# Jonathan R. Sweeney

NOAA Pacific Islands Fisheries Science Center
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## EDUCATION

| | |
|---|---|
| 2018 | Ph.D. in Economics, University of Hawai`i at Mānoa |
| 2015 | M.A. in Economics, University of Hawai`i at Mānoa |
| 2008 | B.A. Biology, Reed College |

## PROFESSIONAL APPOINTMENTS

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| 2020- | Research Economist, NOAA Pacific Islands Fisheries Science Center |
| 2018-2019 | Postdoctoral Scholar, University of California Santa Cruz and NOAA Southwest fisheries Science Center |

## PEER-REVIEWED PUBLICATIONS

Smith, J.A., D. Tommasi, H. Welch, E. Hazen, **J.R. Sweeney**, S. Brodie, B. Muhling, S. Stohs, M.G. Jacox (2021), Comparing dynamic and static time-area closures for bycatch mitigation: A management strategy evaluation of a swordfish fishery, *Frontiers in Marine Science*, doi: https://doi.org/10.3389/fmars.2021.630607

**Sweeney, J.R.** (2021), Catch rate composition affects assessment of protected area impacts, *Nature Communications*, doi:https://doi.org/10.1038/s41467-021-21607-4

Smith, J.A., B. Muhling, **J.R. Sweeney**, D. Tommasi, M. Pozo Buil, J. Fiechter, M.G. Jacox (2021), The potential impact of a shifting Pacific sardine distribution on US West Coast landings, *Fisheries Oceanography*, doi:https://doi.org/10.1111/fog.12529

Smith, J.A., D. Tommasi**, J.R. Sweeney**, S. Brodie, H. Welch, E.L. Hazen, B. Muhling, S.M. Stohs, and M.G. Jacox (2020), Lost opportunity: Quantifying the dynamic economic impact of time-area fishery closures, *Journal of Applied Ecology*, doi:10.1111/1365-2664.13565.

**Sweeney, J.R.**, R.E. Howitt, H. Chan, M. Pan, P. Leung (2017), How do fishery policies affect Hawaii's longline fishing industry? Calibrating a positive mathematical programming model, *Natural Resource Modeling*, https://doi.org/10.1111/nrm.12127

Oberle, B., K. Ogle, J.C. Penagos Zuluaga, **J.R. Sweeney**, A.E. Zanne (2016), A Bayesian model for zylem vessel length accommodates subsampling and reveals skewed distributions in species that dominate seasonal habitats, *Journal of Plant Hydraulics*, 3 e003

Revell, L.J., D.L Mahler, **J.R. Sweeney**, M. Sobotka, V.E. Fancher, J.B. Losos (2012), Nonlinear selection and the evolution of variances and covariances for continuous characters in an anole, *Journal of Evolutionary Biology*, 23(2) 407-421.

## SUBMITTED MANUSCRIPTS

Tommasi, D., Y. deReynier, H. Townsend, C.J. Harvey, W.H. Satterthwaite, K.N. Marshall, I.C. Kaplan, S. Brodie, J.C. Field, E. Hazen, S. Koenigstein, J. Lindsay, K. Moore, B. Muhling, L. Pfeiffer, J. Smith, **J.R. Sweeney**, B. Wells, and M.G. Jacox. Connecting fisheries management challenges with models and analysis to support ecosystem-based management in the California Current ecosystem. (Under revision at *Frontiers in Marine Science*)

## AWARDS

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| 2020 | U.S. Department of Commerce Special Act Award |
| 2017 | Department of Economics Travel Award, University of Hawai`i at Mānoa |
| 2016 | Department of Economics Travel Award, University of Hawai`i at Mānoa |

## SERVICE

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| 2021- | Socioeconomics author, NOAA PIFSC Pacific Islands Regional Action Plan for Climate Science 2.0 |
| 2021- | PIFSC representative, National Ecosystem Modeling Workshop (NEMoW) |
| 2020- | Foci lead, NOAA PIFSC Bigeye Initiative |
| 2020- | Member, NOAA PIFSC DE&I Team |
| 2020 | Session co-chair, Ocean Sciences Meeting 2020 |
| 2019 | Co-organizer, National workshop on integrating economic considerations into management strategy evaluations. |
| 2018 | Co-coordinated Coastal Pelagic Species MSE stakeholder meeting.<br>Journal Reviewer: *Marine Policy* |

## TEACHING

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| Fall 2017 | Lecturer for Sustainable Development (ECON 350), University of Hawai`i at Mānoa |
| Fall 2013 | Teaching Assistant for Principles of Microeconomics with Dr. John Lynham, University of Hawai`i at Mānoa |

## ADVISING

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| 2020- | Sarah Medoff, University of Hawai`i at Mānoa |
| 2020- | Maya Ward, University of Hawai`i at Mānoa |
| 2018 | William Arlidge, University of Oxford |

## PRESENTATIONS

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| 2019 | IMBeR, Fitting a Hidden Markov Model to simulate how fishing behavior with respond to climate change. |
| 2019 | Highly Migratory Species Management Team Meeting, Developing finfish performance metrics for the CA drift gillnet fishery using regression tree methods. |
| 2019 | West Coast Regional Recovery Coordinator Meeting, Two ways economics can help fishery managers make hard decisions: Decision analysis and the value of information. |
| 2018 | UCSD Environment and Resource Group, What can fishing teach us about the factors that affect labor supply? |
| 2018 | Tuna Conference, Building economics into management strategy evaluation: A guide to setting sea turtle interaction limits. |
| 2018 | IIFET, Balancing goods and bads: A Bayesian analysis of fishery regulatory decisions |
| 2017 | Bergen Economics of Energy and Environment Research Conference, Multi-output production efficiency with rare undesirable outputs. |
| 2016 | IIFET, How to measure economic impacts with multiple interacting policies? |
| 2016 | WRSA, How do fishery policies affect Hawaii's longline fishery? |

## GRANTS RECEIVED

2020-2023 D. Tommasi, B. Muhling, I. Kaplan, S. Bograd, E. Hazen, M. Jacox, S. Koenigstein, S. Stohs, **J. Sweeney**. Impact of climate and ecosystem change on the California Current forage complex and the fishing communities and predators it sustains. *NOAA COCA*. $1,466,725

2020-2022 M. Conroy, S. Stohs, **J. Sweeney**. Feasibility and Design of a Live Fish Auction – using San Diego, CA as a Blueprint. *NOAA SK*. $104,073