

## Biographical Sketch: Chin-Hwa “Jenny” SUN, Ph.D.

### Personal

Senior Marine Resource Economist  
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### A. Education

National Chung-Hsing University, Applied Economics, B.S., 1987  
National Taiwan University, Agricultural Economics, M.S., 1989  
Cornell University, Agricultural, Resource, and Managerial Economics, Ph.D., 1994

### B. Appointments

2011 – present Senior Marine Resource Economist, Gulf of Maine Research Institute  
2013 - present Graduate Faculty of the Interdisciplinary Doctor of Philosophy, Univ. of Maine  
2012 - present Adjunct Associate Research Professor, School of Marine Sciences, Univ. of Maine  
2009-2011 Research Scholar, Inter-American Tropical Tuna Commission (IATTC), La Jolla, CA  
2008-2011 Visiting Scholar, Southwest Fishery Science Center, NOAA Fishery  
2008-2009 Visiting Professor, Dept. of Economics, Univ. of California, San Diego  
1994-2011 Associate Professor (1994-2000), Professor (2000-2011), Director (2003-2006), Institute of Applied Economics, National Taiwan Ocean University

### Publication

#### A. Refereed Papers

1. Kaiser, Harry M., Olan D. Forker, John Lenz, and **Chin-Hwa Sun**, 1993, Evaluating Generic Dairy Advertising Impacts on Retail, Wholesale and Farm Milk Markets. *Journal of Agricultural Economics Research*, 44(4): 3-17.
2. Liu, Donald J., **Chin-Hwa Sun**, and Harry M. Kaiser, 1995, Market Conduct under Government Price Intervention in the U.S. Dairy Industry, *Journal of Agricultural and Resource Economics*, 20(2): 301-315. Reprinted in *New Empirical Industrial Organization and the Food System*, Edited by Harry Kaiser and Nobuhiro Suzuki, 2006, Peter Lang Publishing, Inc, New York.
3. **Sun, Chin-Hwa**, Harry M. Kaiser, and Olan D. Forker, 1995, Analysis of Seasonal Milk Price Incentive Plans, *Review of Agricultural Economics*, 17(3): 383-393.
4. Chiang, Fu-Sung, **Chin-Hwa Sun**, and Cheng-Hui Wen, 1998, An Analysis of Recent Fisheries Compensation Cases in Taiwan and their Application, *Journal of Agricultural Economics*, 63: 41-79. (In Chinese)
5. **Sun, Chin-Hwa** and Fu-Sung Chiang, 1998, Evaluation of the Offshore Fisheries Compensation in Taichung County, *Taiwanese Agricultural Economic Review*, 4(1): 1-39. (In Chinese)
6. **Sun, Chin-Hwa** and Fu-Sung Chiang, 1998, The Problems and Challenges associated with World Trade Organization Accession faced by Taiwan's Fishing Industry, *Journal of Fisheries Society of Taiwan*, 25(2): 139-160.
7. **Sun, Chin-Hwa**, 1998, Optimal Number of Fishing Vessels for Taiwan's Offshore Fisheries - A Comparison of Different Fleet Size Reduction Policies, *Marine Resource Economics*, 13(4): 275-288.
8. **Sun, Chin-Hwa**, 1999, Analysis of the Market Structure and Price Cointegration of the Tuna Raw Material Markets for Tuna Canneries in the World, *Agriculture and Economics*, 22: 51-72. (In Chinese)
9. **Sun, Chin-Hwa**, Ching-Cheng Chang and Fu-Sung Chiang, 1999, Impact Evaluation of the APEC EVSL on the Fisheries Sector in Taiwan- An Application of the Fisheries Sector Equilibrium Model, *Academia Economic Papers*, 27(3): 359-383. (In Chinese)
10. Chiang, Fu-Sung and **Chin-Hwa Sun**, 1999, The Application of the Taiwan Fleet Dynamics Management System to Fishing Fleets and Fishery Resources, *Journal of Fisheries Society of Taiwan*, 26(2): 103-114.
11. **Sun, Chin-Hwa** and Wei-Tsung Wang, 1999, Forecasting Analysis of the Fresh Tuna Prices in Taiwan and the Import Prices in Japan: An Application of Vector ARMA Model, *Journal of Agricultural Economics*, 66: 49-84. (In Chinese)
12. **Sun, Chin-Hwa** and Fu-Sung Chiang, 1999, Fleet Dynamics Analysis of the Taiwan Offshore Trawl Fishery: An Application of the Sea Surface Temperature Measures, *Journal of Marine Science and Technology*, 7(2): 101-109.
13. Chiang, Fu-Sung, **Chin-Hwa Sun** and Jon-Hi Ko, 1999, Research and Recommendation on Dynamic Fishing Vessel Monitoring System in Taiwan, *Journal of Agriculture Finance*, 41: 331-348. (In Chinese)
14. **Sun, Chin-Hwa** and Ming-Chia Hsieh, 2000, Analysis of the Price Response of Taiwan Tuna Purse Seine Fishery in the Frozen Tuna Raw Material Market in Thailand, *Journal of Fisheries Society of Taiwan*, 27(1): 45-58.
15. Tsay, Ching-Yen, Jau-Ming Chen, and **Chin-Hwa Sun**, 2001, Interannual Variability of Mackerel Purse Seine Fishery of Taiwan and its Associated Climate Changes, *Atmospheric Sciences*, 29(4): 379-394. (In Chinese)
16. Chen, Chi-Chung, **Chin-Hwa Sun**, Chia-Hsuan Wu, Ching-Cheng Chang, and Shih-Hsun Hsu, 2003, The Likely Economic Impacts of a Free Trade Agreement Between Taiwan and U.S on Taiwan Agriculture and Fishery Sectors, *Agriculture and Economics*, 30: 27-62. (In Chinese)

