

JORGE HOLZER

Department of Agricultural and Resource Economics
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CURRENT AND RECENT APPOINTMENTS

Associate Professor, Department of Agricultural and Resource Economics, University of Maryland, College Park, August 2019-present

Assistant Professor, Department of Agricultural and Resource Economics, University of Maryland, College Park, August 2013-July 2019

Fisheries Economist, Maryland Department of Natural Resources, June 2010 - August 2013

OTHER PROFESSIONAL ACTIVITIES

Member, Scientific and Statistical Committee, Mid-Atlantic Fishery Management Council, 2019-present

Vice-Chair, Committee on Economics and Social Sciences, Atlantic States Marine Fisheries Commission, 2017-present

Chair-invited member, Working Group on Economics, International Council for the Exploration of the Sea, 2018-present

EDUCATION

Ph.D., Agricultural and Resource Economics, University of Maryland, College Park, 2010

MBA, University of Oxford, 2000

M.S. (with Distinction), Industrial Engineering, Pontificia Universidad Católica de Chile, 1996

B.S., Industrial Engineering, Pontificia Universidad Católica de Chile, 1994

PUBLICATIONS

Thébaud, O, J.R. Nielsen, A. Motova, H. Curtis, F. Bastardie, G.E. Blomqvist, F. Daurès, L. Goti, J. Holzer, J. Innes, A. Muench, A. Murillas, R. Rosa, E. Thunberg, S. Villasante, J. Virtanen, S. Walso, S. Agnarson, D. Castilla Espino, R. Curtin, G. DePiper, R. Doering, H. Ellefsen, J.J. García del Hoyo, S. Gourguet, P. Greene, K.G. Hamon, A. Haynie, J.B. Kellner, S. Kuikka, B. LeGallic, C. Macher, R. Nielsen, R. Pallezo, J. Santiago Castro-Rial, K. Sys, K. H. Oostenbrugge, and Vastenhoud, B.M.J. “Integrating Economics into Fisheries Science and Advice: Progress, Needs and Future Opportunities.” Forthcoming *ICES Journal of Marine Science*.

Holzer, J. and K. McConnell. “The Ambiguity of Fishing for Fun.” Forthcoming *Journal of the Association of Environmental and Resource Economists*.

Holzer, J. and K. McConnell. “Extraction Rights Allocation with Liquidity Constraints.” *Resource and Energy Economics*, 2023, 71:101345.

Holzer, J. and L. Olson. “Precautionary Buffers and Stochastic Dependence in Environmental Policy.” *Journal of Environmental Economics and Management*, 2021, 106:1-18.

Holzer, J. and K. McConnell. “Welfare with Imperfect Foreknowledge: The Case of Risk Aversion.” *Land Economics*, 2020, 96(1):43-55.

Holzer, J. and K. Byler. “Deepwater Horizon Oceanic Fish Restoration Project: An Application of Market Mechanisms for Conservation.” *Marine Policy*, 2019, 108:1-9.

Holzer, J. and G. DePiper. “Intertemporal Quota Arbitrage in Multispecies Fisheries.” *Journal of Environmental Economics and Management*, 2019, 93:185-207.

Holzer, J. and Q. Qu. “Confidence of the Trembling Hand: Bayesian Learning with Data-Limited Fish Stocks.” *Natural Resource Modeling*, 2018, doi: 10.1111/nrm.12164.

- Holzer, J., G. DePiper, and D. Lipton. "Buybacks with Costly Participation." *Journal of Environmental Economics and Management*, 2017, 85:130-145.
- Holzer, J. and K. McConnell. "Risk Preferences and Compliance in Recreational Fisheries." *Journal of the Association of Environmental and Resource Economists*, 2017, 4(S1):1-35.
- Holzer, J. "Harvest Reporting, Timely Information and Incentives for Technology Adoption." *American Journal of Agricultural Economics*, 2017, 99(1):103-122.
- Holzer, J. and K. McConnell. "A Model of Access in the Absence of Markets." *The B.E. Journal of Theoretical Economics*, 2016, 16(1):367-388.
- Holzer, J. "Property Rights and Choice: The Case of the Fishery." *American Journal of Agricultural Economics*, 2015, 97(4):1175-1191.
- Holzer, J. and K. McConnell. "Harvest Allocation without Property Rights." *Journal of the Association of Environmental and Resource Economists*, 2014, 1(1):209-232.
- Holzer, J., D. Lipton, and O. François. "Rent-Seeking and Incentives for Compliance in the Commons." *American Journal of Agricultural Economics*, 2013, 95(1):117-130.

WORKING PAPERS

"Food and Fraud: On the *Codfather* and Harvest Mislabeleding", with Geret DePiper (revise and resubmit *RAND Journal of Economics*).

