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EDUCATION

Ph.D. 2003, University of Rhode Island, Kingston RI; Fisheries Science,

Dissertation Title: *Stock Structure of Yellowtail Flounder off the Northeastern United States.*

M.S. 1995, University of Massachusetts, Dartmouth MA; Marine Biology,

Thesis Title: *Discrimination of American Lobster Stocks in southern New England Waters.*

B.S. 1985, Long Island University, Southampton NY; Marine Science/Biology

PROFESSIONAL APPOINTMENTS

Professor, University of Massachusetts Dartmouth, Department of Fisheries Oceanography (2016 to present), New Bedford MA (www.umassd.edu/smast), Department Chair (2016 to 2021), Massachusetts Fisheries Institute Co-Director (2020 to present)

Associate Professor, University of Massachusetts Dartmouth, Department of Fisheries Oceanography (2010 to 2016), Fairhaven MA. Massachusetts Fisheries Institute Education Director, Marine Sciences Graduate Program Director (2014 to 2016)

Director, NOAA/UMass Cooperative Marine Education and Research Program (2005 to 2010) School for Marine Science and Technology, New Bedford MA

Research Fisheries Biologist (1996 to 2005), Population Dynamics Branch, Northeast Fisheries Science Center, Woods Hole MA

Marine Fisheries Biologist (1988 to 1996) Massachusetts Division of Marine Fisheries, Sandwich MA

Marine Resources Specialist (1987 to 1988) New York Division of Marine Resources, Stony Brook NY

Fisheries Observer (1985 to 1986) NOAA Fisheries, Northwest and Northeast Regions.

AFFILIATE APPOINTMENTS

- Associate Graduate Faculty, University of Southern Mississippi, 2018-present
- Adjunct Assistant Professor, University of Maryland, 2004-2007

AWARDS

2021 University of Massachusetts Dartmouth, Scholar of the Year for a substantial body of work and exemplary scholarly achievement in fisheries oceanography

2021 American Fisheries Society, Marine Fisheries Section Oscar E. Sette Award for Outstanding Marine Fishery Biologist for sustained excellence in marine fishery biology through research, teaching, and administration

2020 International Council for the Exploration of the Seas (ICES) Service Award for chairing the Workshop on North Sea Cod Stock Identification

2019 Award of Excellence from the American Fisheries Society's Southern New England Chapter for a distinguished record of accomplishment in mentorship, teaching, service to the chapter, and research in fisheries science.

- 2017 ICES Service Award for co-chairing the Strategic Initiative on Stock Assessment Methods
- 2015 ICES Service Award for chairing the ICES Training Program
- 2015 University of Massachusetts Dartmouth Sponsored Research Recognition
- 2010 Award of Excellence from the American Fisheries Society's Southern New England Chapter for outstanding contributions to the fields of fisheries research and education.
- 2009 Joint Ocean Commission Initiative, Marc J. Hershman Excellence in Mentoring Inaugural Award
- 2009 ICES Service Award for chairing the Workshop on Redfish Stock Structure.
- 2007 ICES Service Award for chairing the Stock Identification Methods Working Group.
- 2004 ICES Merit Award for best presentation on "The use of electronic tags to study fish movement: a case study with yellowtail flounder of New England"
- 2003 Department of Commerce Bronze Medal Award for scientific advances in restoring New England groundfish stocks.
- 1998 Department of Commerce Special Service Award for contributions to the Overfishing Definition Review Panel.
- 1995 Massachusetts Department of Fisheries, Wildlife, and Environmental Law Enforcement "Pride in Performance" Award for stock assessment research on lobster, menhaden and cod.

SOCIETY MEMBERSHIPS

- American Fisheries Society (AFS) 1986 (New York chapter)-present (southern New England Chapter).
- American Institute of Research Fishery Biologists (AIFRB) 2005-present; New England District Director 2006-2009; President 2011-2013

KEYNOTE PRESENTATIONS

1. Best practices for defining spatial boundaries and structure for stock assessment. Center for the Advancement of Population Assessment Methodology, Workshop on Good Practices in Stock Assessment Modeling (Rome Italy, October 31-November 4 2022)
2. National Stock Assessment Seminar on "Optimal Spatial Boundaries and Strata for Stock Assessment... and confronting practical realities" (May 6 2021)
<https://www.youtube.com/watch?v=2txgQnwtXBk>
3. Defining Spatial Structure. Center for the Advancement of Population Assessment Methodology, Workshop on Spatial Stock Assessment Models (La Jolla CA, October 1-5 2018).
4. Management Strategies for Mixed-Species, Recreational and Subsistence Fisheries. 30th Lowell Wakefield International Symposium on Tools and Strategies for Assessment and Management of Data-Limited Fish Stocks (Anchorage AK, May 12-15 2015).
5. Optimal Yield from Mixed-Stock Fisheries. University of Washington Bevan Symposium on Sustainable Fisheries (Seattle WA, April 24-25 2014).
6. Sustainable Fisheries. IDEAS Boston (Boston MA, October 30 2013)
7. Advanced Technology for Fishery Science: Experiences with Archival Tagging. American Fisheries Society Southern New England Chapter Science Meeting (Fall River MA, June 14 2006)

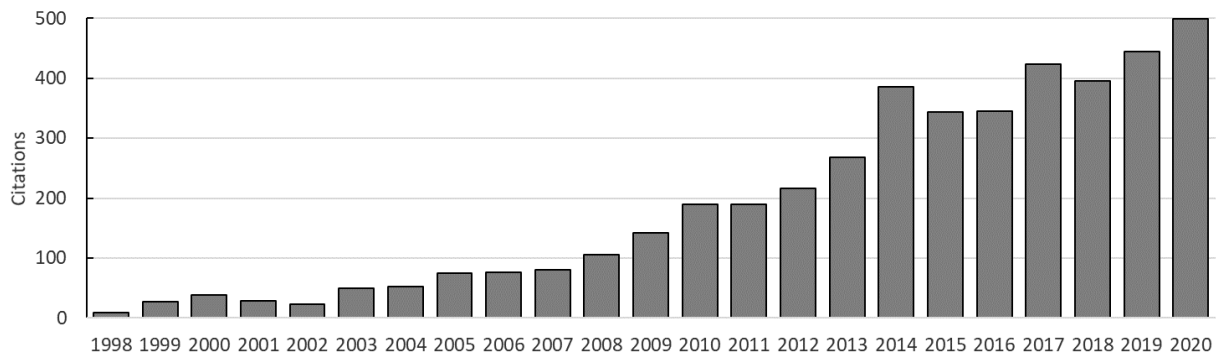
CONGRESSIONAL TESTIMONIES

- Open Letter to the 116th Congress from U.S. Marine Fishery Scientists on Marine Protected Areas - Title II of the Ocean-Based Climate Solutions Act (H.R.8632), drafted with Ray Hilborn, Yong Chen & Cate O'Keefe (<https://sustainablefisheries-uw.org/open-letter-to-congress-from-fishery-scientists/>)
- NOAA's Fishery Science: Is the Lack of Basic Science Costing Jobs? U.S. House of Representatives, Committee on Natural Resources, Subcommittee on Fisheries, Wildlife, Oceans, and Insular Affairs, oversight hearing (Washington DC, July 26 2011).
- Massachusetts Fishery Management Plans. U.S. Senate, Committee on Commerce, Science, and Transportation, Field Hearing (Boston MA, October 3 2011).