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17. **Sun, Chin-Hwa**, Cheng-Hong Lin, Fu-Sung Chiang, and Kuo-Jung Lin, 2003, General Equilibrium Analysis of the Impact of WTO Accession and the Elimination of the Fishery Fuel Tax Exemption on Agriculture, Livestock and Fishery Sectors in Taiwan, *Agriculture and Economics*, 31: 22-54. (In Chinese)
18. **Sun, Chin-Hwa**, Fu-Sung Chiang, Yuan-Yuan Shr, and Chen-Hsiang Liu, 2003, Valuing the Angler’s Willing to Pay for the Surf/Rocks Fishing in the Northeastern Coast of Taiwan, *Journal of Agricultural Economics*, 74: 63-88. (In Chinese)
19. Chiang, Fu-Sung, **Chin-Hwa Sun**, and Jin-Mey Yu, 2004, Technical Efficiency Analysis of the Milkfish (Chanos chanos) Production in Taiwan - An Application of the Stochastic Frontier Production Function, *Aquaculture*, 230(1-2): 99-116, Elsevier Science B.V., Amsterdam, Netherlands.
20. Chiang, Fu-Sung, **Chin-Hwa Sun**, and Cheng-Hong Lin, 2004, The Impact of Taiwan's WTO Entry on Its Domestic Agricultural Sector, *Review of Urban & Regional Development Studies*, 16(1): 1-13.
21. **Sun, Chin-Hwa**, Fu-Sung Chiang and Kai-Yin Chang, 2005, Impact Evaluation of Import Substitutions of Fishery Product Imports from China on Taiwan's Fishery Industry, *Taiwanese Agricultural Economic Review*, 11: 107-142. (In Chinese)
22. **Sun, Chin-Hwa**, Fu-Sung Chiang, Min-Hsiang Chen and Eugene Tsoa, 2006, The Effects of El Niño on the Mackerel Purse-Seine Fishery Harvests in Taiwan: An Analysis Integrating the Barometric Readings and Sea Surface Temperature, *Ecological Economics*, 56(2): 268-279.
23. **Sun, Chin-Hwa**, Fu-Sung Chiang, and Yu-Fang Chuang, 2007, The Impact of Elimination of the Fishery Fuel Tax Exemption and Suspension of Fishing Activities Program on Taiwan’s Fishing Industry, *Taiwanese Agricultural Economic Review*, 12(2): 261-295. (In Chinese)
24. **Sun, Chin-Hwa** and Cheng-Hong Lin, 2007, Evaluation of the TAI\_D Decision Rules of the Management Procedure of Total Allowable Catch of Southern Bluefin Tuna, *Taiwan Economic Forecast and Policy*, 37(3): 55-82. (In Chinese)
25. **Sun, Chin-Hwa**, Miao-Fang Wu and Fu-Sung Chiang, 2007, A Study of the Impact of Tariff Reduction in Doha Development Round on the Fisheries Sector in Taiwan: An Application of the Fisheries Sector Equilibrium Model, *Journal of Agricultural Economics*, 81(2): 57-92. (In Chinese)
26. Liu, De-Chih, **Chin-Hwa Sun**, Pei-Chien Lin. 2012. Hysteresis Hypothesis in Unemployment and Labour Force Participation Rates: Evidence from Australian States and Territories, *Australian Economic Paper*, 51(2):71-84.
27. Mills, K., Pershing, A.J., C. Brown, Y. Chen, F. Chiang, D.S. Holland, S. Lehuta, J. Nye, **J.C. Sun**, A. Thomas, and R. Wahle. 2013. Fisheries management in a changing climate: lessons from the 2012 ocean heat wave in the Northwest Atlantic. *Oceanography* 26(2):60-64.  