WORK IN PROGRESS

- "Who Pays for Fisheries Science? Research Set-Aside Programs and Quota Auctions", with Eleanor Bochenek and Douglas Lipton.
- "Catch it. Kill it. Eat it? The Invasive Blue Catfish in the Chesapeake Bay", with Lars Olson and Corbin Hilling.
- "Observability and Stakeholder Conflict in Marine Policy", with Elizabeth N. Brooks and Geret DePiper.
- "Climate-Induced Species Shifts and Catch Dependence in Recreational Fisheries", with Andrew Carr-Harris, Geret DePiper and Scott Steinback.

OTHER PUBLICATIONS

"La Transparència en la Captació de fons privats," *Revista Econòmica de Catalunya*, 2003, 47:94-103.

TEACHING

- AREC 200: "The Chesapeake Bay Ecosystem: Intersection of Science, Economics and Policy".
- AREC/ECON 785: "Advanced Economics of Natural Resources" (Ph.D Level).
- AREC 610: "Microeconomic Applications in Agricultural and Resource Markets" (Ph.D Level).
- First-Year Innovation & Research Experience (FIRE)- Sustainability Analytics, 2019.
- Guest lecture: "New Markets and Environmental Valuation Methods ", ENST 410 "Ecosystem Services: An Integrated Analysis", October 21st, 2014, October 27th, 2015 and October 25th, 2016.

CONTRACTS AND GRANTS

- Cooperative Institute for the North Atlantic Region (CINAR), \$169,000, "The effect of catch restrictions on recreational catch, through June 2014", Co PI.
- Maryland Department of Natural Resources - Fisheries Service, \$224,000, hiring of a fisheries economist and provision of policy advice on fisheries management issues, through August 2016, PI.

National Fish & Wildlife Foundation and NOAA Fisheries, \$22,500, “2017 Deepwater Horizon Oceanic Fish Restoration Project - Supporting a Healthier Gulf of Mexico: Compensation Design”, June 2016.

National Fish & Wildlife Foundation and NOAA Fisheries, \$6,000, “2018 Deepwater Horizon Oceanic Fish Restoration Project - Supporting a Healthier Gulf of Mexico: Compensation Design”, July 2017.

National Marine Fisheries Service, \$82,180, “Modeling recreational anglers’ responses to risky catch”, 2017, PI.

National Fish & Wildlife Foundation and NOAA Fisheries, \$8,500, “2019 Deepwater Horizon Oceanic Fish Restoration Project - Supporting a Healthier Gulf of Mexico: Compensation Design”, July 2018.

National Fish & Wildlife Foundation and NOAA Fisheries, \$11,112, “2020 Deepwater Horizon Oceanic Fish Restoration Project - Supporting a Healthier Gulf of Mexico: Compensation Design”, July 2019.

CONFERENCE PRESENTATIONS AND INVITED SEMINARS

“Observability and Stakeholder Conflict in Marine Policy” presented at the Association of Environmental and Resource Economists (AERE) 2021 Summer Conference, Webinar, June 4, 2021.

“Using Research Set-Aside Market Design to Inform Fisheries Management” presented at the North American Association of Fisheries Economists (NAAFE) Webinar Series, April 27, 2021.

“Food and Fraud: on the *Codfather* and Harvest Mislabeling” presented at the Association of Environmental and Resource Economists (AERE) 2019 Summer Conference, Lake Tahoe, June 30, 2019.

“Discrete Choice Models with Biased Beliefs: The Case of Risk Aversion” presented at the International Institute of Fisheries Economics and Trade (IIFET) 2018 Conference, Seattle, July 17, 2018.

“Intertemporal Quota Arbitrage in Multispecies Fisheries,” presented at the Yale School of Forestry & Environmental Studies, New Haven, April 18, 2018.

“Intertemporal Quota Arbitrage in Multispecies Fisheries,” presented at Department of Agricultural and Resource Economics, UC Davis, Davis, February 15, 2018.

“Intertemporal Quota Arbitrage in Multispecies Fisheries,” presented at Resources for the Future, Washington D.C., April 13, 2017.

“Confidence of the Trembling Hand: Bayesian Learning with Data-Poor Stocks,” presented at the North American Association of Fisheries Economists (NAAFE) 2017 Forum, La Paz, Mexico, March 23, 2017.

“A Model of Quota Arbitrage in Multispecies Fisheries,” presented at the Association of Environmental and Resource Economists (AERE) 2016 Summer Conference, Breckenridge, Colorado, June 10, 2016.

“Harvest Reporting, Uncertainty and the Value of Timely Information,” presented at the International Institute of Fisheries Economics and Trade (IIFET) 2014 Conference, Brisbane, Australia, July 8, 2014.