JOURNAL AND BOOK PUBLICATIONS

>120 peer-reviewed publications, >200 technical reports, ~5,000 citations

h-index=36, 83 publications with >=10 citations (scholar.google.com)



1. Dean MJ, WS Hoffman, NC Buchan, SX Cadrin & JH Grabowski. 2021. The influence of trawl efficiency assumptions on survey-based population metrics. ICES Journal of Marine <https://doi.org/10.1093/icesjms/fsab164>.
2. Goethel DR & SX Cadrin. 2021. Reviving the spatial fishery models conceived by Sidney Holt and Ray Beverton. ICES Journal of Marine Science doi.org/10.1093/icesjms/fsab021.
3. Lucey SM, KY Aydin, SK Gaichas, SX Cadrin, G Fay, MJ Fogarty & A Punt. 2021. Evaluating fishery management strategies using an ecosystem model as an operating model. Fisheries Research 234: 105780.
4. Lowman B, CE O'Keefe & SX Cadrin. 2021. Predictive models of yellowtail flounder bycatch in the U.S. sea scallop fishery on Georges Bank. J. Northwest Atl. Fishery Science 52: 1–18.
5. O'Keefe CE, SX Cadrin, G Glemarec & Y Rouxel. 2021. Efficacy of Time-Area Fishing Restrictions and Gear-Switching as Solutions for Reducing Seabird Bycatch in Gillnet Fisheries. Reviews in Fisheries Science & Aquaculture <https://doi.org/10.1080/23308249.2021.1988051>.
6. Puncher GN, Y Wang, R Martin, G DeCelles, SX Cadrin, D Zemeckis, S Rowe, NM Leblanc, GJ Parent & SA Pavey. 2021. Transborder gene flow between Canada and the U.S.A. and fine-scale population structure of Atlantic cod in the broader Gulf of Maine Region. Transactions of the American Fisheries Society <https://doi.org/10.1002/tafs.10305>.

7. Shackell NL, AC Seitz, SX Cadrin, CE den Heyer, A Le Bris, CH McGuire, D Robert & ME Kersula. 2021. Spatial ecology and implications for management of a recovering species in an era of climate change: a review of Atlantic halibut (*Hippoglossus hippoglossus* L.) across the Northwest Atlantic. *Reviews in Fisheries Science and Aquaculture* DOI: 10.1080/23308249.2021.1948502.
8. Solinger LK, DR Hennen, SX Cadrin & EN Powell. 2021. Atlantic surf clam biomass and density are resistant to current fishing pressure despite uncertainties. *Fisheries Research* (in press).
9. Bank CM, K Oliveira, SJ Sutherland, MP Armstrong & SX Cadrin. 2020. Age validation of monkfish (*Lophius americanus*). *Fishery Bulletin* 118: 8-20.
10. Berg PR, PE Jorde, KA Glover, G Dahle, JB Taggart, K Korsbrekke, GE Dingsør, JE Skjæraasen, PJ Wright, SX Cadrin, H Knutsen & J-I Westgaard. 2020. Genetic structuring in Atlantic haddock contrasts with current management regimes. *ICES Journal of Marine Science* 78: 1–13 [**selected as Editor's Choice article**]
11. Cadrin SX. 2020. Defining spatial structure for fishery stock assessment. *Fisheries Research* 221: 105397.
12. Cadrin SX. 2020. Fisheries Conservation and Management. In The Handbook of Natural Resources, Second Edition, Volume 5 Coastal and Marine Ecosystems. Y Wang Ed. Taylor and Francis.
13. Cadrin SX, MN Maunder & AE, Punt. 2020. Spatial Structure: Theory, estimation and application in stock assessment models. *Fisheries Research* 229: 105608.
14. Dean MJ, WS Hoffman, NC Buchan, SX Cadrin & JH Grabowski. 2020. Deconstructing size selectivity to evaluate the influence of fishery management. *Fisheries Research* 234: 105782.
15. Hansell AE, GR DeCelles, ME Kersula & SX Cadrin. 2020. Incorporating harvesters' knowledge into an index of abundance for Atlantic halibut (*Hippoglossus hippoglossus*) in the northwest Atlantic. *Transactions of the American Fisheries Society* 149: 741-752.
16. Hansell AC, TH Curtis, J Carlson, E Cortés, G Fay & SX Cadrin. 2020. Stock Assessment of the Lemon Shark (*Negaprion brevirostris*) off the Southeast United States. *North American Journal of Fisheries Management* 41: 35-48.
17. Kerr LA, Z Whitener, SX Cadrin, MR Morse, DH Secor, W Golet. 2020. Mixed stock origin of Atlantic bluefin tuna in the U.S. rod and reel fishery (Gulf of Maine) and implications for fisheries management. *Fisheries Research* <https://doi.org/10.1016/j.fishres.2019.105461>.
18. Morse MR, LA Kerr, B Galuardi & SX Cadrin. 2020. Performance of stock assessments for mixed-population fisheries: The illustrative case of Atlantic bluefin tuna. *ICES Journal of Marine Science* 77: 2043–2055.
19. Cadrin SX, DR Goethel, MR Morse, G Fay & LA Kerr. 2019. "So, where do you come from?" the impact of assumed spatial population structure on estimates of recruitment. *Fisheries Research* 217: 156-168.
20. Clucas, GV, LA Kerr, SX Cadrin, DR Zemeckis, GD Sherwood, D Goethel, Z Whitener & AI Kovach. 2019. Adaptive genetic variation underlies biocomplexity of Atlantic Cod in the Gulf of Maine and Georges Bank. *PLoS ONE* 14(5): e0216992.

