

# Richard “Max” Melstrom

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## Experience

### **Loyola University Chicago**

Endowed Associate Professor, School of Environmental Sustainability, 2021–present.  
Endowed Assistant Professor, School of Environmental Sustainability, 2017–2021.

### **Oklahoma State University**

Assistant Professor, Department of Agricultural Economics, 2014–2017.

### **Salisbury University**

Assistant Professor, Department of Economics and Finance, Department of Environmental Studies, 2012–2014

### **Kalamazoo College**

Visiting Instructor, Department of Economics and Business, Winter and Spring 2012

### **Michigan State University**

Graduate Research Assistant, Department of Agricultural Economics, 2009–2012  
Graduate Student Instructor, Department of Economics, Summer 2011

## Education

### **Ph.D. Economics and Agricultural, Food and Resource Economics (dual major)**

Michigan State University, East Lansing, MI 2012

### **M.A. Economics**

Michigan State University, East Lansing, MI, 2008

### **B.A. Economics and Business**

Kalamazoo College, Kalamazoo, MI, 2007

### **General Course**

London School of Economics, London, UK, 2006

## Refereed Publications

55. Lancaster, N.A.,\* C.J. Reeling, J.G. Lee, R.T. Melstrom, J.N. Caudell and G. Albers. In press. Willingness-to-pay for rationed goods: Bobcat harvest permits in Indiana. *Journal of Agricultural and Applied Economics*.
54. Donnelly, E.S.,\* R.T. Melstrom and L. Chakraborti. In press. The economic benefits of remediation actions in the Waukegan Harbor Area of Concern. *Water Resources and Economics*.

53. Melstrom, R.T. and J. Hyink\*\*. In press. Economic benefits from restoration actions in coastal communities. *Water Economics and Policy. Named Editors' Choice Paper in 2023.*
52. Boehm, L.,\* L. Chakraborti, R.T. Melstrom, N. Piccolo\*\* and C. Reeling. In press. Measuring the Economic Value of Deer Hunting: Comparing Estimates from Survey and Harvest Check-in Data. *Human Dimensions of Wildlife.*
51. Abaidoo, E.,\* T. Malone and R.T. Melstrom. 2023. Fish demand in the U.S. Great Lakes region in the face of seafood mislabeling. *Aquaculture Economics and Management*, 27(4): 666-692.
50. Donnelly, E.\*\* and R.T. Melstrom. 2023. Residential mobility and the value of coastal water quality restoration. *Agricultural and Resource Economics Review*, 52(2): 250-272.
49. Melstrom, R.T., and T. Malone. 2023. Voter evaluations regarding the tradeoffs between agricultural production and water quality in Lake Erie. *Agricultural Water Management*, 287: 108449.
48. Wilkinson, R.\*\* and R.T. Melstrom. 2023. The effect of remediating PCB-contaminated sediments on home prices in Milwaukee, Wisconsin, USA. *Agricultural and Resource Economics Review*, 52(1): 71-88.
47. Schusler, T., A. Krings, and R.T. Melstrom. 2023. Experiences with environmental gentrification: Evidence from Chicago. *Landscape and Urban Planning*, 236: 104765.
46. Melstrom, R.T., M.A. Kaemingk, N.W. Cole, J.C. Whitehead, C.J. Chizinski, and K.L. Pope. 2023. Valuing angling on reservoirs using benefit transfer. *North American Journal of Fisheries Management*, 43: 400-416.
45. Melstrom, R.T. 2022. Residential demand for sediment remediation to restore water quality: Evidence from Milwaukee. *Journal of Environmental Economics and Management*, 116: 102731.
44. Melstrom, R.T. and R. Mohammadi\*\*, T. Schusler and A. Krings. 2022. Who benefits from brownfield cleanup and gentrification? Evidence from Chicago. *Urban Affairs Review*, 58(6): 1622-1651.
43. Melstrom, R.T. and R. Mohammadi\*\*. 2022. Measuring the effect of brownfield remediation on displacement in Chicago neighborhoods. *Land Economics*, 98(1): 72-77.
42. Smetana, K.\* , R.T. Melstrom and T. Malone. 2022. A meta-regression analysis of consumer willingness to pay for aquaculture products. *Journal of Agricultural and Applied Economics*, 1-16.
41. Staples, A.\* , D. Chambers, R.T. Melstrom and T. Malone. 2022. Regulatory restrictions across U.S. protein supply chains. *Journal of Agricultural and Applied Economics*, 54: 1-27.
40. Carlson, A.K., W.W. Taylor, D.R. DeVries, C.P. Ferreri, M.J. Fogarty, K.J. Hartman, D.M. Infante, M.T. Kinnison, S.A. Levin, R.T. Melstrom, R.M. Newman, M.L. Pinsky, D.I Rubenstein, S.M.P. Sullivan, P.A. Venturelli, M.J. Weber, M.R. Wuellner, and G.B. Zydlewski. 2022. U.S. perspective on the Ten Steps to Responsible Inland Fisheries. *Fisheries* 47(2): 68-77.

