Caroline Lundquist Noblet

ORCID 0000-0002-3122-9268

Google Scholar: Caroline L. Noblet

5782 Winslow Hall University of Maine Orono, Maine 04469 ph: (207) 581-3172 fax: (207) 581-4278

Caroline.noblet@maine.edu

Education

- Ph.D. Economic Psychology, University of Maine. 2012. Dissertation Title: Information Processing and Environmental Behavior
- M.S. Resource Economics and Policy, University of Maine. 2005. Thesis Title: *Factors* Affecting Consumer Assessment of Green Labeled Traditional Fuel Passenger Vehicles.
- B.A. Economics and Environmental Studies, Boston College. 1999.

Professional Work Experience

Associate Professor	School of Economics, University; September 2019 - present
Assistant Professor	School of Economics, University of Maine;
	September 2013 – August 2019
Lecturer	School of Economics, University of Maine;
	August 2007 – September 2013
Instructor/Research Associate	Department of Resource Economics and Policy, and the
	Margaret Chase Smith Policy Center, University of Maine
	May 2005- August 2007
Graduate Research Assistant	Department of Resource Economics and Policy, University of
	Maine; August 2003- May 2005
High School Teacher	Weymouth High School Science Department, Weymouth, MA
	August 2001- August 2003

Affiliations

Cooperating Faculty (at University of Maine)

Senator George J. Mitchell Center for Sustainability Solutions, Margaret Chase Smith Policy Center, Ecology and Environmental Sciences Program, Maine Agricultural Center

Honors and Awards

2024	Outstanding mentorship of students in sustainability research - Mitchell Center
	for Sustainability Solutions (nominated by my graduate students)
2023	Outstanding Public Service Through Economics - from the Northeastern
	Agricultural and Resource Economics Association (NAREA).
2023 & 2024	Nominee. Univ. of Maine <i>Faculty Mentor Award</i> (nominated by multiple students)
2022	Senator George J. Mitchell Center for Sustainability Solutions: Award for
	<i>Outstanding contribution toward the development of a solution by a research team.</i>
2018	Best paper award of the Year, Aquaculture Economics and Management
2016	Outstanding Teaching Award, College of Natural Sciences, Forestry and
	Agriculture. Awarded to one faculty member per year (from each college) by a
	committee of their peers. My award committee noted "She brings her research
	program to the classroom, infecting her students with understanding that
	economics is a discipline alive, not just chapters in a textbook".
2012	Outstanding Graduate Mentor Award, College of Natural Sciences, Forestry and
	Agriculture. Awarded to one graduate faculty member per year (from each
	college within the University) by the Graduate Student Government of the
	University of Maine for "going above and beyond the teaching of courses, or
	academic and research advising."
	Caroline L. Noblet

PUBLICATIONS

Journal Articles, Published and Accepted (44)

^{*}Indicates graduate student author; [§]indicates undergraduate student author

- 44. Is Aquaculture a Path to Community Resilience in Maine? BJ Cotton, CL Noblet, B Wyatt, KS Evans, MF Teisl. *Maine Policy Review* <u>32(2)</u> 78-86.
- Moavenzadeh Ghaznavi, Simin, Charity Zimmerman, Molly E. Shea, Jean D. MacRae, John M. Peckenham, Caroline L. Noblet, Onur G. Apul, and A. Dianne Kopec.
 "Management of per-and polyfluoroalkyl substances (PFAS)-laden wastewater sludge in Maine: Perspectives on a wicked problem." Biointerphases 18, no. 4 (2023).
- 42. McDermott, S. and **Noblet, C.L.** (2023) The (indirect) effects of windfall funds on sustainability behavior: Insights for carbon fee dividends. *Economics of Energy and Environmental Policy, 12(1)*
- Zimmerman^{*}, C.H., Noblet, C.L. and Shea[§], M. (2022). Forever Chemicals Needing Immediate Solutions: Mainers' Preferences for Addressing PFAS Contamination. *Maine Policy Review*. <u>31(1)</u>.
- 40. Sigaud^{*}, L., Daley, A., Rubin, J., & **Noblet, C. L.** (2022). The effects of recent minimum wage increases on self-reported health in the United States. *Social Science & Medicine*, 115110.
- Goff, S.H., Noblet C.L. and J.R. Anthony^{*}. (2021) Economic valuation as a communication device for environmental philanthropy: Evidence from the lab and field. *Land Economics*. 97(3), 588-607.
- Anderson, M.W. and Noblet, C.L. (2020). We are Maine Is there an Authentic Maine Public Policy. *Maine Policy Review*, 29(2), 39-44.
- Rickard, L., Britwum, K., Noblet, C.L. and Evans, K.S. (2020) Factory-made or farm-fresh? Measuring U.S. support for aquaculture as food technology. *Marine Policy*. Vol 115 (103858)
- Horne, L.R., De-Urioste-Stone, S., Daigle, J and Noblet, C.L. (2018) Using Pile Sorts to Understand Perceptions of Climate Change. WIT Transactions on Ecology and the Environment, 227, 175-183.
- Teisl, M.F., Noblet, C.L., Corey, R.R. and Giudice, N.A. (2018) Seeing clearly in a virtual reality: Tourist reactions to an offshore wind project. *Energy Policy*, 122, 601-611.
- 34. Goff, S. H., & Noblet, C. L. (2018). Efficient, but immoral?: Assessing market attitudes as multidimensional. *Economics Letters*, *170*, 96-99.
- Rickard, L., C.L. Noblet, K. Duffy^{*} and W.C. Brayden^{*}. (2018) Cultivating benefit and risk: Aquaculture representation and interpretation in New England. *Society & Natural Resources*, 31(12), 1358-1378.

