

Andrew Steinkruger

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EDUCATION

Master of Environmental Science and Management (June 2019)

University of California, Santa Barbara (UCSB)

- Thesis Project: “Fishery Management and Offshore Cultivation for *Totoaba Macdonaldi*”
- Primary Specialization: Coastal and Marine Resource Management
- Secondary Specialization: Economics and Politics of the Environment
- Focus: Environmental Data Science
- Leadership: Bren Seminars Committee
- Selected Coursework: Advanced Fisheries Models and Assessment, Cost-Benefit Analysis and Nonmarket Valuation, Econometrics, Methods for Social-Ecological Systems Analysis: Small-Scale Fisheries and Climate Change, Natural Resource Economics and Policy

Bachelor of Arts, Economics; Bachelor of Arts, Spanish; Minor, Music (December 2016)

University of Alaska, Anchorage (UAA)

- Study Abroad: Pontificia Universidad Católica de Chile, Universidad de Chile (2016)
- Award: Policy Research Award, Institute of Social and Economic Research (2015)

EXPERIENCE

Pacific States Marine Fisheries Commission *in support of*

NOAA Fisheries, Alaska Fisheries Science Center – Juneau, Alaska

Climate and Communities Social Scientist (December 2020–Present)

- Supported a series of nine virtual and in-person focus groups in fishing communities.
- Iterated on existing and novel processing techniques for large, trip-level fisheries data.
- Applied quantitative methods including network analysis, duration analysis, and content analysis.
- Advanced six manuscripts on climate change social science to peer review.
- Developed narrative and visual content for public-facing science communication products.

VALUABLES Consortium, Resources for the Future – Washington, District of Columbia

Research Analyst (August 2019–November 2020)

- Built simulation model to project impacts of conservation policy on marine shipping.
- Synthesized data, and methods for marine mammal ecology and marine logistics.

Bren School of Environmental Science & Management, UCSB – Santa Barbara, California

Research Assistant (June 2019–August 2019)

- Advanced Master’s thesis into manuscript for peer review.
- Synthesized literature, policy, data, and statistical methods for stock assessment.

Continued

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EXPERIENCE (Continued)

Bren School of Environmental Science & Management, UCSB – Santa Barbara, California

Research Assistant (December 2018–June 2019)

- Developed methods and results for peer-reviewed book chapter.
- Built numerical simulation model for social-ecological outcomes of fishery policy.

Resources for the Future – Washington, District of Columbia

Seafood Fraud Intern (June–August 2018)

- Supported manuscripts on social and environmental impacts of seafood mislabeling.
- Contributed data entry and QA/QC for database on global seafood trade and governance.

Environmental Studies Program, UCSB – Santa Barbara, California

Teaching Assistant, Introduction to Environmental Economics (September–December 2017)

- Developed materials for lectures, problem sets, keys, and review sessions; graded materials.
- Led weekly discussion sections for over 60 undergraduate students.

NOAA National Sea Grant Office – Silver Spring, Maryland

Pathways Support Intern (July–September 2017)

- Validated project records across federal grantmaking databases.
- Presented validation outcomes for 33 grantee programs.

Northern Economics, Inc. – Anchorage, Alaska

Temporary Analyst (September–December 2015)

- Compiled community-level data from interviews and databases for wide-ranging research needs.
- Developed and updated community-level population forecasts and economic impact analyses.

Department of Economics, UAA – Anchorage, Alaska

Teaching Assistant (September 2014–May 2015, September–December 2015)

- Supported experimental economics laboratory sessions and data processing.
- Prepared course materials and graded coursework.

Research Assistant (May–August 2015)

- Developed surveys on fisheries participation for in-person interviews and online distribution.
- Interviewed over 80 sport fishery participants in communities along the Kenai River.