21. Kerr LA, JP Kritzer & SX. Cadrin. 2019. Strengths and limitations of Before-After-Control-Impact analysis for testing the effects of marine protected areas on managed populations. *ICES Journal of Marine Science* 76: 1039–1051. **[listed in 10 most read articles: https://academic.oup.com/icesjms/pages/high_impact_articles]**
22. Liu, C, C Bank, M Kersula, GW Cowles, DR Zemeckis, SX Cadrin, C McGuire. 2019. Movements and habitat occupancy based on geolocation of Atlantic halibut in the Gulf of Maine. *ICES Journal of Marine Science* 76: 2020–2032 **[selected as Editor's Choice article]**
23. Liu C, G Cowles, D Zemeckis, G Fay, A Le Bris, SX Cadrin. 2019. Hardware-accelerated particle filter for the geolocation of demersal fishes. *Fisheries Research* 213: 160-171.
24. Zemeckis DR, MJ Dean, AI DeAngelis, SM Van Parijs, WS Hoffman, M Baumgartner, L Hatch, SX Cadrin & CH McGuire. 2019. Identifying the distribution of Atlantic cod spawning using multiple fixed and glider-mounted acoustic technologies. *ICES J Mar Sci* 76: 1610–1625.
25. Friedman K, S Gabriel, H Abdul Wahab, O Abe, A Adnan Nuruddin, A Ali, R Bidin Raja Hassan, SX Cadrin, A Cornish, AT De Meulenaer, D Dharmadi, A Fahmi, L Huu Tuan Anh, D Kachelriess, L Kissol Jr., T Krajangdara, A Rahman Wahab, W Tanoue, C Tharith, F Torres Jr., W Wanchana, S Win, K Yokawa, & Y Ye. 2018. Examining the impact of CITES listing of sharks and rays in Southeast Asian fisheries. *Fish & Fisheries* 19: 662-676.
26. Hansell AC, ST Kessel, LR Brewster, SX Cadrin, SH Gruber, GB Skomal & TL Guttridge. 2018. Local indicators of abundance and demographics for the coastal shark assemblage off Bimini, Bahamas. *Fisheries Research* 197: 34-44.
27. DeCelles G, D Martins, DR Zemeckis & SX Cadrin. 2017. Using fishermen's ecological knowledge to map Atlantic cod spawning grounds on Georges Bank. *ICES JMS* 74: 1587–1601.
28. Kerr LA, NT Hintzen, SX Cadrin, L Worsøe Clausen, M Dickey-Collas, DR Goethel, EMC Hatfield, J Kritzer & RDM Nash. 2017. Lessons learned from practical approaches to reconciling mismatches between biological population structure and stock units of marine fish. *ICES JMS* 74: 1708–1722.
29. Liu C, G Cowles, DR Zemeckis, SX Cadrin & MJ Dean. 2017. Validation of a hidden Markov model for the geolocation of Atlantic cod. *Can. J. Fish. Aquat. Sci.* 74: 1862–1877.
30. Stokesbury KDE, SX Cadrin, N Calabrese, E Keiley, T Lowery, BJ Rothschild & GR DeCelles. 2017. Towards an improved system for sampling New England groundfish using video technology. *Fisheries* 42: 427-434.
31. Zemeckis DR, C Liu, GW Cowles, MJ Dean, WS Hoffman, D Martins & SX Cadrin. 2017. Seasonal movements and connectivity of an Atlantic cod (*Gadus morhua*) spawning component in the western Gulf of Maine. *ICES JMS* 74: 1780–1796.
32. Begg GA & SX Cadrin. 2016. Stock identification. pp 252-278 in T Jakobsen, MJ Fogarty, BA Megrey & E Moksness Eds. *Fish Reproductive Biology: Implications for Assessment and Management*, 2nd Ed. Wiley Blackwell Publishing.
33. Cadrin SX. 2016. Management strategies for mixed-species commercial, recreational, and subsistence fisheries. In: Quinn II TJ, JL Armstrong, M Baker, JD Heifetz & D Witherell, Eds. Assessing and

- Managing Data-Limited Fish Stocks. Alaska Sea Grant AK-SG-16-01
<http://doi.org/10.4027/amdlfs.2016.01>.
34. Cadrin SX, GR DeCelles & D Reid. 2016. Informing fishery assessment and management with field observations of selectivity and efficiency. *Fisheries Research* 184: 9–17.
 35. Goethel D, LA Kerr & SX Cadrin. 2016. Incorporating spatial population structure into the assessment-management interface of marine resources. In: CTT Edwards & DJ Dankel, Eds. Management Science in Fisheries: an introduction to Simulation-Based Methods. Taylor & Francis pp 319-347.
 36. Kerr LA, SX Cadrin, DH Secor & NG Taylor. 2016. Modeling the implications of stock mixing and life history uncertainty of Atlantic bluefin tuna. *Can. J. Fish. Aquat. Sci.* 74: 1990–2004.
 37. Lowerre-Barbieri S, G DeCelles, P Pepin, IA Catalan, B Muhling, B Erisman, SX Cadrin, J Alós, A Ospina-Alvarez, MM Stachura, M Tringali, SW Burnsed & CB Paris. 2016. Reproductive resilience: a paradigm shift in understanding spawner-recruit systems in exploited marine fish. *Fish and Fisheries* 18: 285-312. **[Recognized as one of the Journal's top cited articles in recent publication history]**
 38. Saha A, T Johansen, R Hedeholm, EE Nielsen, J-I Westgaard, L Hauser, B Planque, SX Cadrin & J Boye. 2016. Geographic extent of introgression in *Sebastes mentella* and its effect on genetic population structure. *Evolutionary Applications* 2016: 1–14.
 39. Westgaard J-I, A Saha, MP Kent, HH Hansen, H Knutsen, L Hauser, S Cadrin, OT Albert & T Johansen. 2016. Genetic population structure in Greenland halibut (*Reinhardtius hippoglossoides*) and its relevance to fishery management. *Can. J. Fish Aquat. Sci.* 74: 475-485.
 40. Cadrin SX & M Dickey-Collas. 2015. Stock assessment methods for sustainable fisheries. *ICES JMS* 72: 1-6.
 41. DeCelles, G, G Cowles, C Liu & S Cadrin. 2015. Modeled transport of winter flounder larvae in coastal waters of the Gulf of Maine. *Fisheries Oceanography* 24: 430-444.
 42. Deroba JJ, DS Butterworth, RD Methot Jr, J De Oliveira, C Fernandez, A Nielsen, S Cadrin, M Dickey-Collas, CM Legault, J Ianelli, JL Valero, C Needle, JM O'Malley, Y-J Chang, GG Thompson, C Canales, DP Swain, DCM Miller, NT, Hintzen, M Bertignac, L Ibaibarriaga, A Silva, A Murta, L Kell, CL de Moor, A Parma, C Dichmont, V Restrepo, Y Ye, E Jardim, J Blaylock & M Mood. 2015. Simulation testing the robustness of stock assessment models to error: some results from the ICES Strategic Initiative on Stock Assessment Methods. *ICES JMS* 72: 19-30.
 43. Eayrs S, SX Cadrin & CW Glass. 2015. Managing change in fisheries: a key to fishery dependent data collection? *ICES JMS* 72: 1152-1158.
 44. Goethel DR, CM Legault & SX Cadrin. 2015. Demonstration of a spatially-explicit, tag-integrated stock assessment model with application to three interconnected stocks of yellowtail flounder off of New England. *ICES JMS* 72: 164-177.
 45. Goethel DR, CM Legault & SX Cadrin. 2015. Testing the performance of a spatially explicit tag-integrated stock assessment model of yellowtail flounder (*Limanda ferruginea*) through simulation analysis. *Can J Fish Aquat Sci* 72: 582-601.

