow - **\$20,000** (2021)
- NSF Graduate Research Fellowship Program, Honorable Mention (2017)

Research Communication

Selected Conference and Seminar Presentations^V - held virtually

- 2024 Invited Seminar, University of Birmingham Economics Department, Birmingham, UK; Defense Geospatial Intelligence Conference. London, UK; US Department of Defense Minerva Program Review, Arlington, VA.; Panel Moderator, Workshop on Climate Change and Natural Capital, RFF, Washington, D.C.; EAERE Summer Conference. Leuven, Belgium; BIOECON Conference. Kings College, Cambridge, UK; Policy Research Forum. Exeter, UK.
- 2023 Invited Panel Member, Yale Climate and Economic Growth Conference, New Haven, CT; Internal LEEP Seminar, Exeter, UK; University of Exeter Undergraduate Economics Society Talk, Exeter, UK; Invited Panel Member, AERE Workshop on Natural Capital Accounting^V; EAERE Summer Conference, Limassol, Cyprus; Sustainable Management of UK Marine Resources Conference, Bristol, UK; NBER CRIW Conference on Measuring and Accounting for Environmental Public Goods, Washington D.C.; Exeter Environment and Sustainability Institute/ExeterMarine Research Network, Penryn, UK^V; Global Systems Institute Seminar, Exeter, UK
- 2022 University of Exeter Undergraduate Economics Society Talk, Exeter, UK; NBER CRIW Workshop on Measuring and Accounting for Environmental Public Goods^V; Northeast Workshop on Energy Policy and Environmental Economics, Pittsburgh, PA; University of Exeter Economics Department Seminar, Exeter, UK^V;
- 2021 Fordham University Economics Department, New York, NY^V Environmental and Natural Resource Economics Seminar, Yale University, New Haven, CT; OSWEET Series: September 24th^V; XXII Annual BIOECON Conference, Jackson, WY; 27th Ulvön Conference on Environmental Economics, Ulvön, Sweden^V; 5th International Symposium on the Ocean in National Income Accounts, Galway, Ireland^V; Yale School of the Environment Research Day, New Haven, CT^V; Interdisciplinary PhD Workshop in Sustainable Development, New York, NY^V
- 2020 Confluence Research and Discussion Series, New Haven, CT^V; ECON Student Interest Group Lunch Series, New Haven, CT
- 2019 Global Dialogue on Ocean Accounting, Sydney, Australia
- 2018 Interdisciplinary PhD Workshop in Sustainable Development, New York, NY

- 2017 AERE Summer Conference, Pittsburgh, PA; Yale F&ES Environmental Research Conference, New Haven, CT
- 2016 AERE Summer Conference, Breckenridge, CO

Other Presentations/Non-Peer-Reviewed Publications/Media

Articles/Blogs

- Addicott, E.T. (2023). How climate change is re-allocating ocean wealth – and why it matters. *Exeter Expertise*.
- Addicott, E. T. (2021). Dashboard and Indicators for the Blue Economy. PANORAMA Solutions.
- Addicott, E. T. (2020). Starting a conversation about ocean accounting. SpringerNature Sustainability Community.
- Fenichel, E. P., Kotchen, M. J., & Addicott, E. T. (2017). Climate changes the debate: The impact of demographics on long-term discount rates. VoxEU/CEPR.

Teaching († teaching fellow, * assistant/grader)

University of Exeter Business School, 2022 - present

- BEE3076: Environmental Economics and Sustainability (Autumn 2024)
- BEE1024B: Mathematics for Economists (Autumn 2022/23/24)
- BEM162: Environmental Economics and Sustainability (Autumn 2023)

Yale School of the Environment, 2016-2022

- Land Use and Spatial Analysis Summer Module (Summer 2018, Summer 2019 Field Courses)
- †Microeconomics for Environmental Management (Fall 2020)
- †Economics of Sustainability (Spring 2020) [Half Semester Acting Instructor]
- †Environmental Economics and Policy (Spring 2019)
- †Land Use and Spatial Analysis Summer Module (Summer 2016 Field Course)
- †Applied Math for Environmental Science (Fall 2016, Fall 2019)

Yale University, Department of Mathematics, 2015-2018

- †Linear Algebra and Applications (Spring 2016, Spring 2017)
- Calculus II (Fall 2015, Fall 2018)

Harvard University, Concentration in Environmental Science and Public Policy, 2014-2015

- †Sustainable Development, *Prof. Bill Clark* (Spring 2015)
- †Environmental Politics, *Prof. Sheila Jasanoff* (Fall 2014)

Harvard University, Department of Mathematics, 2011-2015

- Calculus II (Fall 2014, Spring 2015)
- †Modeling Differential Equations for the Life Sciences (Fall 2014, Spring 2015)
- *Calculus II (Fall 2011, Fall 2012, Spring 2013, Summer 2013, Summer 2014)
- *Modeling Differential Equations for the Life Sciences (Spring 2012, Fall 2013, Spring 2014)

Teaching Recognition and Certification

Fellow of HEA (HE Advance), Awarded Dec 2023

Double Nominee, ESE Academic of the Year, University of Exeter 2023 Teaching Awards

Yale School of the Environment Award for Excellence as a Teaching Fellow (2020)

Certificate of Distinction for Teaching, Derek Bok Center for Teaching and Learning (2014,2015)

Dissertation and Research Supervision and Mentoring - *Current

Undergraduate Dissertation: 2024 B. Grant*, A comparative analysis of valuation methods for Natural and Cultural assets; 2023 E. Perez Ortiz, Identifying the value flow and the price of NFTs;

Undergraduate Research Students: 2024 D. Mears*, B. Gardiner*; M. Osman*; N. MacKenzie*

Financial Economics MSc: 2024 J. Yang*;

Economics MSc: 2024 F. Zahra*;

Money, Banking and Finance MSc: 2023 J. Wang; R. Wang; S. Wang; Z. Wang

Global Sustainability Solutions MSc: S. Agarwal, How can we sustainably manage tourism in a protected area? A case study of Nagarhole National Park; S. Gibson, Sustainability and Heritage: Assessing Willingness to Pay at Stourhead

MRes Advisees: 2024 A. Lisulo*

PhD Advisees: 2024 T. Cantillo Garcia*, J. Douglas*

Postdoctoral Scholars Mentored: 2024 A. Samant Singhar*, P. Barros*

Service

- Journal Referee: *Journal of Environmental Economics and Management, Environmental and Resource Economics, Ecological Economics, Nature Sustainability, Nature Climate Change, Marine Policy, Journal of Wildlife Management and Wildlife Monographs, Wildlife Society Bulletin*
- With Industrial Experience Academic Personal Tutor, University of Exeter Business School (2022-2023)
- Departmental EDI Committee co-representative (2023-Present)
- LEEP Seminar Co-Organizer (2023-Present)

Professional Associations * Current

- European Association of Environmental and Resource Economists*
- Ecological Society of America
- European Economic Association
- American Economic Association
- Association of Environmental and Resource Economists*