39. Melstrom, R.T., D.W. Shanafelt and C.J. Reeling. 2022. Coordinating investments in habitat management and economic development. *Journal of Bioeconomics*, 24: 67-91.
38. Melstrom, R.T. 2021. The effect of land use restrictions for endangered species on agricultural land values. *American Journal of Agricultural Economics*, 103: 162-184.
37. Melstrom, R.T. and A. Klis. 2021. Modeling dynamic adjustment in commercial fisheries. *Land Economics*, 97(3): 562-573.
36. Melstrom, R.T. and T. Welniak\*. 2020. The effect of site congestion on valuing freshwater fishing for urban residents. *Water Economics and Policy*, 6(4): 1950008.
35. Melstrom, R.T. and M. Kaefer\*\*. 2020. How diverse are preferences for urban fisheries? Evidence from a choice experiment. *Human Dimensions of Wildlife* 6: 503-516.
34. Malone, T. and R.T. Melstrom. 2020. Where’s the beef? Cattle producers’ response to endangered species regulations. *Food Policy* 91: 101814.
33. Wu, T.\*, S.R. Henneberry, J.N. Ng’ombe and R.T. Melstrom. 2020. Chinese demand for agritourism in rural America. *Sustainability* 12(7): 3052.
32. Klis, A. and R.T. Melstrom. 2020. Strategic behavior and dynamic externalities in commercial fisheries. *Ecological Economics* 169: 106503.
31. Melstrom, R.T., C. Reeling, L. Gupta, S.R. Miller, Y. Zhang and F. Lupi. 2019. Economic damages from a worst-case oil spill in the Straits of Mackinac. *Journal of Great Lakes Research* 45(6): 1130-1141.
30. Carlson, A.K., W.W. Taylor, M.T. Kinnison, S.M.P. Sullivan, M.J. Weber, R.T. Melstrom, P.A. Venturelli, M.R. Wuellner, R.M. Newman, K.J. Hartman, B.G. Zydlewski, D.R. DeVries, S.M. Gray, D.M. Infante, M.A. Pegg, R.M. Harrell and A.E. Todgham. 2019. Threats to freshwater fisheries in the United States: Perspectives and investments of state fisheries administrators and Agricultural Experiment Station directors. *Fisheries* 44(6): 276-287.
29. Melstrom, R.T. and L. Vasarhelyi\*\*. 2019. Modeling recreation demand and fees at national parks. *Annals of Tourism Research* 77: 175-178.
28. Reeling, C., L.H. Palm-Forster and R.T. Melstrom. 2019. Policy instruments and incentives for coordinated habitat conservation. *Environmental and Resource Economics*. 73(3): 791-813.
27. Melstrom, R.T. 2019. A note on the petroleum industry’s participation in conservation agreements for the lesser prairie chicken. *Agricultural and Resource Economics Review*, 48(1): 100-116.
26. Melstrom, R.T., K.R. Salau and D.W. Shanafelt. 2019. The optimal timing of reintroducing captive populations into the wild. *Ecological Economics*, 156: 174-184.
25. Lee, K.\* and R.T. Melstrom. 2018. Evidence of increased electricity influx following the Regional Greenhouse Gas Initiative. *Energy Economics* 76, 127-135.
24. Melstrom, R.T., K. Lee\* and J. Byl. 2018. Endangered species regulation and local employment: The case of the lesser prairie chicken. *Journal of Agricultural and Resource Economics* 43(3): 346-363.