46. Hall V, C Liu & SX Cadrin. 2015. The impact of the second seasonal spawn of the northern bay scallop, *Argopecten irradians irradians*. *Marine and Coastal Fisheries* 7: 419-433.
47. Smith LA, JS Link, SX Cadrin, DL Palka. 2015. Consumption by Marine Mammals on the Northeast US Continental Shelf. *Ecological Applications* 25: 373-389.
48. Cadrin SX. 2014. Do Not Believe Your Model Results. In A Lynch, N Leonard & W Taylor, Eds. Future of Fisheries: Perspectives for the Next Generation of Professionals, American Fisheries Society Press.
49. Cadrin SX. 2014. Fisheries Conservation and Management. In Encyclopedia of Natural Resources Volume II – Water and Air, Y Wang Ed. Taylor and Francis.
50. Cadrin SX. 2014. Morphometric Landmarks. Pp 109-128 in Stock Identification Methods, 2nd Ed. Elsevier Academic Press.
51. Cadrin SX, W Clark & D Ricard. 2014. Population dynamics and management of flatfish. Pp 461-490 in R Gibson, ed. Flatfishes: Biology and Exploitation 2nd edition Blackwell Science.
52. Cadrin SX, LA Kerr & S Mariani. 2014. Stock Identification Methods: applications in fisheries science, 2nd Ed. Elsevier Academic Press. 566p.
53. Cadrin SX, LA Kerr & S Mariani. 2014. Stock identification methods, an overview. Pp 1-6 in Stock Identification Methods, 2nd Ed. Elsevier Academic Press.
54. Cadrin SX, LA Kerr & S Mariani. 2014. Interdisciplinary evaluation of spatial population structure for definition of fishery management units. Pp 535-554 in Stock Identification Methods, 2nd Ed. Elsevier Academic Press.
55. Curtis TH, SI Zeeman, EL Summers, SX Cadrin & GB Skomal. 2014. Eyes in the sky: Linking satellite oceanography and biotelemetry to explore habitat selection by basking sharks. *Animal Biotelemetry* 2:12.
56. Hyun S-Y, SX Cadrin & S Roman. 2014. Fixed and mixed effect models for fishery data on depth distribution of Georges Bank yellowtail flounder. *Fisheries Research* 157: 180-186.
57. Kerr, LA, SX Cadrin & AI Kovach. 2014. Consequences of a mismatch between biological and management units on our perception of Atlantic cod off New England. *ICES JMS* 71: 1366-1381.
58. Midway S, F Scharf & SX Cadrin. 2014. Southern flounder *Paralichthys lethostigma* stock structure inferred from otolith shape analysis. *Fishery Bulletin* 112:326-338.
59. Nichols OC, E Eldredge & SX Cadrin. 2014. Gray seal behavior in a fish weir observed using Dual-frequency Identification Sonar (DIDSON). *Marine Technology Society Journal* Volume 48(4): 72-78.
60. Rochet M-J, T Catchpole & S Cadrin. 2014. Bycatch and discards: from improved knowledge to mitigation programmes. *ICES Journal of Marine Science* 71: 1216-1218.
61. Zemeckis DR, MJ Dean & SX Cadrin. 2014. Spawning dynamics and associated management implications for Atlantic cod (*Gadus morhua*). *N Am J Fishery Management* 34:424-442.

62. Zemeckis DR, WS Hoffman, M Dean, MP Armstrong & SX Cadrin. 2014. Spawning site fidelity by Atlantic cod (*Gadus morhua*) in the Gulf of Maine: implications for population structure and rebuilding. ICES J. Mar Sci 71: 1356-1365.
63. Zemeckis DR, D Martins, LA Kerr & S X Cadrin. 2014. Stock identification of Atlantic cod (*Gadus morhua*) in US waters: an interdisciplinary approach. ICES J. Mar. Sci. 71: 1490-1506.
64. Bethoney ND, KDE Stokesbury & SX Cadrin. 2013. Environmental links to alosine at-sea distribution and bycatch in the northwest Atlantic mid-water trawl fishery. ICES J. Marine Science 71: 1246-1255.
65. Hogan F, S Cadrin & A Haygood. 2013. Fishery management complexes: an impediment or aid to sustainable harvest? A Discussion Based on the Northeast Skate Complex. N. American J. Fishery Management 33: 406-421.
66. McBride RS, TE Vidal & SX Cadrin. 2013. Partial rebound in size and age at maturity by the northern (mid-Atlantic) stock of tilefish, *Lopholatilus chamaeleonticeps*, following a period of overfishing. Fishery Bulletin 111:161-174.
67. Miller AS, SX Cadrin & BG Stevens. 2013. Effects of shell disease on egg quality of the American lobster. J. Crustacean Biology 33: 461-469.
68. O'Keefe CE, SX Cadrin & KDe Stokesbury. 2013. Evaluating effectiveness of time/area closures, quotas/caps and fleet communications to reduce fisheries bycatch. ICES J Mar Sci 71: 1286-1297.
69. Radlinski MK, MA Sundermeyer, JJ Bisagni & SX Cadrin. 2013. Spatial and temporal distribution of Atlantic mackerel, *Scomber scombrus*, along the northeast coast of the United States, 1985-1999. ICES J Mar Sci 70: 1151-1161.
70. Wood AD & SX Cadrin. 2013. Mortality and movement of yellowtail flounder, *Limanda ferruginea*, tagged off New England. Fishery Bulletin 111:279-287.
71. Zhang Y & SX Cadrin. 2013. Estimating effective sample size for monitoring length distributions: a comparative study of Georges Bank groundfish. Trans. AFS. 142: 59-67.
72. Barkley, AS & SX Cadrin. 2012. Discard mortality estimation of yellowtail flounder using Reflex Action Mortality Predictors. Trans. AFS. 141: 638-644.
73. He P, C Glass, J Annala, S Cadrin, K La Valley & M Pol. 2012. Biology, harvesting, management and conservation of hakes. Fisheries Research 114: 1.
74. O'Boyle R, S Cadrin, D Georgianna, J Kritzer, M Sissenwine, M Fogarty, C Kellogg & P Fiorelli. 2012. Ecosystem – Based Fishery Management for the New England Fishery Management Council. In Ecosystems 2010: Global Progress on Ecosystem-based Fisheries Management, 26th Lowell Wakefield Fisheries Symposium. Alaska Sea Grant College Program (AK-SG-11-01).
75. Wiebe PH, B Rudels, SX Cadrin, KF Drinkwater, & A Lavin. 2012. Introduction to variability of the North Atlantic and its marine ecosystems. ICES J. Mar. Sci.: 69: 697-702.
76. Cadrin SX, S Mariani, C Pampoulie, L Kerr, J Reinert & C Stransky. 2011. Counter-comment on: Cadrin et al. (2010) "Population structure of beaked redfish, *Sebastes mentella*: evidence of divergence associated with different habitats." ICES Journal of Marine Science 68: 2016-2018.