<http://tos.org/oceanography/article/fisheries-management-in-a-changing-climate-lessonsfrom-the-2012-ocean-heat->
28. Pershing, Andrew, J. John H. Annala, Steve Eayrs, Lisa A. Kerr, Jonathan Labaree, Jennifer Levin, Katherine E. Mills, Jeffrey A. Runge, Graham D. Sherwood, **Jenny C. Sun**, and Shelly Tallack Caporossi. 2013. The Future of Cod in the Gulf of Maine, Gulf of Maine Research Institute, Portland, ME USA.  
[http://www.gmri.org/sites/default/files/resource/gmri - the future of cod in the gulf of maine.pdf](http://www.gmri.org/sites/default/files/resource/gmri_-_the_future_of_cod_in_the_gulf_of_maine.pdf).
29. **Sun, Jenny**. 2014. Bio-Economic Tradeoffs among Gears and Fleet Dynamics of Tuna Purse-Seiner Fishery, in the “Technical Experts Workshop on the capacity of the tuna-fishing fleet in the Eastern Pacific Ocean,” sponsored by IATTC, in coordination with the Government of Colombia and with the support of the European Union, World Wildlife Fund, and International Seafood Sustainability Foundation, Cartagena, Colombia, April 23-25, 2014.
30. **Sun, J.** and F-S Chiang, 2015, Exploitation of Sea Urchins, *Echinoderm Aquaculture*, Edited by Nicholas Brown and Steve Eddy, ISBN: 978-0-470-96038-7, 384 pages, Wiley-Blackwell,  
<http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470960388.html>
31. **Sun, J.**, F-S Chiang, P. Guillotreau, D. Squires, D.G. Webster, M. Owens. 2015. Fewer Fish for Higher Profits? Price Response and Economic Incentives in Global Tuna Fisheries Management. *Environmental and Resource Economics*, In Press. First online: 24 September 2015, doi:10.1007/s10640-015-9971-4,  
<http://link.springer.com/article/10.1007/s10640-015-9971-4>.
32. Squires, Dale, Jenny Sun, James Hilger, Valerie Chan, Mark Helvey, Samuel F. Herrick, Jr., Stephen Stohs, Kathleen Segerson. 2016, Conservation of Global Public Goods: The Endangered Species Act and Pacific Sea Turtles, Agenda Item D.5.b Supplemental Public Comment 2 June 2016 Appendix II, Western Pacific Fishery Management Council meeting on June, 2016.  
[http://www.pccouncil.org/wp-content/uploads/2016/06/D5b\\_Sup\\_PubCom2\\_JUN2016BB.pdf](http://www.pccouncil.org/wp-content/uploads/2016/06/D5b_Sup_PubCom2_JUN2016BB.pdf).
33. **Sun, Chin-Hwa Jenny** and Leah Fine, 2016, A Cost-Effective Discards-Proportional At-Sea Monitoring Allocation Scheme for the Groundfish Fishery in New England, *Marine Policy*, 66:75-82,  
<http://www.sciencedirect.com/science/article/pii/S0308597X16000063>.
34. **Sun, J.**, Hinton MG, Webster DG. 2016. Modeling the Spatial Dynamics of International Tuna Fleets. *PLoS ONE* 11(8): e0159626. doi:10.1371/journal.pone.0159626,  
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0159626>.