- Brayden ⁴, W.C., C.L. Noblet. K.S. Evans and L. Rickard. (2018) Assessing Consumer Preferences for Seafood Labels: Consumer Preferences for Seafood Attributes of Wild Harvested and Farm-Raised Products. *Aquaculture Economics and Management*, 22(3), 362-382
- 31. **Noblet, C.L.** and McCoy, S.K. (2018) Does one good turn deserve another? : Evidence of domain specific licensing in energy behavior. *Environment and Behavior*, 50 (8), 839-863

*Featured publication of September 2017 SCORAI Newsletter (Sustainable Consumption Research and Action Initiative)

- Goff^{*}, S.H., Waring, T.M. and C.L. Noblet (2017) Does Pricing Nature Reduce Support for Conservation?: Evidence from Donation Behavior in an Online Experiment. *Ecological Economics*, 141, 119-126
- 29. Huff^{*}, E. S., Leahy, J. E., Kittredge, D. B., **Noblet, C. L.**, & Weiskittel, A. R. (2017). Psychological distance of timber harvesting for private woodland owners. *Forest Policy and Economics*, *81*, 48-56.
- Klein, SJW and Noblet, CL (2017), Exploring Sustainable Energy Economics: Net Metering, Rate Designs and Consumer Behavior, *Current Sustainable/Renewable Energy Reports*, 4(2), 23-32(<u>Invited</u>). 1-10. DOI: 10.1007/s40518-017-0073-5
- Noblet, C.L., Evans, K.S., Fox^{*}, E.L., Bell, K.P., Kaminski^{*}, A. (2017). Public acceptance of coastal zone management efforts¹: The role of citizen preferences in allocation of funds. *Agricultural and Resource Economics Review*, 46(2), 268-295
- 26. Kaminski^{*}, A., Bell, K.P., **Noblet, C.L.**, and Evans, K.S. (2017) An Economic Evaluation of Coastal Beach Safety Information Seeking Behavior. *Agricultural and Resource Economics Review* 46(2), 365-387.
- 25. Anderson, M.W., Teisl, M.F. and **Noblet, C.L**. (2016) Whose Values Count: Is a Theory of Social Choice for Sustainability Science Possible? *Sustainability Science*. *11*(3), 373-383.
- 24. Teisl, M.F., Lando, A.M, Levy,A.S., **Noblet, C.L**. (2016). Importance of cohorts in analyzing trends in safe at-home food-handling practices. *Food Control*, 62 (381-389).
- Noblet, C.L., Teisl, M.F., Evans, K., Anderson, M.W., McCoy, S.K., and Cervone, E. (2015). Public Preferences for Investments in Renewable Energy Production and Energy Efficiency. *Energy Policy* 87 (December), 177-186
- 22. **Noblet, C.L.**, Anderson, M. W., and Teisl, M. F. (2015) Thinking Past, Thinking Future: An Empirical Test of the Effects of Retrospective Assessment on Future Preferences. *Ecological Economics* 114, 180-187.
- Silver, E. J.^{*}, Leahy, J. E., Noblet, C.L., & Weiskittel, A. R. (2015). Maine woodland owner perceptions of long rotation woody biomass harvesting and bioenergy. *Biomass and Bioenergy*, *76*, 69-78.

¹ First two authors (Noblet and Evans) agreed to equal contribution and credit.

- Silver, E.J.^{*}, Leahy, J.E., Kittredge, D.B., Noblet, C.L., Weiskittel, A.W. (2015). An evidence-based review of timber harvesting behavior among personal woodland owners. *Journal of Forestry* 113 (5). 490-499.
- 19. Huff (Silver), E.J^{*}, Leahy, J.E., Hiebeler, D., Weiskittel, A.R., and **Noblet, C.L**. (2015). An agent-based model of private forest owner management behavior using social interactions, information flow, and peer-to-peer networks. *PLoS ONE 10(11): e0142453.*
- 18. Teisl, M. F., McCoy, S., Marrinan, S^{*}, **Noblet, C.** L., Johnson, T., Wibberly, M^{*}, Roper, R. and & Klein, S. (2015). Will offshore energy face "fair winds and following seas"?: Understanding the factors influencing offshore wind acceptance. *Estuaries and Coasts, 38*(1), 279-286. Available online: http://link.springer.com/article/10.1007/s12237-014-9777-6

*Article was featured by the European Commission's Science for Environmental Policy European Commission DG Environment News Alert Service, edited by SCU, University of the West of England, Bristol.

- *17.* Anderson, M.W., M. F. Teisl, **C.L Noblet** and S. Klein. (2015). The Incompatibility of Benefit-Cost Analysis with Sustainability Science *Sustainability Science*, 10: 33-41 online: http://link.springer.com/article/10.1007/s11625-014-0266-4
- 16. Owen, D. and **Noblet, C.L.** (2014), Interdisciplinary Research and Environmental Law. *Ecology Law Quarterly*. Available at SSRN 2387860: <u>http://ssrn.com/abstract=2387860</u> (January 29, 2014)
- 15. **Noblet, C.L.**, Thøgersen, J. and Teisl, M.F. (2014). Who attempts to drive less in New England? *Transportation Research Part F: Psychology and Behaviour* 23C, pp. 69-80. doi: 10.1016/j.trf.2013.12.016
- 14. **Noblet, C.L.,** M.W. Anderson and L. Lindenfeld. (2013). Environmental Worldviews: A point of common contact, or barrier? *Sustainability*, 5, 4825-4842. doi:10.3390/su5114825. Available online at: <u>http://www.mdpi.com/2071-1050/5/11/4825</u>
- 13. **Noblet, C.L.,** Anderson, M.W., & Teisl, M. F. (2013). An empirical test of anchoring the NEP scale in environmental ethics. *Environmental Education Research*, 19(4), 540–551. doi:10.1080/13504622.2012.704899
- 12. **Noblet, C.L.,** M.F. Teisl, K. Hassett (Farrow)^{*} and J. Rubin. (2012). Biofuels development in Maine: Using trees to oil the wheels of sustainability. *Maine Policy Review*, 22(2): 56-65.
- 11. Anderson, M.W., Teisl, M. F. and **Noblet, C.L**. (2012). Giving Voice to the Future in Sustainability: Retrospective Assessment to Learn Prospective Stakeholder Engagement. *Ecological Economics* 84, 1-6.
- 10. Thøgersen, J. and **C. L. Noblet**. (2012). Does Green Consumerism increase the acceptance of windpower? *Energy Policy* 51, 854-862.
- 9. Siriwardena, S.^{*}, G. Hunt, M. F. Teisl, and **C. L. Noblet**. (2012). Effective environmental marketing of green cars: A nested-logit approach. *Transportation Research D* 17 (3): 237–242.