77. DeCelles GR & SX Cadrin. 2011. An interdisciplinary assessment of winter flounder (*Pseudopleuronectes americanus*) stock structure. *J. Northwest Atl. Fishery Science* 43: 103–120.
78. Duffy WJ, RS McBride, SX Cadrin & K Oliveira. 2011. Is Cating's method of transverse groove counts to annuli applicable for all stocks of American shad? *Trans. AFS* 140:1023–1034.
79. Goethel D, TJ Quinn II & SX Cadrin. 2011. Incorporating spatial structure in stock assessment: movement modeling in marine fish population dynamics. *Reviews in Fisheries Science* 19:119–136. **[among the top 10 most cited papers in the Journal, which ranks third in CiteScore for the field of Aquatic Science and third in Journal Citation Reports Fisheries category]**
80. Roman S, SX Cadrin & N Jacobson. 2011. Examination of data collected by a fishermen self sampling program. *North American Journal of Fishery Management* 31:165–175.
81. Cadrin SX. 2010. Adaptive Governance: the dynamics of Atlantic fisheries management (book review). *Human Ecology* 38: 317-318.
82. Cadrin SX. 2010. Interdisciplinary Analysis of Yellowtail Flounder Stock Structure off New England. *Reviews in Fisheries Science* 18: 281–299.
83. Cadrin SX. 2010. Stock identification of marine populations. pp 219-231 In AMT Elewa, ed. Morphometrics for Non-Morphometricians. Springer-Verlag.
84. Cadrin SX, M Bernreuther, AK Daniélsdóttir, E Hjörleifsson, T Johansen, L Kerr, K Kristinsson, S Mariani, K Nedreaas, C Pampoulie, B Planque, J Reinert, F Saborido-Rey, T Sigurdsson & C Stransky. 2010. Population Structure of beaked redbfish, *Sebastes mentella*: evidence of divergence associated with different habitats. *ICES Journal of Marine Science* 67: 1617–1630.
85. DeCelles GR & SX Cadrin. 2010. Movement patterns of winter flounder in the southern Gulf of Maine: observations using passive acoustic telemetry. *Fishery Bulletin* 108: 408–419.
86. Kerr LA, SX Cadrin & DH Secor. 2010. Simulation modeling as a tool for examining the consequences of spatial structure and connectivity to local and regional population dynamics. *ICES J. Marine Science* 67: 1631-1639.
87. Kerr LA, SX Cadrin & DH Secor. 2010. The role of spatial dynamics in the stability, resilience, and productivity of an estuarine fish population. *Ecological Applications* 20: 497-507.
88. Runge JA, A Kovach, J Churchill, L Kerr, JR Morrison, R Beardsley, D Berlinsky, C Chen, S Cadrin, C Davis, K Ford, JH Grabowski, WH Howell, R Ji, R Jones, A Pershing, N Record, A Thomas, G Sherwood, S Tallack & D Townsend. 2010. Understanding climate impacts on recruitment and spatial dynamics of Atlantic cod in the Gulf of Maine: integration of observations and modeling. *Progress in Oceanography* 57: 251–263.
89. Begg GA & SX Cadrin. 2009. Stock identification. pp 230-253 in T Jakobsen MJ Fogarty, BA Megrey & E Moksness, Eds. Reproductive Biology of Fishes. Blackwell Publishing.
90. Cadrin SX & DH Secor. 2009. Accounting for spatial population structure in stock assessment: past, present and future. pp. 405-426 in BJ Rothschild & R Beamish, Eds. The Future of Fishery Science in North America. Springer Verlag.

91. Dankel DJ, N Jacobson, D Georgianna & SX Cadrin. 2009. Can we increase haddock yield within the constraints of the Magnuson-Stevens Act? *Fisheries Research* 100: 240–247.
92. Secor DH, LA Kerr & SX Cadrin. 2009. Connectivity effects on productivity, stability, and response diversity in an Atlantic herring metapopulation. *ICES Journal of Marine Science* 66: 1726–1732.
93. Cadrin SX & M Pastoors. 2008. Precautionary harvest policies and the uncertainty paradox. *Fisheries Research* 94: 367–372.
94. Brodziak J, SX Cadrin, CM Legault & SA Murawski. 2008. Goals and strategies for rebuilding New England groundfish stocks. *Fisheries Research* 94: 355–366.
95. He P, S Cadrin, K La Valley, M Pol, L Skrobe, P Winger, Eds. 2008. Haddock Conservation, Harvesting and Management; proceedings of Haddock 2007: International Symposium on Haddock Conservation, Harvesting and Management, 25–26 October 2007, Portsmouth NH USA *Fisheries Research* 94(2):119–206.
96. Reid DG, J Annala, S Rosen, M Pol, SX Cadrin & SJ Walsh. 2007. Current status of mobile and static sampling gears used in resource surveys. *ICES Journal of Marine Science* 64: 1607–1609.
97. Haas-Castro RE, TF Sheehan, SX Cadrin & JG Trial. 2006. Scale pattern analysis discriminates Atlantic salmon by river reach rearing origin. *North American Journal of Fisheries Management* 26:289–300.
98. Cadrin SX. 2005. Landmark morphometrics. pp 153–172 in SX Cadrin, KD Friedland & J Waldman, Eds. Stock Identification Methods. Elsevier Academic Press.
99. Cadrin SX & KD Friedland. 2005. Morphometric outlines. pp 173–184 in SX Cadrin et al. Eds. Stock Identification Methods. Elsevier Academic Press.
100. Cadrin SX, KD Friedland & J Waldman, Eds. 2005. Stock Identification Methods: applications in fishery science. Elsevier Academic Press. 719 pp.
101. Cadrin SX & VM Silva. 2005. Morphometric variation of yellowtail flounder. *ICES Journal of Marine Science* 62: 683–694.
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COURSES TAUGHT