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35. **Sun, Jenny**, Fu-Sung Chiang, Matt Owens, Dale Squires, U.S. Consumer Demand for Canned Tuna with Scanner Data: Evaluation of Market Based Incentives for Fisheries Reform, *Marine Policy*, under reviewing.
36. Guillotreau, P., Dale Squires, **Jenny Sun** and G. A. Compeán, Local, regional and global markets: what drives the fisheries? Guest Editor: Richard Brill, Laurent Dagorn, and Alistair Hobday, *Reviews in Fish Biology and Fisheries*, under reviewing.
37. **Sun, Jenny**, Bradley Franklin, Brian Kennedy. Capturing the Economic Impact of the 2012 Ocean Heat Wave on Maine’s Lobster Fishery through Sector Equilibrium and Input-Output Models, *Agricultural and Resource Economics Review*, under reviewing.

### B. Books/Chapters

1. Chiang, Fu-Sung, Chin-Hwa Sun and Jonq-Ying Lee, 2000, An English-Chinese Glossary of Business, Management, Economics and Statistics (ISBN: 957-97479-7-0).
2. Liu, Donald J., Chin-Hwa Sun, and Harry M. Kaiser, 2006, Market Conduct under Government Price Intervention in the U.S. Dairy Industry, in *New Empirical Industrial Organization and the Food System*, Edited by Harry Kaiser and Nobuhiro Suzuki, 2006, Peter Lang Publishing, Inc, New York.
3. Chiang, Fu-Sung and Chin-Hwa Sun, 2006, A Study of Consumer Safety and its Impact on Industrial Development, Council for Economic Development and Planning, (ISBN: 978-986-00-8719-2). (In Chinese)
4. Sun, Chin-Hwa, 2007, Effectiveness of Vessel Buyback Programs on the Offshore Fishery in Taiwan, in *Fisheries Buybacks*, Edited by Rita Curtis and Dale Squires, 2007, Blackwell Publishing, Inc, Iowa, pp. 203-214.
5. Chiang, Fu-Sung and Chin-Hwa Sun, 2010, Influence of Global Warming on Seafood Availability, Editor: Elzbieta, G. Daczkowska-Kozon and Bonnie Sun Pan, *Environmental Effects on Seafood Availability, Safety and Quality Issues*, CRC Press LLC., pp. 261-273.
6. Miyake, Peter M., Patrice Guillotreau, Chin-Hwa Sun, Gaku Ishimura. 2010. *Recent Developments in Tuna Industry: Stocks, Fishery, Management, Processing, Trade and Markets*, FAO Fisheries and Aquaculture Technical Paper. No. 543. Rome, FAO. 125p. <http://www.fao.org/docrep/013/i1705e/i1705e.pdf>
7. **Sun, Chin-Hwa**, Mark N. Maunder, Alexandre Aires-da-Silva, and William H. Bayliff. 2010. Economics and Conservation: Increasing the Economic Value of the Eastern Pacific Ocean Tropical Tuna Fishery, International Workshop on Global Tuna Demand, Fisheries Dynamics and Fisheries Management, pp. 5-27, sponsor by IATTC and NMFS, May13-14, La Jolla, California. [http://fisheriesstockassessment.com/files/economics/Comprehensive%20Final%20Report\\_2010\\_Jenny%20Sun.pdf](http://fisheriesstockassessment.com/files/economics/Comprehensive%20Final%20Report_2010_Jenny%20Sun.pdf)
8. Chiang, Fu-Sung and **Chin-Hwa Sun**. 2010. Influence of Global Warming on Seafood Availability, in *Environmental Effects on Seafood Availability, Safety and Quality Issues*, Editor: Elzbieta, G. Daczkowska-Kozon and Bonnie Sun Pan, CRC Press LLC. pp. 261-273. <https://www.crcpress.com/Environmental-Effects-on-Seafood-Availability-Safety-and-Quality/Daczkowska-Kozon-Pan/p/book/9781439803271>
9. Dayton, Alexa M., **Jenny Sun**, 2012. An Independent Evaluation of the Maine Limited Entry Licensing System for Lobster and Crab, Prepared for Maine Department of Marine Resources by Gulf of Maine Research Institute, <http://www.gmri.org/our-work/fishing-industry-innovation/resource-economics/lobster>.
10. Dayton, A. and Jenny Sun. 2013. Understanding Barriers and Opportunities to Profitability in the New England Lobster Fishery, NMFS/SK project report, [http://www.gmri.org/sites/default/files/resource/gmri\\_2014\\_lobster\\_survey.pdf](http://www.gmri.org/sites/default/files/resource/gmri_2014_lobster_survey.pdf)
11. Squires, Dale, Jenny Sun, James Hilger, Valerie Chan, Mark Helvey, Samuel F. Herrick, Jr., Stephen Stohs, Kathleen Segerson. 2016, Conservation of Global Public Goods: The Endangered Species Act and Pacific Sea Turtles, Agenda Item D.5.b Supplemental Public Comment 2 June 2016 Appendix II page 30, Western Pacific Fishery Management Council meeting on June, 2016. [http://www.pcouncil.org/wp-content/uploads/2016/06/D5b\\_Sup\\_PubCom2\\_JUN2016BB.pdf](http://www.pcouncil.org/wp-content/uploads/2016/06/D5b_Sup_PubCom2_JUN2016BB.pdf).