23. Cha, W.\* and R.T. Melstrom. 2018. Catch-and-release regulations and paddlefish angler preferences. *Journal of Environmental Management* 214: 1-8.
22. Melstrom, R.T and C. Murphy\*. 2018. Do agritourism visitors care about landscapes? An examination with producer-level data. *Journal of Travel Research* 67(3): 360-369.
21. Melstrom, R.T. 2018. How do license prices affect participation in recreational fishing? Evidence from Pennsylvania. *Human Dimensions of Wildlife* 23(3): 273-283.
20. Boyer, T.A., R.T. Melstrom and L.D. Sanders. 2017. Effects of climate variation and water levels on reservoir recreation. *Lake and Reservoir Management* 33(3): 223-233.
19. Melstrom, R.T. 2017. Where to drill? The petroleum industry's response to an endangered species listing. *Energy Economics* 66: 320-327.
18. Daniels, B.\* and R.T. Melstrom. 2017. Examining recreation demand for lakeshore parks in Oklahoma: What is causing the downward trend in attendance? *Journal of Park and Recreation Administration* 35(2): 25-36.
17. Melstrom, R.T., D.H. Jayasekera\*, T.A. Boyer and C. Jager. 2017. Scale heterogeneity in recreationists' decision making: Evidence from a site choice model of sport fishing. *Journal of Outdoor Recreation and Tourism* 18: 81-87.
16. Wietelman, D.C.\*\* and R.T. Melstrom. 2017. The effect of listing the lesser prairie chicken as a threatened species on rural property values. *Journal of Environmental Management* 191: 155-161.
15. Melstrom, R.T. and D.H. Jayasekera\*. 2017. Two-stage estimation to control for unobservables in a recreation demand model with unvisited sites. *Land Economics* 93(2): 328-341.
14. Melstrom, R.T. 2017. Estimating a model of sportfishing trip expenditures using a quasi-maximum likelihood approach. *Tourism Economics* 23: 448-459.
13. Long, J.M. and R.T. Melstrom. 2016. Measuring the relationship between sportfishing trip expenditures and anglers' species preferences. *North American Journal of Fisheries Management* 36: 371-373.
12. Melstrom, R.T., L. Jones and J. Caviglia-Harris. 2016. Patterns of frontier development: A dynamic model of resource extraction in the Brazilian Amazon. *Environment and Development Economics* 21: 350-370.
11. Melstrom, R.T. 2015. Cyclical harvesting in a fishery with bycatch. *Resource and Energy Economics* 42: 1-15.
10. Caviglia-Harris, J. and R.T. Melstrom. 2015. Airing your dirty laundry: A quick marketable pollution permits game for the classroom. *Journal of Economic Education* 46: 412-419.
9. Melstrom, R.T., F. Lupi, P.C. Esselman and R.J. Stevenson. 2015. Valuing recreational fishing quality at rivers and streams. *Water Resources Research* 51: 140-150.
8. Melstrom, R.T. 2015. Valuing a historic site with multiple visitor types and missing survey data. *Journal of Cultural Heritage* 16: 102-105.

7. Melstrom, R.T. 2014. Managing apparent competition between the feral pigs and native foxes of Santa Cruz Island. *Ecological Economics* 107: 157-162.
6. Melstrom, R.T. 2014. Valuing historic battlefields: An application of the travel cost method to three American Civil War battlefields. *Journal of Cultural Economics* 28: 223-236.
5. Melstrom, R.T. and R.D. Horan. 2014. Interspecies management and land use strategies to protect endangered species. *Environmental and Resource Economics* 58: 199-218.
4. Melstrom, R.T. and F. Lupi. 2013. Valuing recreational fishing in the Great Lakes. *North American Journal of Fisheries Management* 33: 1184-1193.
3. Melstrom, R.T. and R.D. Horan. 2013. Managing excessive predation in a predator-endangered prey setting. *Ecological Economics* 90: 85-93.
2. Horan, R.D. and R.T. Melstrom. 2011. No sympathy for the devil. *Journal of Environmental Economics and Management* 62: 376-385.
1. Horan, R.D., E.P. Fenichel and R.T. Melstrom. 2011. Wildlife disease bioeconomics. *International Review of Environmental and Resource Economics* 5: 23-61.

\* and \*\* indicate graduate and undergraduate student author, respectively.

## Extension Publications

12. Falling, N., J. Nelson, M. Torres and R.T. Melstrom. 2022. Chicago Community Area Data, 1930-2010. *Loyola eCommons School of Environmental Sustainability Report*: ENV5-2022-01.
11. Hyink, J., R.T. Melstrom and T. Malone. 2021. Demand for Farm-Raised Fish in the Great Lakes Region – What Does Consumer Research Tell Us? Great Lakes Aquaculture Collaborative Report.
10. Hyink, J. and R.T. Melstrom. 2021. Summary of Aquaculture in the United States. *Loyola eCommons School of Environmental Sustainability Report*: ENV5-2021-01.
9. Melstrom, R.T. and C. Redding. 2020. Racial Inequality in Chicago: Income and Education. *Loyola eCommons School of Environmental Sustainability Report*: ENV5-2020-01.
8. Boyer, T.A., B. Daniels, R.T. Melstrom. 2016. Algal Blooms in Oklahoma: Lake Warnings. *Oklahoma Cooperative Extension Service Fact Sheet*: AGE1-1063.
7. Boyer, T.A., B. Daniels, R.T. Melstrom. 2016. Algal Blooms in Oklahoma: Economic Impacts. *Oklahoma Cooperative Extension Service Fact Sheet*: AGE1-1062.
6. Murphy, C., R.T. Melstrom, D. Shideler and J. Cummings. 2015. Agritourism in Oklahoma. *Oklahoma Cooperative Extension Service Fact Sheet*: AGE1-1058.
5. Melstrom, R.T., D.W. Shideler, W. Cha and C. Jager. 2015. Economic Analysis of Trout Fishing at Perry Lake, Oklahoma. Department Working Paper AE-15007.