- Stock Assessment of Fishery Resources SMAST MAR544 2006, 2007, 2008, 2009, 2012, 2013, 2015, 2016, 2018, 2020
- Stock Identification Methods SMAST MAR622 2006, 2008, 2010, 2014, 2016, 2018, 2020
- Fishery Management SMAST MAR527 2013, 2021
- Advanced Statistical Analysis SMAST MAR596 2008, 2016, 2017, 2021
- Field Methods for Fisheries Research SMAST MAR580 2017, 2018, 2019
- Stock Assessment Introduction ICES training program 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2017
- Advanced Population Modeling SMAST MAR599 2011, 2016, 2017
- Science Communication for Research Scientists SMAST MAR580 2017
- Advising Fishery Managers SMAST MAR580 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015
- Analysis of Tagging Data SMAST MAR549 2010

- Marine Resources Education Program, UNH-GMRI training course, 2002-2016
- Applications in Biological Statistics SMAST MAR599 2007
- Population Dynamics of Exploited Marine Resources, URI AFS592 2005
- Population Dynamics, SMAST MAR599 2003
- Fish Population Dynamics and Stock Assessment, Jackson State Univ. BIO492 2003-2004

SUPERVISED RESEARCHERS AND GRADUATE STUDENTS (with current positions)

Research Professors

1. Robert Griffin 2019-present, Fishery economics
2. Catherine O'Keefe 2014-2016, Bycatch avoidance and fishery monitoring (Principal Consultant, Fishery Applications Consulting Team)

Postdoctoral Researchers Supervised:

1. Lianne Allen-Jacobson 2021-present, Evaluating impact of offshore wind development on fisheries
2. Gregory DeCelles, SMAST 2014-2017, Industry-based surveys and bycatch avoidance (Fisheries Science Specialist, Orsted.)
3. Janne Haugen, SMAST 2019-2021, Analysis of fishery data to evaluate impact of offshore wind energy developments (Fishery Research Biologist, NOAA Fisheries Ecosystem Management)
4. Lisa Kerr, SMAST 2008-2012, Atlantic cod and tuna stock structure and simulation (Senior Research Scientist, Gulf of Maine Research Inst.)
5. Catherine O'Keefe 2013-2014, Bycatch avoidance and fishery monitoring (Principal Consultant, Fishery Applications Consulting Team)
6. Steven Searcy, SMAST 2006-2007, Groundfish study fleet and river herring stock composition (Assistant Professor, San Diego State University).
7. Anthony Wood, NOAA-NSF Fellow 2007-2009, Mark-recapture analysis of New England groundfish; SMAST 2009-2010 (Stock Assessment Scientist, Northeast Fisheries Science Center)
8. Doug Zemeckis, SMAST 2016-2017, cod spawning and groundfish discard mortality (Assistant Professor, Rutgers Univ.)
9. Yuying Zhang, SMAST 2009-2012, Sampling optimization of fisheries (Professor, Florida International Univ.)

PhD Students Supervised (8 current, 10 completed: ✓ – with post-graduate position in parentheses)

- ✓ Olanrewaju Alade, UMD Eastern Shore 2008 '*Movement and mortality of New England yellowtail flounder*'. NOAA Educational Partnership Program co-Advisor (stock assessment scientist, Northeast Fisheries Science Center).
- Cole Carrano, SMAST 2021-present, '*Alternative approaches to modeling survey indices in New England groundfish stock assessments*'
- ✓ Tobey Curtis, SMAST 2018, '*Seasonal distribution and migrations of basking sharks in the western Atlantic Ocean*' (Fishery Management Specialist, NMFS Atlantic Highly Migratory Species Management Division)
- ✓ Gregory DeCelles, SMAST 2013, '*Movements, spawning habitats and larval dispersal of winter flounder in the Gulf of Maine*' (stock assessment scientist, MA Marine Fisheries)
- Debra Duarte, SMAST 2017-present. '*Evaluating observer bias for monitoring fisheries*'
- Ben Galuardi, SMAST 2012-present, '*Movement of highly migratory fishes*'
- Max Grezlik, SMAST 2020-present, '*Standardized Catch Rates of New England Groundfish*'

- ✓ Daniel Goethel, SMAST 2014, '*A tag-integrated and spatially explicit stock assessment model of yellowtail flounder*' (stock assessment scientist, Alaska Fisheries Science Center)
- ✓ Val Hall, SMAST 2014, '*Ecological significance of fall spawning in the Nantucket bay scallop*' (research associate, Maria Mitchell Association)
- ✓ Alex Hansell, SMAST 2014-present, '*Standardized catch rates for assessment of data-limited fisheries*' (postdoctoral researcher, Gulf of Maine Research Institute)
- ✓ Janne Haugen, SMAST 2019 '*Assessment and Conservation of Porbeagles in the North Atlantic*' (Fishery Research Biologist, NOAA Fisheries Ecosystem Management)
- ✓ Fiona Hogan, SMAST 2012, '*Validated age of multiple species from the northeast skate complex*' (Research Director, Responsible Offshore Development Association)
- Emily Keiley, SMAST 2009-present '*Performance of New England Fisheries Management Systems*'
- ✓ Sean Lucey, SMAST 2011-present, '*Evaluating ecosystem-based management strategies*' (Fishery Research Biologist, Northeast Fisheries Science Center)
- Marjorie Lyssikatos, SMAST 2016-present '*Diet of Gray Seals*'
- Owen Nichols, SMAST 2007-present, '*Environmental effects on intra-annual variability in squid distribution in Nantucket Sound*'
- Brooke Lowman, SMAST 2016-present '*Application of fishery-dependent data in fishery assessment and management*'
- ✓ Doug Zemeckis, SMAST 2016 '*Behavior and movement patterns of an inshore spawning group of Atlantic cod in the western Gulf of Maine*' (Assistant Professor, Rutgers University)

MS Students Supervised (3 current, 16 completed: ✓ – with post-graduate or current position):