### C. Synergistic Activities

1. The primary focus of Jenny's research is to apply research and policy analysis relating to marine resources economics and rights-based management. She is experienced and knowledgeable about the global seafood industry and her interests in fisheries resource economics cover a number of topics, particularly on the market incentives-based management for the sustainability of the marine and coastal resources as well as bio-economic modeling and fleet spatial dynamics issues. Jenny has published 30 journal articles, 10 book chapters, more than 70 conference papers, conducted, coordinated more than 70 projects, serves as advisors for a total of forty master and Ph.D. graduate students, organized and been invited to participate in more than 50 international meetings on the economics of fisheries resource conservation and management.

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2. Co-Principal Investigator for two multi-years collaborative National Science Foundation (NSF) grants under Coupled Natural Human (CNH) and Coastal Science, Engineering and Education for Sustainability (SEES). Her works on the “[Fishscape: Complex Dynamics of the Eastern Pacific Tuna Fishery](#)” (2010-2015) is to build up a fully integrated, geo-spatial model of the international tuna fishery in the Eastern Pacific Ocean and to evaluate the impact of the oceans environment variability, the fish distribution, the fishers spatial-temporal fleet dynamics response, the global market mechanism, and the political policies. She also work on “[Resilience and Adaptation of a Coastal Ecological-Economic System in Response to Increasing Temperature](#)” (2013-2017) to evaluate the economic impact, the technical inefficiency in productivity, and the market response of the extreme warmth of 2012 on the region’s valuable lobster fishery in Maine and groundfish in New England. In addition, a three-year NOAA/COCA (2015-2018) is just awarded to evaluate social-ecological vulnerability and climate adaptation strategies for northeast U.S. fishing communities.
3. Key committees: (1) Economic Coordinating Committee for a series of workshop hosted by the Social Science Branch in NEFSC with fishermen, along with GMRI and GAFRO to develop solutions to improve fishing businesses. The Workshop #2 is scheduled on April 10, 2014 at Quincy, MA and aims to increase use of allocations and value to industry (2) Graduate Faculty of the Interdisciplinary Doctor of Philosophy and Adjunct Associate Research Professor, School of Marine Sciences, Univ. of Maine since 2013. (3) Invited to serve as an independent panelist to participate the Mid-Atlantic Fishery Management Council “Expert Panel Review of the Scup Allocations Study” (<http://www.mafmc.org/council-events/scup-study-review>) in Baltimore, MD on Aug 1, 2013. The expert panel reviewing the scup allocation work was a combination of Scientific and Statistical Committee members and outside experts.
4. Reviewer: Scientific Report, Canadian Journal of Fisheries and Aquatic Sciences, Journal of Ocean and Coastal Economics, Progress in Oceanography; Editorial Board: Journal of Aquaculture Economics and Management, International Association of Aquaculture Economics and Management; Taiwanese Agricultural Economic Review, Rural Economics Society of Taiwan. Executive Committee, International Institute of Fisheries Economics & Trade, 2000-2004; Scientific Committee, 2008 Conference in Vietnam and 2010 Conference in Montpellier, France.
5. Scientist Delegate to attend the IATTC in 2008-2011 and the Commission, Stock Assessment Group, Scientific Committee, and Management Procedure Meetings for Commission for Conservation of Southern Bluefin Tuna (CCSBT) in Korean, US, Australia, Taiwan, and Japan, 2004-2008. Invited to design a decision rule for the global total allocation catch of southern bluefin tuna and the rule (CMP\_04) was selected as one of the final four Candidate Management Procedure (CMP) by Commission for Conservation of Southern Bluefin Tuna and to present in various CCSBT meeting in Korea, Australia, Taiwan, and Japan during 2004-2008 (CCSBT-MP/0404/07 in 2004 and CCSBT-MP/0505/08 in 2005). Her CMP is targeted to ensure the recovery of the biomass in the long run and also to prevent a dramatic economic loss in the short run.
6. Honors and Invited Speeches on the economics of international fisheries resource conservation and management:
  - Invited by IATTC in 2010 to host an international workshop with M. N. Maunder, M. Pan, and D. Squires on “[Global Tuna Demand, Fisheries Dynamics and Fisheries Management in the Eastern Pacific Ocean](#)” at La Jolla, CA on May 13-14 to promote right-based management of the tuna fishery in the East Pacific Ocean.
  - Invited Speaker/panels: (1) International Workshop on Fishing Vessel and License Buy-Back Programs, La Jolla, California, sponsored by Southwest Fisheries Science Center, NOAA Fisheries and University of California, San Diego, 2004; (2) Workshop to Estimate and Assess Capacity in the Pacific Longline Fleet, NOAA Fisheries, Honolulu, Hawaii, 2008 and 2009; (3) Workshop on Rights-based Management and Buybacks in International Tuna Fisheries, sponsored by IATTC and the World Bank, San Diego, 2008; (4) IATTC Technical Experts Workshop on the capacity of the tuna-fishing fleet in the Eastern Pacific Ocean, Cartagena, Colombia, 2014; (5) Disproportionate burden: a framework for evaluate the impacts to Small Island Developing States from Conservation and Management Measures promulgated by the Western and Central Pacific Fisheries Commission, sponsored by Western Pacific Fishery Management Council, Hawaii, 2014.