- Noblet, C.L. K.P. Bell, C. Colgan and M.F. Teisl. (2012) Economic Development and Maine's Sustainability Solutions Initiative. *Maine Policy Review* 21(1): 128-136. Available at: <u>http://mcspolicycenter.umaine.edu/reports-publications/maine-policy-review/mpr21-1/</u> <u>#Economic</u>
- 7. Anderson, M.W., **C.L. Noblet** and M. F. Teisl. (2012). Our environment: A glimpse at what Mainers value. *Maine Policy Review* 21(1): 104-111.
- 6. Fein, S.B., A.M. Lando, A.S. Levy, M. F. Teisl and **C.L. Noblet**. (2011). Trends in US consumers' safe handling and consumption of food and their risk perceptions 1988-2010 *Journal of Food Protection*, 74(9):1513–1523.
- 5. Teisl, M. F., M.W. Anderson, **C.L. Noblet**, George K. Criner, Jonathan Rubin and Timothy Dalton. (2010). Are Environmental Professors Unbalanced? Evidence from the Field *Journal of Environmental Education* 42 (2):67-83
- 4. Teisl, M. F., **C.L. Noblet**, and Jonathan Rubin. (2009). The Psychology of Eco-Consumption, *Journal of Agricultural & Food Industrial Organization*: 7(2), Article 9. Available at: http://www.bepress.com/jafio/vol7/iss2/art9
- 3. Teisl, M. F., **C.L. Noblet**, and Jonathan Rubin. (2009). Can Environmental Promotion Backfire? Evidence from the vehicle market. *Social Marketing Quarterly* 15 (3):2-32.
- Teisl, M. F., Jonathan Rubin and C.L. Noblet. (2008). Non-Dirty Dancing? Interactions Between Eco-labels and Consumers. *Journal of Economic Psychology*. 29(2):140-159
- *I.* **Noblet, C.L.,** M. F. Teisl and Jonathan Rubin. (2006). Factors affecting consumer assessment of eco-labeled vehicles. *Transportation Research D*, 11:422-431

Journal Articles, under review

- 1. Rickard, L., **Noblet, C.L**. and students. Family farms (not so) far away: Examining framing effects on support for aquaculture in Maine and the U.S.
- 2. Cotton, Benjamin^{*}, Noblet, C.L. Paying for Coastal Water Quality: What turns the tide?
- 3. **Noblet, C.L.,** Zimmerman^{*}, C., Shea^{*}, M. and K.S. Evans. Willingness to Contribute to Emerging Threats: The Role of Information and Payment Mechanisms on Support for Programs Addressing PFAS

Journal Articles, in preparation

- 1. Evans, K.S., **Noblet, C.L.**, Alvarez^{*}, N. Public Preferences for Marine Development in Shared Multi-use waters.
- 2. Carter, E.P, **Noblet, C.L.** and Zheng, Q. Consumer confidence in PFAS impacted food systems: what messages work?

Peer- Reviewed Chapters in Books/Monographs/Proceedings

- Horne, L.; De Urioste-Stone, S.; Daigle, J.; Noblet, C.; Rickard, L.; Kohtala, H.; Morgan, A. (2019) Climate change risk perceptions in nature-based tourism systems: A case study from Western Maine. Winter Tourism: Trends and Challenges. Pp. 73-81
- Noblet, C.L., Lando, A.M. and Teisl, M. F. (2015). <u>Health Communication: Advocacy</u> <u>Strategies, Effectiveness and Emerging Challenges</u>. Chapter 4: What are Health Care Providers Telling Pregnant Women about Fish Consumption, Listeria and Food Safety? ISBN: 978-1-63483-464-3
- C.L. Noblet and M. F. Teisl. (2015). <u>Eco-Labelling as Sustainable Consumption Policy</u>. *Handbook of Research on Sustainable Consumption* Edward Elgar Publishing; John Thøgersen and Lucia Reisch, editors. ISBN: 978 1 78347 126 3
- Hassett (Farrow)^{*}, K., M. F. Teisl, C.L. Noblet, S.K. McCoy and J. Rubin. (2010). Does Money Grow on Trees? People's Willingness to Pay for Cellulosic Wood Ethanol. Chapter in *Biofuel / Book 1* InTech Publishing.
- Teisl, M.F., J.Rubin and C.L. Noblet. (2006). Do Eco-Communication Strategies Reduce Energy Use and Emissions from Light Duty Vehicles? Proceedings of the U.S. EPA Market Mechanisms and Incentives Workshop: Applications to Environmental Policy, October 17-18.
- 6. Teisl, M.F., J.Rubin and C.L. Noblet. (2006). *Eco-information and the passenger vehicle consumer: Modelling the interaction and its impact on behaviour.* Proceedings of the Applied Environmental Economics Conference. Royal Society London. March 24.
- 7. Teisl, M.F., **C.L. Noblet** and J. Rubin. (2006). The design of an eco-marketing and labeling program for vehicles in Maine Chapter in *New Frontiers in Environmental and Social Labeling*. (Grote, Basu and Chau, eds.) pp. 11-36, Springer.

Research Reports and Technical Papers

- 1. **Noblet, C.L.** October 2023. 'Environmental Motivation: A driving force in decision making' *Applied Psychology Around the World*, Vol 5 Issue 3. 'Sustainable Consumption' <u>https://iaapsy.org/meetings/apaw/</u>
- Alvarez^{*}, N., Somes[§], W.L., Noblet, C.L., Evans, K.S., Britwum, K., and Teisl, M.F. Maine Marine Aquaculture Survey Results. School of Economic Staff Paper 641. October 2020. https://umaine.edu/soe/wp-content/uploads/sites/199/2020/12/2019-Maine-Marine-Aquac ulture-Survey-Results-Tech-Report.pdf
- 3. Murray[§], M., Anthony^{*}, J.R., **Noblet, C.L.** and L. Rickard (2017). National Aquaculture Survey Results. *Technical Report*. August 2017.
- Fox^{*}, E., Noblet, C.L., Bell, K.P., Anthony^{*}, R. Kaminski^{*}, A., Snell, M. and Hallowell[§], A. Maine and New Hampshire Coastal Resident Survey: Technical Report. *Technical Report*. School of Economics Staff Paper #627. January 2017.
- Noblet, C. L., Teisl, M.F., Kashkooli[§], M., Teisl, B[§]., Corey, R.R., Guidici, N.A. (2016). Potential Tourism Impacts of an Offshore Wind Farm Near Monhegan Island. *Technical Report*.