4. Boyer, T.A., L.D. Sanders, R.T. Melstrom, A. Stoecker and S. Ferrell. 2015. Water-based Recreation in Oklahoma: Water Rights, Valuation and Implications for Public Policy, Economic Development and Management. *Oklahoma Cooperative Extension Service Fact Sheet: AGECE-1057*.
3. Boyer, T.A., L.D. Sanders, A. Stoecker, S. Ferrell and R.T. Melstrom. 2015. Municipal Water Conservation in Oklahoma: Background, Issues and Options. *Oklahoma Cooperative Extension Service Fact Sheet: AGECE-1055*.
2. Melstrom, R.T., D.H. Jayasekera, C. Jager and T.A. Boyer. 2015. The Economic Value of Sportfishing Trips to Oklahoma Lakes. *Oklahoma Cooperative Extension Service Fact Sheet: AGECE-1054*.
1. Murphy, C. and R.T. Melstrom. 2015. Know Your Customers: Oklahoma Agritourism Visitor Characteristics and Opinions about a New Liability Law. *Oklahoma Cooperative Extension Service Fact Sheet: AGECE-1053*.

## Other Publications

Melstrom, R.T., B. Jungers, X. Bi and J.K. Abbott. 2024. Resource Economics for Recreational Fishers and Fisheries. K.L. Pope, R. Arlinghaus, L.M. Hunt, A.J. Lynch, B.T. van Poorten (Ed). *Understanding Behaviours of Recreational Fishers - Disciplinary Perspectives for Interdisciplinary Approaches to Management*. Springer Nature.

Malone, T. and R.T. Melstrom. 2021. The Economics of United States Aquaculture special issue in *Choices*:

Abaidoo, E., T. Malone and R.T. Melstrom. 2021. The Growth of Imports in U.S. Seafood Markets. *Choices*, (4).

Staples, A.J., E. Abaidoo, L.N. Jescovitch, D. Chambers, R.T. Melstrom, and T. Malone. 2021. Regulatory Landscape of the U.S. Aquaculture Supply Chain *Choices*, (4).

Melstrom, R.T. 2021. Expanding Participation in Recreational Fishing through Multiple License Markets. K.L. Pope, L.A. Powell (Ed). *Harvest of Fish and Wildlife: New Paradigms for Sustainable Management*. Taylor and Francis.

Meadows, G., and 41 other authors. 2018. Independent Risk Analysis for the Straits Pipelines. A multi-organizational initiative led by Michigan Technological University for the State of Michigan-Project ID: 1801011.

## Papers in Progress

Melstrom, R.T. and C.J. Reeling. Measuring the nonmarket value of nature-based recreation using aggregate visitation data.

Neilsen, A. and R.T. Melstrom. The recreational value of bird species richness and sandhill crane abundance.

VanCeylon, J. and R.T. Melstrom. Greenway development and gentrification.

Donnelly, E. and R.T. Melstrom. The nonmarket value of a recreational fishery.

R.T. Melstrom. The effect of own and cross-congestion on park visitation.

## **Conference Presentations**

Using aggregate trip data to value recreation sites: A comparison with individual-level methods. Heartland Workshop, Urbana, IL, October 2023.

Using aggregate trip data to value recreation sites: A comparison with individual-level methods. AAEA Annual Meeting, Washington, D.C., July 2023.

Residential mobility and the value of coastal water quality restoration. AERE Annual Meeting, Portland, Maine, June 2023.

Using aggregate trip data to value recreation sites: A comparison with individual-level data methods. MEA Annual Meeting, Cleveland, Ohio, March/April 2023.

Measuring the economic value of fishing and hunting: A new method using trip counts. MFWA Annual Meeting, Overland Park, Kansas, February 2023.

Voter evaluations regarding the tradeoffs between water quality and food production. SAEA Annual Meeting, Oklahoma City, Oklahoma, February 2023.

Residential mobility and the value of coastal water quality restoration. NAREA workshop on Ecosystem Services Foundations for Resilient Communities: Agriculture, Land Use, Coasts and Energy for Human Well-Being, Mystic, Connecticut, June 2022.

Willingness to pay for water policies in the Great Lake. AERE Annual Meeting, Miami, Florida, June 2022.

Do water quality improvements in coastal communities affect geographic mobility? Evidence from the Great Lakes. MEA Annual Meeting, Minneapolis, Minnesota, March 2022.

What do we really know about consumer preferences for aquaculture products? AAEA Annual Meeting, Austin, Texas, August 2021.

The benefits of voluntary brownfield cleanup: Evidence from Chicago. AERE Annual Meeting (virtual), June 2021.

Measuring the effect of brownfield remediation on displacement in Chicago neighborhoods, AERE sessions at the ASSA Meetings (virtual), January 2021.

Estimating Dynamic Behavior in Commercial Fisheries. NAREA Annual Meeting (virtual), June 2020.

Measuring the Effect of Brownfield Remediation on Displacement in Chicago Neighborhoods. AERE Annual Meeting (virtual), June 2020.