### D. Presentations (Selected in 2014-2016):

1. Sun, Jenny, Andrew Kitts and Jessica Joyce, 2014, Evolution of Groundfish Sectors Business Viability Model in New England, American Fisheries Society 144th Annual Meeting Québec, Canada August 17-21.
2. Sun, Jenny, Michael Hinton and DG Webster, 2014, Fleet Dynamics of Tuna Purse-Seiner Fishery in the EPO: An Application of the Spatial-temporal Distribution of Fishing Effort on Fishscape, American Fisheries Society 144th Annual Meeting Québec, Canada, August 17-21, 2014.
3. Sun, Jenny, Alexa Dayton, Frank Chiang, 2014, Impact of the 2012 Gulf of Maine Heatwave: Market Integration of

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- US-Canada Lobster Economy, American Fisheries Society 144th Annual Meeting Québec, Canada, August 17-21, 2014.
4. Sun, Jenny, 2014, Seasonality and volatility of the ex-vessel price and landings by ports and ACE Leasing Market – Variability of leasing price and the concept of time value of ACE leasing, workshop “Developing Solutions to Improve Groundfish Fishing Businesses in New England”, hosted by the Social Science Branch in Northeast Fishery Science Center with fishermen, along with GMRI and Greater Atlantic Regional Fisheries Office, Quincy, MA., April 10, 2014.
  5. Sun, Jenny, 2014, Bio-Economic Tradeoffs among Gears and Fleet Dynamics of Tuna Purse-Seiner Fishery, in the “Technical Experts Workshop on the capacity of the tuna-fishing fleet in the Eastern Pacific Ocean,” sponsored by IATTC, in coordination with the Government of Colombia and with the support of the European Union, World Wildlife Fund, and International Seafood Sustainability Foundation, Cartagena, Colombia, April 23-25, 2014, <http://www.iatcc.org/Meetings/Meetings2014/April/WorkshopCapacityEPOENG.htm>.
  6. Sun, Jenny, 2014, Analysis of Landings/Discards-Proportional Allocation Scheme for the At-Sea Monitoring Program of the Groundfish Fishery in New England, Gulf of Maine Research Institute, MFI Monitoring Workshop, Feb. 24-26, New Bedford, MA, [http://www.gmri.org/upload/files/Landings%20and%20discards%20proportional%20monitoring\\_final%2002-13-2013\[1\]%20copy.pdf](http://www.gmri.org/upload/files/Landings%20and%20discards%20proportional%20monitoring_final%2002-13-2013[1]%20copy.pdf).
  7. Sun, Jenny and Andrew Kitts, 2015, Groundfish Sectors Business Viability Assessment: Analyzing the Date-Dependent ACE Leasing Price and the Utilization of ACE, North American Association of Fisheries Economists 8th (2015) Biennial Forum, May 20–22, 2015, Ketchikan, AK.
  8. Sun, Jenny and Frank Chiang, Resilience and Adaptation of a Coastal Economic System: Market Integration of US-Canada American Lobster Economy, 2015 Annual meeting of Northeast Agricultural and Resource Economics Association and the Canadian Agricultural Economics Society, June 28-30, Newport, RI.
  9. Sun, Jenny, Frank Chiang, and Arnault Le Bris, 2015, Changing Climate, Changing Economics: Global Market Integration of US-Canada American Lobster in the Emerging Chinese Market, American Lobster In A Changing Ecosystem II: A US-Canada Science Symposium at Charlottetown, PEI, Canada, Nov 3-6.
  10. Sun, Jenny, Kathy Mills and Andrew Pershing, 2015, The Impact of Rising Temperatures on the Timing and Location of Lobster Landings in the Gulf of Maine, Regional Association for Research on the Gulf of Maine, Oct. 14, Portsmouth, NH.
  11. Sun, Jenny and Fu-Sung Chiang, 2016, Changing Ocean, Changing Economics: Impact of Rising Temperatures on the Catchability and Profitability of American Lobster Fishery, CNREP, New Orland, LA, March 21-23.
  12. Sun, Jenny and Fu-Sung Chiang, 2016, Impact of Rising Temperatures on the American Lobster Landings and on the US-Canada Lobster Economics in the Emerging Chinese Market, World Fishery Congress, Busan, Korea, May 21-26.
  13. Sun, Jenny, Eric Thunberg, Bradley Franklin, and Brian Kennedy, 2016, Economic impacts of climate variability on Maine lobster fishery and its climate adaptation options, 2016 Annual meeting of Northeast Agricultural and Resource Economics Association (NAREA), Bar Harbor, ME, June 19-22.