- Fox^{*}, E., Noblet, C.L., Bell, K.P., Kaminski^{*}, A., Snell, M. and Eslin[§], A. Maine and New Hampshire Coastal Resident Survey (Pilot) Technical Report. School of Economics Staff Paper #623. March 2016.
- Huff (Silver)^{*}, E.J., Leahy, J.E., Weiskittel, A.R., Kittredge, David B., Noblet, C.L. New insights on timber harvesting behavior of Maine family forest owners. *New England Society of American Foresters New Quarterly*. Volume 76, Issue 3. pg. 6-7. June 2015.
- 8. Kaminski^{*}, A., Bell, K. P., **Noblet, C.L**, Obamsawin[§], T., Fox^{*}, E., and M. Snell, Maine and New Hampshire Beach User Survey Response Report. *Technical Report*. April 2015.
- 9. Kaminski^{*}, A., Bell, K. P., Obamsawin[§], T., M. Snell, and **C.L. Noblet**. Beach Attributes in Maine and New Hampshire: Observations and Findings. *Technical Report*. April 2015.
- 10. C.L. Noblet and T.M. Gabe. (2013) Business Climate for Maine's Clean Technology Sector. School of Economics Staff Paper #607.
- Renault, C.S., Gabe, T.M. and Noblet, C.L. (2013). The Clean Technology Sector in Maine, 2013. Prepared for Maine Technology Institute, Cluster Initiative Program Award #144. August
- M. F. Teisl, C.L. Noblet, Andrew Knox[§] and Jonathan Rubin. 2009. Consumer Biofuel Knowledge and Preferences: Results of Focus Groups University of Maine, School of Economics Staff Paper # 580.
- 13. M. F. Teisl, J. Rubin and C.L. Noblet. 2008. *Environmental Marketing of Green Vehicles: Exploring Effective Design and Performance*. Final Report to the U.S. Environmental Protection Agency and the National Science foundation
- T. Gabe and C.L. Noblet. 2006. "Economic Profile of the Environmental and Energy Technology Sector in Maine." Department of Resource Economics and Policy, College of Natural Sciences and Forestry, University of Maine. *Department Staff Paper Series No.* 564. Orono, Maine.
- C. L. Noblet and T. Gabe. 2006. "Business Climate for Maine's Environment and Energy Technology Sector." Department of Resource Economics and Policy, College of Natural Sciences and Forestry, University of Maine. *Department Staff Paper Series No.* 565. Orono, Maine
- M. F. Teisl, B.Roe, C. L. Noblet, K.J. Boyle, N. E. Bockstael, A.S. Levy, G. Mumma, T. Riggs and M. Messonnier. 2007. *Can Survey-based Scenarios Measure Consumer Values for Improved Food Safety?* Final Report submitted to the National Center for Infectious Diseases, U.S. Centers for Disease Control and Prevention, Atlanta, GA.
- C. L. Noblet, G. M. Gould^{*}, J. Rubin, Daniel Innis, Charlie Morris. 2006. Sustainable Transportation Funding for Maine's Future included in: The Future of Transportation Funding in Maine: A Report to the Joint Standing Committee on Transportation 122nd Maine Legislature.
- K.Hunt, C.L. Noblet, T. Allen and L. Bragg. 2006. *Maine's Creative Economy: Connecting Creativity, Commerce and Community*. Margaret Chase Smith Policy Center Publication.

- M.F. Teisl, A. White-Cyr[§], J. Rubin, C. L. Noblet, 2005. Mainers' knowledge, practices and attitudes toward clean air, vehicle emissions and Maine's Clean Car Program. Department of Resource Economics and Policy Staff Paper # 551
- M. F. Teisl, J. Rubin, C. L. Noblet, L. Cayting, M. Morrill, T. Brown, and S. Jones. 2004. Designing Effective Environmental Labels for Passenger Vehicle Sales in Maine: Results of Focus Group Research. *Maine Agricultural Experiment Station Bulletin 434*.

Popular Publications

- Caroline L. Noblet, Mario F. Teisl, Katherine H. Farrow^{*} and Jonathan Rubin. 2013. Biofuels development in Maine: Using trees to oil the wheels of sustainability. Bangor Daily News. March 12, 2013. <u>http://bangordailynews.com/2013/03/12/opinion/biofuels-development-in-maine-using-tr</u> <u>ees-to-oil-the-wheels-of-sustainability/?ref=search</u>
- Mario F. Teisl, Caroline L. Noblet, and Shannon McCoy. 2011. Maine Voices: Offshore wind has role in Maine's future Maine Sunday Telegram. June 26. <u>http://www.pressherald.com/opinion/offshore-wind-has-role-in-maines-future_2011-06-2</u> <u>6.html</u>
- 3. Mario F. Teisl, Shan Huang, **Caroline L. Noblet**, Lisa Bragg, Catherine LaRochelle, Micheal Devanney, Jennifer L. Ward and Metin Cakir. 2004. Should School Districts Consolidate *Bangor Daily News*, April 5.

RESEARCH GRANTS AWARDED

- Community Benefits from Offshore Wind Development (UMaine subaward \$496,576) Investigators (Maine subaward): C.L Noblet (50%) and T. Johnson (50%) Sponsor: Department of Energy Project Dates: January 2024-January 2028
- Assessing Maine's Anglers Preferences for Fish Consumption (\$28,436) Investigators: Noblet (70%), Kopec (30%), Shea (graduate student) Sponsor: Maine Department of Inland Fish and Wildlife Project dates: September 2023- June 2026
- Assessing Maine Hunters Behavior in the time of PFAS (\$92,783) Investigators: Noblet (70%), Kopec (30%), Shea (graduate student) Sponsor: Maine Department of Inland Fish and Wildlife Project dates: November 2023- August 2025
- The role of state networks in advancing community-initiated and -engaged sustainable energy action in underserved communities (responsible: \$224,931; total: \$1,124,657) Investigators: Klein (80%), Noblet (20%) Sponsor: US Environmental Protection Agency Project dates: May 1 2023-April 30 2027
- Engaging with Low-Income and Disadvantaged Communities for State Climate Action Planning (\$555,745) Investigators: Hart (10%), Klein (30%), Noblet (20%), Silka (20%), Moore-Vissing (20%)