- ✓ Crista Bank, SMAST 2016, '*Age validation of monkfish*' (Fisheries Liaison, Vineyard Wind)
- ✓ Adam Barkley, SMAST 2011, '*Discard mortality estimation of yellowtail flounder using reflex predictors*' (Statistician, Blue Cross Blue Shield)
- ✓ Cassie Canastra, SMAST PSM 2020, '*Market analysis of yellowtail flounder*' (Marketing Director, New Bedford Fish Auction)
- ✓ Peter Chase, SMAST 2010, '*Morphometric stock identification of scup*' (Survey Branch Chief, Northeast Fisheries Science Center)
- Fiona Edwards, SMAST 2021-present '*Evaluating multispecies portfolio management for New England groundfish*'
- Alison Frey, SMAST 2020-present '*Spawning dynamics of Atlantic cod in southern New England*'
- ✓ Nikohl Jacobson, SMAST 2009, '*Mixed-species yield projections of New England groundfish*' (Research Assistant, UMass Dept. Fisheries Oceanography)
- ✓ Alicia Long (Miller), SMAST 2009, '*Affects of shell disease on fecundity of American lobster*' (Fishery Research Biologist, Northeast Fisheries Science Center)
- ✓ Jessica Melgey, SMAST 2010, '*A Petersen tagging experiment to estimate population size of yellowtail flounder in a closed area on Georges Bank*' (Fishery Analyst, Normandeau Associates)
- ✓ Molly Morse, SMAST 2016-2018, '*Modeling mixed Bluefin tuna stocks*' (Project Scientist, UC Santa Barbara Benioff Ocean Initiative)
- ✓ Adrienne Pappal, SMAST 2006 '*Habitat preferences of juvenile winter*' co-Advisor (Coastal Habitat and Water Quality Manager, MA Coastal Zone Management).
- ✓ Lucía Rueda, SMAST 2009, '*Environmental factors of loggerhead turtle distribution*' Fulbright Scholar (Research Scientist, Spanish Institute of Oceanography)

- ✓ Tiffany Vidal, SMAST 2009, '*Tilefish growth and maturity*' (Senior Fisheries Scientist, Pacific Community)
- ✓ Laurel Col, SMAST 2009 '*Marine mammal consumption on the northeast US continental shelf*' (Fishery Research Biologist, Northeast Fisheries Science Center)
- ✓ Jon Loehrke, SMAST 2006, '*Movement patterns of Atlantic cod*' (statistician, Fidelity Investments)
- Dave Martins, SMAST 2007-present '*Movement patterns of Atlantic cod from areas closed to fishing*'
- ✓ Sally Roman, SMAST, 2012, '*Modified Trawl Groundgear to Reduce the Catch Juvenile American Plaice*' (Research Technician, Virginia Institute of Marine Science)
- ✓ Stephanie Thompson, SMAST 2017, '*Impacts of the cape wind project on the fluke and squid trawl fishery in Nantucket Sound*'
- ✓ Brooke Wright, SMAST 2015 '*Factors of yellowtail flounder bycatch in the New England scallop fishery*' (SMAST technician and PhD student)

Graduate Committee Member, Examiner or Reviewer for graduated students

Graduated PhD Students

1. Hughues Benoit, Dalhause University, 2018 '*Quantitative approaches for the analysis of mortality in marine fish populations*'
2. David Bethoney, SMAST 2013, '*Bycatch of river herring in mid-water trawl fisheries*'
3. Jason Boucher, SMAST 2013 '*Interannual variability in larval retention and survival of haddock*'
4. Steve Eayrs, Univ. New Hampshire 2016 '*Managing change in fisheries*'
5. Sherri Eldridge, UMass Dartmouth 2018 '*Mechanisms of somatosensory reception in the skin of humpback whales*'
6. Micah Dean, Northeastern University 2021, '*The importance of heterogeneity in fishery and population processes for the Gulf of Maine stock of Atlantic cod*'
7. Jana del Favero, Univ. São Paulo 2016 '*Engraulis anchoita eggs and larvae in the Southeastern Brazilian Bight*'
8. Helena Geremont, Univ. Capetown 2014 '*Effective fisheries management with few data: a management procedure approach*'
9. Mark Henderson, Virginia Institute of Marine Science 2012, '*Movement and mortality of summer flounder*'
10. Lisa Kerr, University of Maryland 2008, '*Spatial structure of white perch in the Chesapeake Bay*'
11. Chang Liu, SMAST 2019, '*Geolocation methods for demersal fish species using archival tagging data*'
12. Stephen Midway, University of North Carolina 2013, '*Population ecology of southern flounder*'
13. Catherine O'Keefe, SMAST 2013, '*Bycatch avoidance of yellowtail flounder in the sea scallop fishery*'
14. Michael Pol, SMAST 2017, '*Establishing a sustainable Acadian redfish trawl fishery in the Gulf of Maine*'
15. Judith Rosellon Drucker, SMAST 2016 '*Describing echinoderm populations on Georges Bank and evaluating direct and indirect effects of marine protected areas on these populations*'
16. Daniel Ricard, Dalhousie University 2012, '*Ecology of heavily exploited fish populations*'
17. Camillo Saavedra, Universida de Vigo 2017, '*Multispecies population modelling of dolphins and European hake*'
18. Joseph Smith, UMass Amherst 2011, '*Connectivity of stream fish populations*'
19. Michelle Staudinger, UMass Amherst 2010, '*Predation of cephalopods*'
20. Robert Wildermuth, SMAST 2021, '*Supporting Integrated Ecosystem Assessment Under Model Structural Uncertainty*'