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PUBLICATIONS

- Szymkowiak, M., **Steinkruger, A.**, & Furman, K. (2023). Integrating climate adaptation into Gulf of Alaska fishing community planning. *Marine Policy*, 156, 105802.
- Steinkruger, A.**, & Szymkowiak, M. (2023). Examining the evolution of access to Alaska's halibut IFQ fishery. *Ocean & Coastal Management*, 242, 106706.
- Szymkowiak, M., & **Steinkruger, A.** (2023). Alaska fishers attest to climate change impacts in discourse on resource management under marine heatwaves. *Environmental Science & Policy*, 140, 261-270.
- Szymkowiak, M., **Steinkruger, A.**, Rhodes-Reese, M., & Lew, D. K. (2022). Upward mobility in Alaska fisheries: A case study of permit acquisition for crewmembers. *Ocean & Coastal Management*, 228, 106327.
- Bernknopf, R. L., **Steinkruger, A.**, & Kuwayama, Y. Earth Observations Can Enable Cost-Effective Conservation of Eastern North Pacific Blue Whales: A Value of Information Analysis. Working Paper. Resources for the Future.
- Kroetz, K., Luque, G. M., Gephart, J. A., Jardine, S. L., Lee, P., Chicojay Moore, K., Cole, C., **Steinkruger, A.**, & Donlan, C. J. (2020). Consequences of seafood mislabeling for marine populations and fisheries management. *Proceedings of the National Academy of Sciences*, 117(48), 30318-30323.
- Cisneros-Mata, M., **Steinkruger, A.**, & Aceves-Bueno, E. (2020). Modelo poblacional de totoaba. In M. Cisneros-Mata (Ed.), *Evaluación de la población de Totoaba macdonaldi*. Ciudad de México: Instituto Nacional de Pesca.
- Trachtman, H., **Steinkruger, A.**, Wood, M., Wooster, A., Andreoni, J., Murphy, J. J., & Rao, J. M. (2015). Fair weather avoidance: unpacking the costs and benefits of “Avoiding the Ask.” *Journal of the Economic Science Association*, 1(1), 8-14.

MANUSCRIPTS IN PROGRESS

- Steinkruger, A.** & Szymkowiak, M. Connectivity and resilience in networks of seafood processors. [In preparation.]
- Szymkowiak, M. & **Steinkruger, A.** Responses and resilience to climate change in Gulf of Alaska fishing communities. [In preparation.]
- Szymkowiak, M. & **Steinkruger, A.** Climate change attribution and salience for fishermen in the Gulf of Alaska. [Submitted for peer review.]
- Szymkowiak, M., **Steinkruger, A.**, & Hayes, A.L. Alaska's emergent fisheries process. [Submitted for peer review.]
- Lawson, J. M., Jean, S., **Steinkruger, A.**, Castellanos-Rico, M., Goto, G.M., Cisneros-Mata, M.A., Aceves-Bueno, E., Warham, M.W., Sachs, A.M., & Gaines, S.D. Substantial gains and little downside from farming of *Totoaba macdonaldi*. [Submitted for peer review.]

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PRESENTATIONS

Steinkruger, A., & Szymkowiak, M. (2023, May). *Examining the evolution of access to Alaska's halibut IFQ fishery*. North American Association of Fisheries Economists Forum. Woods Hole, MA, United States.

Szymkowiak, M., **Steinkruger, A.**, Rhodes-Reese, M., & Lew, D. K. (2022, July). *Upward mobility in Alaska fisheries: A case study of permit acquisition for crewmembers*. Fourth ICES PICES Early Career Scientist Conference. St. John's, NL, Canada.

Bernknopf, R., **Steinkruger, A.**, & Kuwayama, Y. (2020, December). *Earth Observations Enable Cost-Effective Conservation of Eastern North Pacific Blue Whales*. American Geophysical Union Fall Meeting. Virtual.

Bernknopf, R.L., **Steinkruger, A.**, & Kuwayama, Y. (2019, October). *Remote Sensing for Blue Whale Conservation*. VALUABLES Consortium Annual Workshop. Washington, DC, United States.

Castellanos, M., Goto, G., Sachs, A., **Steinkruger, A.**, & Warham, M. (2019, September). *Conservation Benefits of Commercial Aquaculture for an Endangered Species*. Joint American Fisheries Society-Wildlife Society Conference. Reno, NV, United States.

Castellanos, M., Goto, G., Sachs, A., **Steinkruger, A.**, & Warham, M. (2019, April and June). *Conservation Opportunities in Commercial Aquaculture: The Case for Farming Totoaba*. UCSB Grad Slam and QAD Mini Grad Slam. Santa Barbara, CA, United States.

Steinkruger, A., Kroetz, K., Donlan, C. J., Gephart, J. A., Lee, P., & Chicojay Moore, K. (2019, May). *Seafood Traceability Program Performance: Evaluating the U.S. Seafood Import Monitoring Program*. North American Association of Fisheries Economists Forum. Halifax, NS, Canada.

SKILLS

Language: Spanish, limited working proficiency

General Software: Git, Microsoft Office

Programming Languages and Analytical Software:

- Advanced: R
- Intermediate: ArcGIS, MAXQDA, QGIS, SQL (Oracle, SQLite), Stata
- Basic: Julia, MATLAB, Python