The Effect of Land Use Restrictions Protecting Endangered Species on Agricultural Land Values, SEA Annual Meeting, Fort Lauderdale, Florida, November 2019.

Effects of regulations and pricing on participation in recreational fishing, American Fisheries

Society and The Wildlife Society joint annual meeting, Reno, Nevada, September 2019.

The Effect of Land Use Restrictions for Endangered Species on Agricultural Land Values, AAEA Annual Meeting, Atlanta, Georgia, July 2019. *Honorable Mention for Outstanding Poster Award in the Land, Water and Environmental Economics Section.*

The Effect of Land Use Restrictions Protecting Endangered Species on Agricultural Land Values, NAREA Workshop, Portsmouth, New Hampshire, June 2019.

The Effect of Land Use Restrictions Protecting Endangered Species on Agricultural Land Values, AERE Annual Meeting, Lake Tahoe, Nevada, May 2019.

The Effect of Site Congestion on the Demand for and Value of Urban Fishing Areas, MEA Annual Meeting, St. Louis, Missouri, March 2019.

Congestion Costs Matter in Valuing Recreational Fishing for Urban Residents, SAEA Annual Meeting, Birmingham, Alabama, February 2019.

Where’s the beef? Cattle Producers’ Response to Endangered Species Regulations, poster presentation at AAEA Annual Meeting, Washington, D.C., August 2018. *1<sup>st</sup> Place Outstanding Poster Award in the Land, Water and Environmental Economics Section.*

The Effect of Land Use Restrictions for Endangered Species on Agricultural Land Values, MEA Annual Meeting, Evanston, Illinois, March 2018.

Will the Petroleum Industry Participate in Habitat Conservation for Imperiled Species?, Pathways to Success: Integrating Human Dimensions into Fish and Wildlife Management Conference, Estes Park, Colorado, October 2017.

The Effect of License Prices and Senior Discounts on Fishing Participation, AFS Annual Meeting, Tampa, Florida, August 2017.

The Petroleum Industry’s Response to an Endangered Species Listing, AAEA Annual Meeting, Chicago, Illinois, July 2017.

The Petroleum Industry’s Response to an Endangered Species Listing, MEA Annual Meeting, Cincinnati, Ohio, April 2017.

The Placement of Oil and Gas Wells in Response to Environmental Litigation Risks, Southern Agricultural Economics Association Annual Meeting, Mobile, Alabama, February 2017.

Combining Actual and Stated Behavior Data to Measure the Economic Impacts of Catch and Release Regulations in a Vulnerable Recreational Fishery, AFS Annual Meeting, Kansas City, Missouri, August 2016.

The Effect of Endangered Species Regulations on Local Employment: Evidence from the Listing of the Lesser Prairie Chicken, AAEA Annual Meeting, Boston, Massachusetts, August 2016.

Two-Stage Estimation to Control for Unobservables in a Recreation Demand Model with Unvisited Sites, AAEA Annual Meeting, Boston, Massachusetts, August 2016.

Balancing Development and Habitat Conservation in Recovering Endangered Species, International Symposium on Society and Resource Management, Houghton, Michigan, June 2016.



The Effect of Endangered Species Regulations on Local Employment: Evidence from the Listing of the Lesser Prairie Chicken, MEA Annual Meeting, Evanston, Illinois, April 2016.

Valuing Aquatic Ecosystem Services: Applications to Recreational Fisheries in Oklahoma, Oklahoma Clean Lakes and Watersheds Annual Meeting, Stillwater, Oklahoma, March 2016.

Valuing Recreational Fisheries in Oklahoma, Oklahoma Natural Resources Conference, Oklahoma City, Oklahoma, February 2016.

The Effect of Endangered Species Regulations on Local Employment: Evidence from the Listing of the Lesser Prairie Chicken, Southern Agricultural Economics Association Annual Meeting, San Antonio, Texas, February 2016.

Measuring The Relationship Between Sportfishing Trip Expenditures and Anglers' Species Preferences, Midwest Fish and Wildlife Conference, Grand Rapids, Michigan, January 2016.

Is the Demand for Recreation at Grand Lake Affected by Swim Warnings and do Visitors Value Improvements in Water Conditions? Oklahoma Governor's Water Conference and Water Research Symposium, Norman, Oklahoma, December 2015.

Optimal Joint Extraction of Exhaustible and Renewable Resources Coupled by a Production Externality, SEA Annual Meeting, New Orleans, Louisiana, November 2015.

The Impact of Water Levels and Climate Variation on Recreation Demand at Ft. Cobb Reservoir, Oklahoma Clean Lakes and Watersheds Annual Meeting, Stillwater, Oklahoma, April 2015.

Managing the Impact of Exhaustible Resource Extraction on Ecosystem Service Values, MEA Annual Meeting, Minneapolis, Minnesota, March 2015.

Demonstrating Nonmarket Valuation Methods in the Classroom, SEA Annual Meeting, Atlanta, Georgia, November 2014.