Sponsor: Maine Governor's Office for Policy, Innovation and the Future Project Dates: January 2024- December 2024

- 6. Investments in Maine Coastal Boat Launch Facilities (\$45,000) Investigators: Noblet (50%), Levesque (50%) Sponsor: Maine Department of Marine Resources, Coastal Program Project Dates: September 1, 2023 - June 30, 2024
- Interpreting the extent and characteristics of microplastics pollution in Maine freshwater streams to guide a holistic mitigation strategy(\$68,950) Investigators: Apul, Smith, Ross, Noblet (5%) Sponsor: US Dept of the Interior - Geological Survey Project dates: March 2022 - February 2023
- Does information about the economic contribution of Maine's aquaculture industry affect consumers' preferences for farmed oysters? (\$9,000) Investigators: Zheng, Noblet (50%) Sponsor: Internal - UMS Transforms Project dates: April 2022- May 2023
- Advancing natural resource-based strategies for rural community resilience (\$30,000) Investigators: Noblet and Bell (75%) Sponsor: Internal – University of Maine System Research Reinvestment Fund – Rural Health and Wellbeing Grand Challenge Grant Programs Project dates: (awaiting review results) June 2021-June 2022
- 10. Developing and Deploying a Risk framework for PFAS management in rural America: Connecting predictive models of PFAS contamination with risk perceptions to guide management decisions (\$507,394) Investigators: PI - Noblet (35%), Apul, Kopec, MacRae, Hart Sponsor: US Dept of the Interior - Geological Survey (104g) Project dates: December 2021-August 2024 Awarded: November 2021
- 11. One Health and the Environment (\$2,998,066) Investigators: Multiple Investigators led by M. Teisl (C. Noblet invited to join team post-award, 5%) Sponsor: National Science Foundation Project dates: 2019-2024 Awarded: January 2020
- 12. Do behavioral information interventions increase landowner enrollment in preferential forest property tax programs? (\$64,240)
 Investigators: Daigneault, Noblet (50%)
 Sponsor: US Dept of Agriculture-Forest Service
 Project dates: July 2021 June 2025
 Awarded: June 2021
- 13. Integrated Assessment of Alternative Management strategies for PFAS contaminated wastewater residuals (\$94, 258)
 Investigators: Kopec, Noblet (10%), Opul, MacRae Sponsor: USGS (104b)
 Project dates: March 2021-August 2022
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Awarded: March 2021

- 14. Expanding Maine's Blue Economy (total: \$400, 498)
 Investigators: Noblet (UMaine PI, 45%), Brayden (MAA), Evans, others
 Sponsor: US Dept of Commerce National Oceanic & Atmospheric Administration
 Project dates: January 2021 November 2024
 Awarded: December 2020
- 15. Disparate data integration and communication to support resilience in coastal Maine communities (\$49,916)

Investigators: J. Jansujwicz and eight others including Noblet Sponsor: George J. Mitchell Center for Sustainable Solutions Project dates: May 2018-May 2019 Awarded: May 2018

- 16. Acadia National Park as a Resiliency Tool for its Surrounding Community (\$23, 810) Investigators: Megan Bailey, Andrew Crawley and Caroline Noblet (10%) Sponsor: Friends of Acadia Project dates: January 2018-September 2018 Awarded: December 8, 2017
- 17. Communicating Climate Change for Maine's Tourism (\$45,000)
 Investigators: Caroline Noblet, Laura Rickard, Sandra DeUrioste-Stone
 Sponsor: George J. Mitchell Center for Sustainable Solutions
 Project Dates: June 2017-June 2018
 Awarded: May 2017
- 18. Automated Vehicles: Economics Incentives for Environmental Benefits and Safety (\$42,000)

Investigators: Jonathan Rubin and Caroline Noblet (50%) Sponsor: U.S. Department of Transportation, through Massachusetts Institute of Technology

Project dates: August 2016-2018

- Awarded: August 18, 2016 19. Recreation Impacts of Changing Shorelines (\$9,912) Investigators: Kathleen Bell and Caroline Noblet (50%) Sponsor: US Department of Commerce through ME Department of Agriculture, Forestry and Conservation Project dates: July - October 2016
 - Awarded: Summer 2016
- 20. The Nexus of Coastal Marine Social-Environmental Ecosytems and Sustainable Ecological Aquaculture (\$20,000,000)

Investigators: multiple investigators including Caroline Noblet as Theme co-leader (7%)

Sponsor: National Science Foundation – EPSCoR, Track 1 Program Project dates: 2014-2019

21. Understanding factors influencing sustainable behavior and natural resource decision making

Investigators: CL Noblet Sponsor: USDA National Institute of Food and Agriculture, 1003466 [Maine Agricultural and Forest Experiment Station ME021510 Project Dates: October 1, 2014-September 30, 2019

22. Community-Based Sustainable Energy Solutions (\$49,000) Investigators: Sharon Klein, Caroline Noblet, Cindy Isenhour Sponsor: George J. Mitchell Center for Sustainable Solutions Project Dates: June 2015-August 2016 23. Using Immersive Virtual Reality to Understanding the Impacts of Wind Energy Siting (\$58,455)

Investigators: Nicholas Giudice, Mario Teisl, Caroline Noblet Sponsor: Maine EPSoR and Maine Sustainability Solutions Initiative Project Dates: January 2014-August 2014

24. Understanding factors influencing response to natural resource valuation information (\$7,493)

Investigators: Caroline Noblet and Sandra Goff (Ph.D. student) Sponsor: University of Maine Rising Tide Center: Research Seed Program Project Dates: February 2014- Fall 2015

25. Collaborative Research: Strengthening the scientific basis for decision-making: Advancing sustainability science and knowledge-action capacities in coupled coastal systems (\$3,000,000)

Investigators: Laura Lindenfeld, Kathleen Bell, David Hart (C. Noblet invited to join team post-award, 5%)

Sponsor: National Science foundation, EPSCoR Track 2 Program Project Dates: September 2013-August 2016

26. Sustainable Energy Pathways – Integrated National Framework for Cellulosic Drop In Fuels (\$2,000,000)

Investigators: one of 12 (Noblet, 5%) Sponsor: National Science Foundation Project Dates: July 2012 to July 2016