### E. Grants and Projects (2011-2018 in GMRI)

1. Webster, DG, Dale A Kiefer, Robert J Lempert, Jenny Sun and Dale E Squires, 2010-2015, Dynamics of Coupled Natural and Human Systems (CNH) Fishscape: Complex Dynamics of the Eastern Pacific Tuna Fishery, National Science Foundation (US\$1,350,000), [http://www.tos.org/oceanography/archive/26-2\\_mills.html](http://www.tos.org/oceanography/archive/26-2_mills.html).
2. Dayton, Alexa M., Jenny Sun, 2012. An Independent Evaluation of the Maine Limited Entry Licensing System for Lobster and Crab, Prepared for Maine Department of Marine Resources by Gulf of Maine Research Institute, (7/10-10/15/2012)(\$124,593), <http://www.gmri.org/news/tidings/lobster-report-spurs-discussion>, <http://www.gmri.org/our-work/fishing-industry-innovation/resource-economics/lobster>, <http://www.gmri.org/news/tidings/maine-evaluates-options-lobster-licensing>.
3. Sun, Jenny. 2012-2015, Groundfish Sector Business Model, SSB, NEFSC (7/1/2012-6/31/2015) (\$124,593).
4. Brown, Nicholas, Stephen Eddy, and Jenny Sun, From Capture to Culture: Adding Value to the Sea Urchin Fishery, Sea Grant (9/1/2012-8/31/2014) (\$180,000 requested from NOAA Sea Grant; \$90,000 provided as match).
5. Sun, Jenny, F. Chiang, T. Farmer, and D. Holland, 2013-2017, Collaborative Research: Resilience and Adaptation of a Coastal Ecological-Economic System in Response to Increasing Temperature, NSF Coastal SEES (9/1/2013-8/31/2017) (\$372,051), [http://www.nsf.gov/awardsearch/showAward?AWD\\_ID=1325484](http://www.nsf.gov/awardsearch/showAward?AWD_ID=1325484).
6. Mills, K., Jenny Sun, Steve Eayrs, Jonathan Labaree, Troy Hartley, Jon Hare, Lisa Colburn, and Eric Thunberg. 2015-2018. Evaluating Social-Ecological Vulnerability and Climate Adaptation Strategies for Northeast U.S. Fishing Communities, NOAA/COCA (8/1/2015-7/31/2018) (\$1,338,847).
7. Levin, Jen and Jenny Sun, 2015-2017, Establishing High End and Sashimi-Grade Markets for Seafood from the Northeast United States, NOAA Saltonstall-Kennedy Grant (9/1/2015-8/31/2017) (\$191,768).