Valuing Recreational Fishing Quality of Rivers and Streams, Pathways to Success: Integrating Human Dimensions into Fish and Wildlife Management Conference, Estes Park, Colorado, October 2014.

Interspecific Competition and Pests: Managing the Impact of Feral Pigs on the Foxes of Santa Cruz Island, BIOECON Annual Conference, Cambridge, United Kingdom, September 2014.

Optimal Management of a Multi-Species Fishery with Bycatch, AAEA Annual Meeting, Minneapolis, Minnesota, July 2014.

The Bioeconomics of Managing Bycatch in a Commercial-Recreational Fishery, MEA Annual Meeting, Evanston, Illinois, March 2014.

Escaping the Boom-Bust Pattern of Frontier Development: The Dynamics of Urban and Rural Migration under Resource Constraints, SEA Annual Meeting, Tampa, Florida, November 2013.

Using a Control Function to Resolve the Travel Cost Endogeneity Problem in Recreation Demand Models, poster presentation at AAEA Annual Meeting, Washington, D.C., August 2013.

Solutions to the Travel Cost Endogeneity Problem in Recreation Demand Models, MEA Annual

Meeting, Columbus, Ohio, March 2013.

Managing Excessive Predation in a Predator-Prey Setting: The Case of Piping Plovers, AAEA Annual Meeting, Seattle, Washington, August 2012.

Interspecies Management and Land Use Strategies to Protect Endangered Species, NAREA Annual Meeting, Lowell, Massachusetts, June 2012.

Protecting Endangered Prey: A Bioeconomic Model of Predator Harvests and Predator Exlosures, MEA Annual Meeting, Evanston, Illinois, March 2012.

A Bioeconomic Model of a Predator-Prey System with Predator Harvests and Predator Exlosures, MSU/UM/Wayne State Energy and Environmental Economics Day, Ann Arbor, Michigan, August 2011.

Santa Catalina Island Fox: Mitigation and Adaptation Strategies for Disease, Workshop of the Synthesizing and Predicting Infectious Disease while Accounting for Endogenous Risk (SPIDER) working group, Montreal, Canada, June 2010.

## **Seminar Presentations**

The effect of water quality improvements in Areas of Concern: Evidence from Milwaukee, University of Rhode Island, Department of Environmental and Natural Resource Economics, December 2021.

Dynamic Behavior in a Limited Access Commercial Fishery: Evidence from the Great Lakes, University of Wisconsin Milwaukee, School of Freshwater Sciences, May 2019.

The Effect of Land Use Restrictions for Endangered Species on Agricultural Land Values, Michigan State University, Department of Agricultural, Food and Resource Economics seminar, November 2018.

Estimating Economic Damages from a Great Lakes Oil Spill, University of Wisconsin Milwaukee, School of Freshwater Sciences, September 2018.

The Effect of Land Use Restrictions for Endangered Species on Agricultural Land Values, Northern Illinois University, Department of Economics Graduate Colloquium, April 2018.

The Petroleum Industry’s Response to an Endangered Species Listing, Oklahoma State University, Department of Natural Resource Ecology and Management, February 2017.

A Demand Model of Great Lakes Recreational Fishing Controlling for Omitted Site Characteristics, Michigan State University, Department of Economics Applied Economics Seminar, September 2011.

## **Grants**

Valuation of Nebraska’s Recreational Fisheries. \$65,104. Lead investigator. Nebraska Game and Parks Commission, 2023-2024.

The Economic Benefits of Water Quality Improvements in Great Lakes Areas of Concern, \$9,000.

Administrative co-lead with Emma Donnelly (primary investigator) and Lopa Chakraborti (administrative lead). Illinois-Indiana Sea Grant, 2022-2023.

Social Justice In Agricultural And Environmental Economics, \$30,150. Co-PI with Sarah Jacobson (lead investigator) and Angelino Viceisza and Miesha Williams. USDA National Institute of Food and Agriculture’s Agriculture and Food Research Initiative, 2019-2021.

An Integrated Economic Assessment of Outdoor Activities Related to White-Tailed Deer and Furbearer in Indiana, \$496,970 (Loyola share \$30,000). Co-investigator with Carson Reeling and Mo Zhou (co-lead investigators). Indiana Department of Natural Resources, 2019-2022.

Great Lakes Sea Grant Aquaculture Collaborative, \$1,026,820 (Loyola share \$138,748). Co-PI with John Downing (lead investigator), Trey Malone and Stuart Carlton. Sea Grant 2019 National Aquaculture Initiative, 2019-2022.

Advancing Local Marketing of Great Lakes Recreation and Fisheries Products, \$12,000. Lead investigator. Illinois-Indiana Sea Grant, 2019-2020.