- 27. Economic Impact of Maine's Clean Technology Sector (\$25,000) Investigators: Todd Gabe and Caroline Noblet (50%) Sponsor: Maine Technology Institute Project Dates: July 2012 to July 2013
- 28. Funding Impacts on the Maine Snowmobile Industry (\$5,000) Investigators: Stephen Reiling and Caroline Noblet (30%) Sponsor: Maine Snowmobile Association Project Dates: September 2010 to July 2011
- 29. The Center for Sustainability Solutions: Linking Research with Action to Shape Maine's Changing Landscape (\$20,000,000) Investigators: One of multiple investigators (Noblet, 5%). Sponsor: National Science Foundation-EPSCOR. (Track 1)
 - Project Dates: 2009-2014
- 30. Marketing New England Biofuels to Ensure Energy Security (\$101, 218) Investigators: Mario Teisl, Caroline Noblet (40%) and Jonathan Rubin Sponsor: US Department of Transportation through Cornell University Sungrant Project dates: July 2008 to July 2010
- 31. Saint John Valley Creative Economy Project (Phase 1: \$49, 680; Phase 2: \$49,992) Investigators: Kathryn Hunt and Caroline Noblet (20%) Sponsor: USDA Rural Business Opportunity Grants Project dates: October 2006-October 2007; October 2007-October 2008
- 32. Stonington Fisheries Industry Economic Impact (\$13,500) Investigators: Caroline Noblet (50%) and James Wilson Sponsor: Town of Stonington Project dates: March 2008 to September 2008
- 33. Cooperative Agreement to Study Consumer Demand for Food Safety Investigators: Mario Teisl, Brian Roe and Caroline Noblet Sponsor: Center for Disease Control and Prevention Project Dates: September 2006 – January 2010
- 34. Economic Impact of Non-Motorized Guide-Led Recreation in Maine (\$11,530) Investigators: Caroline Noblet (70%) and Todd Gabe Caroline L. Noblet

Sponsor: Maine Wilderness Society Project dates: May 2006 – September 2008

35. Supporting Innovation and Growth of the Environmental and Energy Technology Cluster (\$40, 198) Investigators: Caroline Noblet (50%) and Todd Gabe

Sponsor: Environmental Energy and Technology Council of Maine Project dates: April 2006 – April 2007

- 36. Sustainable Transportation Funding for Maine (\$25,298)

 Investigators: Charles Morris, Daniel Innis, Caroline Noblet (20%), Jonathan Rubin and Gregory Gould
 Sponsor: Maine Department of Transportation
 Project dates: September 2005 March 2006

 37. Coongrative Agreement Proposal to the Maine Arts Commission (\$15,000)
- 37. Cooperative Agreement Proposal to the Maine Arts Commission (\$15,000) Investigators: Kathryn Hunt and Caroline Noblet (25%) Sponsor: Maine Arts Commission Project dates: September 2005 – August 2007

RESEARCH GRANTS IN REVIEW

- Collaborative Research: Research Infrastructure: E-RISE RII: Enhancing Maine Forest Economy, Sustainability, and Technology (Maine-FOREST) Ecosystem To Accelerate Innovation (\$4,526,676) Investigators: Multiple; Noblet (1%) Sponsor: U.S. Department of the Interior Project dates: September 2024 – August 2025
- Guiding Sustainable Enhanced PFAS Drinking Water Treatment Options (\$80,0001) Investigators: Miller (70%), Apul (10%), MacRae (10%), Noblet (10%) Sponsor: U.S. Department of the Interior Project dates: September 2024 – August 2025

RECENT PRESENTATIONS, PANELS and POSTERS

Recent Invited Presentations

- Noblet, C.L., Zimmerman, C., Shea, M., Percival-Carter, E. and Zheng, Q. One Health and Impacts on Food Supply and Food Safety Thresholds: *Consumer Response to PFAS in Agriculture*. Michigan State University, Center for PFAS Research Annual Symposium- Current Knowledge and Applications for Agricultural Production. October 22-24, 2023.
- Noblet, C.L. "Environmental Motivation: A Driving Force behind Decision Making" in Applied Psychology of Sustainable Consumption: Contributions from Economic and Environmental Psychology (Webinar). International Association of Applied Psychology. October 25, 2023.

- 3. Noblet, C. L. Advancing Natural Resource Based Strategies for Rural Community Resilience. UMS Research & Innovation Speaker Series (state-wide forum). March 6, 2023. (available online at: <u>https://umaine.edu/research-development/ums-speaker-series/</u>)
- Noblet, C.L., Zheng, Q., Percival Carter, E. What's so special about Maine Food? Takeaways from theory & research around food choice with a focus on Maine products. Food for Thought 3-part series hosted by Portland Chamber of Commerce. Wednesday June 22, 2022. (available on <u>YouTube https://www.youtube.com/watch?v=gtGfNfAHt6U</u>)
- 5. **Noblet, C. L.** Interdisciplinary Research to address Water Resource Challenges: An example from Maine. NIWR Conference. February 8, 2022. Virtual. Conference agenda: https://ucanr.edu/sites/niwr2021/files/362614.pdf
- 6. **Noblet, C.L.** "Economic Information and Natural Resource Decision Making". University of Rhode Island Seminar Series. Kingston, Rhode Island. November 2019.
- 7. **Noblet, C.L. Maine** 'Can we understand how and why people use information to make behavior changes?' Maine Environmental Education Research Symposium. Belfast, Maine March 14, 2019.