“Allocation without Property Rights,” Dept. of Economics, Universidad de Concepción, Concepción, Chile, August 2013.

“Revisiting Commercial-Recreational Sector Quota Allocations,” presented at the North American Association of Fisheries Economists (NAAFE) 2013 Forum, St. Petersburg, Florida, May 2013.

“Inferring Stock Migration Patterns from Landings Data and Profit Maximization,” presented at the North American Association of Fisheries Economists (NAAFE) 2013 Forum, St. Petersburg, Florida, May 2013.

“Maryland Blue Crab License Buybacks,” presented at the conference “Providing Environmental Services from Agriculture in a Budget-Constrained Environment,” Washington DC, April 2012.

“Temporary Transfers and Harvesting Efficiency in Maryland Fisheries,” presented at the North American Association of Fisheries Economists (NAAFE) 2011 Forum, Honolulu, Hawaii, May 2011.

RECENT AND ONGOING EXTENSION ACTIVITIES

“Auctions vs Bilateral Agreements: A Revenue Comparison Analysis”, presented at the “Research-Set-Aside (RSA) Program Workshop: Funding”, Mid-Atlantic Fishery Management Council, Webinar, August 31, 2021.

Co-chaired the Commissioner Workshop on Fisheries Socioeconomics at the Atlantic States Marine Fisheries Commission's 73rd Annual Meeting. Led the session on economics titled "Cost-benefit Analysis vs Impact Analysis in Fisheries Management", Mystic, CT, October 30, 2014.

"Allocation without Property Rights" presented at the NOAA Allocation Workshop, Seattle, WA, September 23-24, 2014.

Briefing to the Maryland Sport Fish Advisory Commission on the role of cost-benefit analysis in efficient harvest allocation decisions, Annapolis, MD, January 27, 2014.

"Maryland Striped Bass ITQ Implementation" presented to Maryland DNR's Estuarine and Marine Fisheries Program, Annapolis, MD, November, 2013.

"Property Rights, Allocation and Choice: The Case of Maryland Striped Bass" poster presented at the 2014 UME Conference, Annapolis, MD, March, 2014.

"The Economic Impact of Maryland's Commercial Fishing Industry," presented at the Maryland Watermen's Symposium (organized by the Comptroller of Maryland), Wye Mills, MD, April, 2013.

"Cost Recovery Analysis 2012," led to adoption in Maryland of House Bill 1372 in April of 2013.

Member, task force in charge of review of Maryland Striped Bass Fisheries Management Plan (FMP), April-November, 2013.

Vice-Chair, Atlantic States Marine Fisheries Commission (ASMFC)'s Committee on Economics and Social Sciences (CESS).

Chair-invited member, International Council for the Exploration of the Sea (ICES), Working Group on Recreational Fisheries Surveys (WGRFS).

Chair-invited member, International Council for the Exploration of the Sea (ICES), Working Group on Economics (WGECON).

Member, Chesapeake Bay Program Sustainable Fisheries Goal Implementation Team (GIT).

Member (by invitation), Maryland DNR Chesapeake and Coastal Service's Advisory Committee.

Member, Invasive Catfish Workgroup.

REFEREE SERVICE

American Economic Journal: Microeconomics, American Journal of Agricultural Economics, Canadian Journal of Economics, Climatic Change, Economic Inquiry, Environmental and Resource Economics, Land Economics, International Economic Review, Journal of the Association of Environmental and Resource Economists, Journal of Environmental Economics and Management, Marine Policy, Marine Resource Economics, North American Journal of Fisheries Management, Proceedings of the National Academy of Sciences

REVIEW ACTIVITIES FOR AGENCIES

Expert Panel Review of Recreational Fishery Models, Mid-Atlantic Fishery Management Council, virtual, September 2021 (by invitation).

Expert Panel Review of the Summer Flounder Allocation Study, Mid-Atlantic Fishery Management Council, Baltimore, November 2016 (by invitation).

Review of study "Economic Impact Analysis of Critical Habitat Designation for the Gulf of Maine, New York Bight, and Chesapeake Bay Distinct Population Segments of Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*)", for NOAA Fisheries, January 2015 (by invitation).

Review of FY15 Marine Fisheries Initiative (MARFIN) proposals for NOAA-National Marine Fisheries Service, December 2014.

Expert Panel Review of the Scup Allocation Study, Mid-Atlantic Fishery Management Council, Baltimore, August 2013 (by invitation).

OTHER INFORMATION

Affiliations: American Economic Association (AEA), Association of Environmental and Resource Economists (AERE), Agricultural & Applied Economics Association (AAEA), International Institute for Fisheries Economics and Trade (IIFET).

Languages: English (fluent), Spanish (native), French (intermediate), German (elementary)

Citizenship: Chile, Germany, U.S. Permanent Resident