Advancing Health Equity through Improved Environmental Quality without Displacing Residents in Communities Disproportionately Affected by Environmental Pollution, \$38,497. Co-PI with Tania Schusler (lead investigator) and Amy Krings. Loyola Health EQ Collaborative, 2019-2020.

Independent Risk Analysis for the Straits Pipelines, \$16,000. Section author with Guy Meadows (lead investigator) and others, State of Michigan, 2018.

Carrying Capacity of the Illinois River, \$52,000. Co-PI with Fatemeh Soltani (lead investigator), Tracy Boyer and Larry Sanders, Grand River Dam Authority, 2016-2017.

Agritourism in Rural America: A Case Study of Oklahoma as a Destination for Tourists from China, \$20,000. Co-PI with Shida Henneberry (lead investigator), Beijing FangNuoJinLong Conference Service Co., 2016-2017.

Policy Instruments, Strategic Interactions, and Incentives for Habitat Conservation for Imperiled Species, \$9,988. Co-investigator with Leah Palm-Forster (lead investigator) and Carson Reeling. CBEAR Junior Mini-Grant program, 2016-2017.

Economics of the Oklahoma Paddlefish Fishery, \$5,500. Lead investigator with co-PI Dave Shideler. Oklahoma Department of Wildlife Conservation, 2016-2017.

The Economic Impact of Lesser Prairie Chicken Protection in Oklahoma, \$69,000. Lead investigator with co-PI Dwayne Elmore, Oklahoma Department of Wildlife Conservation, 2015–2017.

Estimating Lake Amenity Values to Residential Homes on Grand Lake o’ the Cherokees, OK, \$83,000. Co-PI with Tracy Boyer (lead investigator), Dave Shideler and Art Stoecker, Grand River Dam Authority, 2015–2016.

Estimating Non-Market Value for the Grand River Watershed, \$150,000. Lead investigator with co-PIs Tracy Boyer and Art Stoecker, Grand River Dam Authority, 2015–2016.

The Demand for Agritourism in Oklahoma, \$12,000. Lead investigator with co-PI Bailey Norwood, Oklahoma Agricultural Experiment Station, 2014–2015.

Adapting Socio-Ecological Systems to Increased Climate Variability, Collaborator, National Science Foundation, Oklahoma EPSCoR, 2013–2018.

## Distinctions & Awards

Editor and Managing Editor, *Agricultural and Resource Economics Review*, 2019-2021.

Emerging Scholar Award, Southern Agricultural Economics Association, 2016.

Best Dissertation in the Agricultural, Food and Resource Economics Department, Michigan State University, 2012.

Environmental Science and Policy Fellowship, Michigan State University, 2007–2009.

Eugene P. Stermer Award in Public Administration, Kalamazoo College, 2007.

## Student Recognition

Advisor and research supervisor for Loyola 2023 Baum Undergraduate Research Award:

Nielsen, A. *Measuring the Recreational Value of Sandhill Cranes*, undergraduate thesis.

Piccolo, N. *Environmental Protection and Interstate Migration: The Economic Impact of Endangered Species Regulations on Residential Moves within Upper Midwest Counties*, undergraduate thesis.

Advisor and research supervisor for Loyola 2021 Provost Research Fellowship Award:

Hyink, J. *Changing Coastal Amenity Values and Residential Location: Evidence from the Great Lakes*, undergraduate thesis.

Advisor and research supervisor for Loyola 2019 Mulcahy Fellowship Award:

Kaefer, M. *Measuring the Demand for Alternative Bike Transportation Options*, undergraduate thesis.

Advisor and research supervisor for winner of the OSU College of Agricultural Sciences and Natural Resources 2016 Williams Outstanding Thesis award in the social science category:

Murphy, C. *Modeling Revenue and Visitation Patterns of Agritourism Operations in Oklahoma*, M.S. Thesis in International Agriculture

## Professional Activities

### Loyola University Chicago Service:

Faculty search committee chair, 2020, 2021, 2022

Faculty search committee member, 2020, 2021

Undergraduate studies committee member, School of Environmental Sustainability, 2022-

Graduate studies committee member, School of Environmental Sustainability, 2020-2021

Academic Council, School of Environmental Sustainability, 2018-2021

Academic Technology Committee, 2018-2020

Faculty advisor, Marine Animal Advocates, 2017-2020

Awards committee, School of Environmental Sustainability, 2019-current

Seminar co-organizer, School of Environmental Sustainability, 2017-2018, 2019-2020

Developer of the Environmental Economics & Sustainability major, launched 2022

Co-developer of the Environmental Economics & Sustainability minor, launched 2019

**Oklahoma State University Service:**

Faculty Council, Division of Agricultural Sciences and Natural Resources, 2014–2017

Publicity Committee, Department of Agricultural Economics, 2015–2017

Seminar Committee, Department of Agricultural Economics, 2014–2017

Social Committee, Department of Agricultural Economics, 2014–2016

**Salisbury University Service:**

International Committee, 2013–2014

Faculty advisor, Environmental Student Association, 2012–2014

**Michigan State University Service:**

Spring Social Coordinator, 2010

Graduate Research Symposium Coordinator, Department of Agricultural, Food and Resource Economics, 2009