Recent Invited Panel Participation

- Panel Session. Economic Research and Offshore Wind. Researching Socioeconomic Impacts on Offshore Wind in the Gulf of Maine Workshop. January 10-11, 2024. Portland, Maine (hybrid)
- 2. Panel Session. Forever Chemicals: A Pressing Justice and Policy Issue. Association of Environmental and Resource Economists. Annual Meeting. May 31-June 2, 2023. Portland, Maine

Recent Presentations and Posters (2018-2024)

- Noblet, C.L., Zimmerman, C., Evans, K.S. and Shea, M. Information Priming and Willingness to Pay for PFAS Mitigation in Maine. Association of Environmental and Resource Economists. Annual Meeting. May 31-June 2, 2023. Portland, Maine
- Cotton, B., Noblet, C. L., Bell, K.P. Paying for Coastal Water Quality: What Turns the Tide? Association of Environmental and Resource Economists Conference, Portland, ME, June 1st, 2023. *Poster*
- Wyatt, B., Noblet, C. L., Evans, K. Consumer Perceptions of the Sustainability of Marine Aquaculture. University of Maine Student Symposium, Orono, ME, April 14, 2023. *Poster*
- 4. Wyatt, B., Noblet, C. L., Evans, K. Consumer Perceptions of the Sustainability of Marine Aquaculture. Maine Water and Sustainability Conference, Augusta, ME, March 30, 2023. *Poster*
- 5. Shea, M., Noblet, C. L., Kopec, A. D. Landfills, an Overlooked Cost to the Global PFAS Crisis. Maine Sustainability & Water Conference, Augusta, ME, March 30, 2023. *Poster*.
- 6. Shea, M., Noblet, C. L., Kopec, A. D. Landfills, an Overlooked Cost to the Global PFAS Crisis. University of Maine Student Symposium, Orono, ME, April 14, 2023.

- Zimmerman, C. H., Noblet, C. L. Citizen Preferences for Addressing PFAS: Factors Affecting Willingness to Contribute. University of Maine Student Symposium, Orono, ME, April 14, 2023. Poster: Award: Winner of Social Science Category
- 8. Zimmerman, C. H., Noblet, C. L. Citizen Preferences for Addressing PFAS: Factors Affecting Willingness to Contribute. Maine Sustainability & Water Conference, Augusta, ME, March 30, 2023. *Poster: Award: Honorable Mention*.
- 9. Cotton, B., Noblet, C. L., Bell, K.P. Paying for Coastal Water Quality: What Turns the Tide? Maine Water and Sustainability Conference, Augusta, ME, March 30, 2023. *Poster*
- 10. A. Miller-Gonzalez. L. Rickard, C.L. Noblet, "Taking the risk: factors influencing citizen risk perception under beach and shellfish advisories and closures." Maine Sustainability and Water Conference. Augusta, ME, March 30, 2023. *Poster*:
- 11. Follansbee, K. C., Bell, K., and Noblet, C., Michaud, T., Daley, A. Exploring Agritourism as an Adaptation to Climate Change. Climate Change Institute- Borns Symposium, University of Maine, Orono, ME. April 7, 2023. Presentation.
- 12. Brayden, W.C., Noblet, C.L. and Evans, K.S. <u>Expanding Maine's Blue Economy: A</u> <u>quick update</u> Maine Aquaculture R&D&E Summit, Belfast Maine. January 27, 2023
- Zollitsch, B., Johnson, G., Ross, L., Smith, S., Noblet, C., Apul, O. Exploring the Relationship Between Stormwater and Microplastics Pollution. Maine Stormwater Conference, Holiday Inn by the Bay, Portland, Maine, November 2022.
- Noblet, C.L., Zimmerman, C. and Shea, M. Forever Chemicals that need right-now solutions: Citizen preferences for addressing PFAS. Northeastern Agricultural and Resource Economics Association, annual meeting. Mystic, CT. June 12-14, 2022. *Conference Presentation*
- Evans, K. S., Noblet, C.L. Aquaculture Siting Across Space: Do Mainers 'Sea' the Net Benefits? Northeastern Agricultural and Resource Economics Association, annual meeting. Mystic, CT. June 12-14, 2022. *Conference Presentation*
- Follansbee, K. C., Bell, K. P., Noblet, C. L., Daley, A., and T. Michaud. Baselines, Shoreline Change, and Beach Erosion Management Strategies. University of Maine Student Symposium, Orono, ME, April 15, 2022. *Poster*
- 17. Sarker, P.M., Daley, A., Noblet, C.L. Income and Food Insecurity within Households: Evidence from a Universal Income Transfer. UMaine Student Symposium, Orono, ME, April 2022. *Poster*
- Opul, A., Kopec, D., Noblet, C.L., <u>The Forever Chemicals: PFAS in Maine What They</u> <u>Are, Where They Come From, and What Can We Do About Them.</u> Senator George J. Mitchell Center for Sustainability Solution - Spring Sustainability talks. April 4, 2022.
 a. <u>This talk is available on YouTube</u>
- Zimmerman, C. H., Shea, M., and Noblet, C. L. Forever chemicals that need right-now solutions: Citizen preferences for Addressing PFAS. Maine Water and Sustainability Conference, Augusta, ME, March 31, 2022. *Conference Presentation*
- Follansbee, K. C., Bell, K., and Noblet, C. (2021, November 15). Baselines, Shoreline Change and Beach Management Solutions [Lightning Talk]. Mitchell Center Student Sustainability Lightning Talk, University of Maine, Orono, ME. <u>https://vimeo.com/646968518</u>
- 21. Miller-Gonzalez, A., Noblet, C.L. and Evans, K.S. (2021, November 15). Maine priorities for sustainable aquaculture expansion: Minimizing community conflicts to promote resilience in Maine seafood networks. Mitchell Center Student Sustainability

Lightning Talk, University of Maine, Orono, ME. Video available: <u>https://www.youtube.com/watch?v=NdmVny_FrYY</u>

- Kopec, D., Apul, O. MacRae, J. Noblet, C.L., and J. Peckenham. "PFAS? Yes, PFAS a serious problem in need of a sustainable solution". Maine Sustainability and Water Conference. (virtual). April 2, 2021.
- Feldman, D., Daley, A., Evans, K.S., Noblet, C.L. "Do Consumers with Risk Factors for Heart Disease Modify Their Consumption of High-Value Drugs When Other Care Becomes More Expensive?. 9th Annual Conference of the American Society of Health Economists. June 9, 2020.
- Alvarez, N., E. Brown, and C.L. Noblet, "Factors Affecting Perceptions of Aquaculture in Coastal Maine Communities" University of Maine Student Symposium. Bangor, Maine. April 10, 2019. Oral Presentation.
- Jones, C.B. and C.L. Noblet "Better Understanding Aquaculture: How Economic Information Impacts Citizen Sentiment" University of Maine Student Symposium. Bangor, Maine. April 10, 2019. *Poster*.
- Jones, C.B. and C.L. Noblet "Better Understanding Aquaculture: How Economic Information Impacts Citizen Sentiment" Maine Sustainability and Water Conference. Augusta, Maine. March 28, 2019. *Poster*.
- Alvarez, N., C.L. Noblet, E. Brown, and W. Somes, "Understanding Regional Differences in Residents' Concerns of Maine Aquaculture" Maine Sustainability and Water Conference. Augusta, Maine. March 29, 2019. *Poster*.
- Brown, E., C.L. Noblet, and N. Alvarez "The Impact of Knowledge on Perceptions of Aquaculture in Coastal Maine Communities." Maine Sustainability and Water Conference. Augusta, Maine. March 29, 2019. *Poster*.
- 29. Noblet, C.L., Rickard, L., Britwum, K. and Evans, K.S. More Farms on The Water? U.S Consumers' Perceptions of Aquaculture Practices and Products. Northeastern Agricultural and Resource Economics Association, pre-conference workshop. Philadelphia, PA. June 9-12, 2018. *Conference Presentation*