Seminar Committee, Department of Agricultural, Food and Resource Economics, 2008

**Service to the Profession:**

Reviewer for *Ecological Economics*, *Environmental and Resource Economics*, *Environmental Processes*, *Journal of Cultural Economics*, *Journal of Environmental Management*, *Journal of Wildlife Management*, *Oryx*, *Environments*, *Tourism Economics*, *Journal of Economic Behavior and Organization*, *Journal of the Association of Environmental and Resource Economists*, *Journal of Environmental Economics and Management*, *Journal of Contemporary Water Research and Education*, *Resource and Energy Economics*, *California Agriculture*, *International Review of Economics Education*, *Water Resources Research*, *Marine Resource Economics*, *Journal of Agricultural and Resource Economics*, *Energy Economics*, *Journal of Bioeconomics*, *Fish and Fisheries*, *Tourism Management*, *Climate Change*, *Fisheries*, *Wildlife Research*, *Choices*, *Journal of Great Lakes Research*, *Journal of Agricultural and Applied Economics*, *Lake and Reservoir Management* and *North American Journal of Fisheries Management*.

Guest editor of *Choices* special issue “The Economics of U.S. Aquaculture”

Secretary-Treasurer of the Land, Water and Environmental Economics (ENV) section of the AAEA, 2021-2024

Discussant at annual meeting of the Allied Social Science Associations (ASSA), 2018, 2021

Discussant at *Thresholds, Tipping Points and Random Events in Dynamic Economic Systems* workshop, Knoxville, Tennessee, 2015

Organizer and chair for session on ecosystem services valuation, Pathways Conference, Estes Park, Colorado, 2014

Discussant at BIOECON Conference, Cambridge, United Kingdom, 2014

Discussant at annual meeting of the Midwest Economics Association, 2012, 2013, 2014, 2015, 2016, 2017, 2018

Discussant at annual meeting of the Southern Economic Association, 2013, 2019

Session chair at annual meeting of the Midwest Economics Association, 2015

Session chair at annual meeting of the Southern Economic Association, 2015

Session moderator at annual meeting of Oklahoma Clean Lakes and Watersheds Association, 2016

AAEA annual meeting topic leader (Environmental and Nonmarket Valuation), 2017, 2018

## **Graduate Advising**

Cassandra Murphy, MS in International Agriculture (thesis advisor)

Brannon Daniels, MAg in Agricultural Economics (thesis committee member)

Susan Brand, MAg in Agricultural Economics (major advisor)

Kelyn Jacques, MS in Agricultural Economics (thesis committee member)

Wonkyu Cha, PhD in Agricultural Economics (thesis committee member)

Kangil Lee, PhD in Agricultural Economics (thesis advisor)

Kerri Smetana, MS in Environmental Science & Sustainability (thesis advisor)

Emma Donnelly, MS in Environmental Science & Sustainability (thesis advisor)

Sampson Hao, MS in Environmental Science & Sustainability (thesis committee member)

Luke Boehm, MS in Environmental Science & Sustainability (thesis advisor)

Emily Forsythe, MS in Agricultural Economics (thesis committee member)

Sarah Ulrichsen, PhD in Natural Resource Sciences (thesis committee member)

Farron Edmunds, MS in Environmental Science & Sustainability (independent research)

## **Undergraduate Research**

Derek Wietelman, Gregory Boudreaux, Leah Vasarhelyi, Kiera Grady, Christopher Hummel, Kevin Carroll, Gabriella Rodriguez, Megh Soni, Matt Kaefer, Maris Yurdana, Rose Mohamadi, Kevin White, Luke Schmidt, Jillian Hyink, Cassidy Redding, Camille Braswell, Robin Wilkinson, Joanna Szeremeta, Luke Boehm, Nicolina Piccolo, Marceline Azem, Alex Nielsen.

## **Teaching**

### **Loyola University Chicago as instructor-of-record:**

Ecological Economics; Food Systems Analysis; Conservation Economics; Natural Resource Economics; Sustainable Systems - Social Perspectives; Food Behavior & Economics (First Year Research Experience); Food Security & Policy (First Year Research Experience); Food Economics

### **Oklahoma State University University as guest lecturer:**

Natural Resource Economics; Issues in Agricultural Policy; Economics of Natural and Environmental Resource Policy; Advanced Applications of Mathematical Programming

### **Salisbury University as instructor-of-record:**

Microeconomic Principles; Intermediate Micro-Theory; Principles of Environmental Economics; Contemporary Environmental Issues

### **Kalamazoo College as instructor-of-record:**

Principles of Natural Resource Economics; Economic History of Latin America

### **Michigan State University as instructor-of-record:**

Taxes, Government Spending and Public Policy