TEACHING, MENTORING AND ADVISEMENT

Recent Courses Taught

ECO 105 Environmental Policy introduces students (often first and second year) to key environmental policy concepts, through the lens of economics.

ECO 120 Principles of Microeconomics introduces students (often first and second year) to the principles of microeconomics. This course fulfills an important function for the University and the School of Economics. At the University level, it is a required course for programs as varied as School of Business to Ecology and Environmental Science. It is often the first opportunity many students have had to learn about the discipline of economics. Further, this course fulfills the University's general education requirement for "Social Contexts and Institutions" while not requiring a prerequisite. At the Department level, ECO 120 is a core course for all economics majors and is a key recruiting tool into the Economics major.

ECO 377 Environmental Economics introduces upper-level students from multiple majors (Economics, Wildlife, Forestry, etc.) to the concepts of Environmental Economics. Students in this course are generally studying natural sciences with management and policy implications, of which economics is a core component. Thus, this course provides students with skills applicable to their future careers which may not have been introduced in previous course work. The growth

in class size in the past five years may provide evidence of students' perceived value of this course (2013 n=45, 2014 n= 47, 2015 n= 57, 2016 n=62; F2017=65, F2018 projected 75).

ECO 404/504 Behavioral Economics provides an opportunity for undergraduate and graduate students to be exposed to the theories and applications of behavioral and experimental economics. The course was first offered in Spring 2016 as ECO 370 (undergraduate only) with only one economics course as a prerequisite, and therefore students in the course spanned from first year to graduating seniors; a majority were economics majors but students from Business were also represented. I was asked by the Department to develop this course because this sub discipline of economics has grown greatly in recent years, and has garnered much attention internationally from policy makers, the media and academics. An enrollment of almost 40 students for a pilot course demonstrates the interest in this subject area. Further, graduate students in our department requested a graduate version of this course and we were able to accommodate them by creating a 400/500 split for Fall 2017. I thus retooled the course and changed the prerequisites to allow for greater depth in the course.

ECO 403/503 Experimental Economics provides an opportunity for undergraduate and graduate students to be exposed to the theories and applications of behavioral and experimental economics. The course was first offered in Spring 2016 as ECO 370 (undergraduate only) with only one economics course as a prerequisite, and therefore students in the course spanned from first year to graduating seniors; a majority were economics majors but students from Business were also represented. I was asked by the Department to develop this course because this sub discipline of economics has grown greatly in recent years, and has garnered much attention internationally from policy makers, the media and academics. An enrollment of almost 40 students for a pilot course demonstrates the interest in this subject area. Further, graduate students in our department requested a graduate version of this course and we were able to accommodate them by creating a 400/500 split for Fall 2017. I thus retooled the course and changed the prerequisites to allow for greater depth in the course.

Graduate Students

Ph.D. (committee: 10, co-chair: 1)

Master's (committee: 48, chair: 18)

PROFESSIONAL SERVICE and ACTIVITIES

Professional memberships and activities:

Association Memberships

Association of Environmental and Resource Economists (AERE) Northeastern Agricultural and Resource Economics Association (NAREA) Society for Personality and Social Psychology (SPSP) International Association for Research in Economic Psychology (IAREP) Society for the Advancement of Behavioral Economics (SABE)

Committee Memberships/Offices held

 President, Northeast Agricultural and Resource Economics Association. 2021-2023
 Board of Directors, Northeast Agricultural and Resource Economics Association. 2018-2021

- **Chair**, Selected Papers and Symposia Committee for the 2018 annual meeting of the Northeast Agricultural and Resource Economics Association. 2017-2018
- Member, Career Advancement and Mentoring (CAM) Committee for the 2018, 2019, 2021 annual meeting of the Northeast Agricultural and Resource Economics Association, 2017-2021
- **Member**, Local organizing_Committee for the 2016 annual meeting of the Northeast Agricultural and Resource Economics Association, Bar Harbor, Maine. 2015-2016.
- **Member**, Selected Papers and Symposia Committee for the 2017 annual meeting of the Northeast Agricultural and Resource Economics Association. 2016-2017. –
- Session organizer (with CAM Mentoring class 2015-2016): ""The Truth is Out There: But how do we communicate it?", session on applying research to stakeholder needs for the 2016 Annual Meeting of the Northeastern Agricultural and Resource Economics Association
- **Reviewer**, Summer Conference Submission, Association of Environmental and Resource Economists (AERE), 2022.
- Panel organizer and Moderator, Summer Conference, Association of Environmental and Resource Economists - *Forever Chemicals: A Pressing Justice and Policy Issue* (AERE), 2023

Service in reviewing papers and grant proposals (number of reviews in parentheses).

Journal Articles Reviewed

Agribusiness: An International Journal Agricultural and Resources Economics Review (2). American Journal of Agricultural Economics (2) Archives of Scientific Psychology (1) Climate Change (3) Conservation Biology (2) Energy Policy (2) Energy Strategy Reviews (1)

Energy Research and Social Science (2) **Environmental Management** Ecological Economics (6) Environment and Behavior (2) Environmental and Resource Economics (EARE) (2) Environment Development Sustainability (1) Environmental Education Research (2) Journal of Environmental Psychology (3) Journal of Forest Economics, (1). Journal of Food Distribution Research (1) Journal of Human Nutrition and Dietetics (1) Maine Policy Review (5) Psychological Reports (2) SAGE Open Sustainability Sustainability Science (1) Sustainability: Science, Practice & Policy (1) Transportmetrica (1) Water (1)