21. Margot Wilsterman, SMAST 2020 'Assessing swimming and reaction of windowpane flounder to reduce bycatch'

Graduated MS Students

1. Katie Anderson, UMass Amherst 2011, '*Spawning and sound production of haddock*'
2. Michelle Bachman, SMAST 2009, '*Determinants of yellowtail flounder bycatch in the scallop fishery*'
3. Nick Callabrese, SMAST 2018 '*Video trawl survey of cod in the Gulf of Maine*'
4. Kyle Cassidy, SMAST 2018 '*Decline of American lobster in Buzzards Bay, MA*'
5. Glenn Chamberlain, SMAST 2010, '*Photogrammetric system for sampling catches on otter trawl vessels*'
6. Brent Courchene, SMAST 2008, '*Ventless trap survey of American lobster*'
7. William Duffy, UMass Dartmouth Biology 2010, '*Age determination of American shad*'
8. Travis Lowery, SMAST 2018 '*Evaluation of a video trawl survey method*'
9. Michael Marino, SMAST 2007, '*Predation of sea scallops by sea stars*'
10. Peter Milligan, SMAST 2009, '*Larval dynamics of American lobster in Buzzards Bay Massachusetts*'
11. Mary Radlinski, SMAST 2009, '*Spatial distribution and thermal habitat of Atlantic mackerel*'
12. Sarah Pautzke, UMass Amherst 2008, '*Movement of striped bass in Plum Island Sound*'
13. Derek Perry, UMass Dartmouth Biology 2013, '*Feeding ecology of smooth dogfish in Buzzards Bay*'
14. Christopher Sarro, SMAST 2008, '*Shell height-meat weight relationships for Atlantic sea scallops*'
15. Liberty Schilpp, SMAST 2018 '*Variability in size-at-age and implications for modeling natural mortality in Northeast US groundfish stock assessments*'
16. Erin Snook, UMass Amherst 2013, '*Movement patterns of brook trout in a restored stream*'
17. Ashley Weston, SMAST 2018 '*Environmental effects on flatfish stock assessments*'
18. Steven Wilcox, UMass Dartmouth Biology 2012, '*Sexual maturity of the channeled whelk*'

PROFESSIONAL AND ADVISORY ACTIVITIES

- Hundreds of manuscripts reviewed for journal publication: Fisheries Research (2018 'outstanding reviewer' for top 10%ile of number of manuscripts reviewed in the last two years), ICES J Marine Science, Canadian J Fisheries & Aquatic Sci, Trans Am Fisheries Soc, N American J Fishery Management, Fisheries, Fishery Bull, Ecological Applications, Marine Ecology Progress Ser, Royal Society Proc B, Fisheries Oceanography, Marine Biology, Fish & Fisheries, Estuarine Coastal & Shelf Science, ...
- Massachusetts Ocean Plan, Fisheries Working Group 2013-present.
- Center for the Advancement of Population Assessment Methodology (CAPAM) Advisory Panel, 2013-present
- Responsible Offshore Science Alliance, Fisheries Monitoring Working Group, 2020-present
- Millstone Power Station Ecological Advisory Committee, 2017-present
- Saving Seafood Advisory Board, 2015-present
- U.S. Congressional Rep. Keating's Federal Fisheries Advisory Panel, 2012 to present
- Fisheries Research, Editor 2019-2021.
- International Flatfish Symposium, Local Organizing Committee, 2018-2021
- Northeast Regional Stock Assessment Workshop (SAW) Woods Hole MA
 - Cod Research Track Assessment Working group, 2021-2023
 - Chair, American Plaice Research Track Assessment Working Group, 2021-2022
 - Haddock Research Track Stock Assessment Working Group, 2020-2022

- Atlantic Cod Stock Structure Working Group, 2018-2020; Tagging sub-group lead
- Red Hake Stock Structure Working Group, 2019-2020
- Groundfish Operational Update Assessments Review Panel, 2019
- SAW63 Northeast Regional Stock Assessment Workshop, Black Sea Bass Working Group 2016
- 2016 Monkfish Operational Assessment Working Group
- Chair of Operational Assessment of 20 New England groundfish stocks, 2015
- Review panel chair for operational update assessments of winter flounder and pollock, 2014
- Chair, SAW50 Northern Demersal Working Group, 2010
- SAW38 Stock Assessment Review Committee, 2003
- SAW35 Stock Assessment Review Committee, 2002
- SAW33 Stock Assessment Review Committee, 2001
- SAW23 Stock Assessment Review Committee, 1996
- SAW21 Stock Assessment Review Committee, 1995
- Southern Demersal Working Group, 1995-2010
- SAW19 Stock Assessment Review Committee, 1994
- Northern Demersal Working Group, 1993-1996
- Invertebrate Working Group, 1992-2010
- Coastal/Pelagic Working Group, 1996-2010
- International Council for the Exploration of the Sea (ICES)
 - Stock Identification Methods Working Group, 1997-present, chair 2000-2007
 - Training Group, 2009-present, chair 2010-2016
 - Working Group on Offshore Wind Development and Fisheries, 2020-present
 - Workshop on Stock Identification of West of Scotland Cod, 2021
 - Chair, Workshop on North Sea Cod Stock Identification, 2020
 - Benchmark Workshop on North Sea Stocks, 2020-2021
 - Workshop on Graduate/Post Graduate Education Strategy to Meet Future ICES Advisory Needs, 2020
 - Co-Chair, Review Group for Arctic Fisheries, 2018
 - Co-Convener, Annual Science Conference open session on 'Strategic Initiative on Stock Assessment Methods' (Copenhagen Denmark, September 2017)
 - Co-Chair, Review Group for Celtic Sea stocks, 2017
 - Science Committee, 2008-2016
 - Journal of Marine Science Editor, 2014-2016
 - Co-Chair, Strategic Initiative on Stock Assessment Methods, 2010-2016.
 - Co-Chair, Review Group for Northwestern stocks, 2016
 - External Reviewer, Fifth Workshop on Quantitative Assessment Methodologies (Lisbon Portugal, 2015)
 - Co-Convener, Annual Science Conference theme session on 'Advancement of stock assessment methods for sustainable fisheries' (Copenhagen Denmark, September 2015)
 - Co-Chair, Review Group for North Sea and Skagerrak stocks, 2015
 - Chair, ICES Benchmark Workshop on West of Scotland herring (Dublin, Ireland, December 2014)
 - Co-Convener, Annual Science Conference open session on 'Advancement of Stock Assessment Methods to Support Sustainable Fisheries' (A Caruña Spain, September 2014)
 - Co-Chair, Review Group for the Bay of Biscay and Iberic Waters stocks, 2014

- Co-Convener, the World Conference on Stock Assessment Methods for Sustainable Fisheries (Boston MA, July 2013)
- Steering Committee, ICES/NAFO Symposium on Rebuilding Gadoid Fisheries (St. Andrews New Brunswick, October 2013)
- Co-Chair, Review Group for Arctic and Northwestern Atlantic stocks, 2013
- Co-Chair, Working Group on the Northwest Atlantic Regional Sea, 2009-2012
- Co-Chair, Review Group for Celtic Sea stocks, 2012
- Workshop on Benchmarking Integrated Ecosystem Assessments, co-chair (Halifax Nova Scotia, February 2011)
- Northwest Atlantic Fisheries Organization (NAFO)-ICES Symposium on “Hydrobiological and Ecosystem Variability 2000-2009” co-chair (Santander Spain, May 2011)
- Co-Chair, Review Group for Arctic and Northwestern Atlantic stocks, 2011
- Chair, Review Group and advice drafting group for North Sea stocks, 2010
- Chair, Workshop on Redfish Stock Structure (Copenhagen Denmark, January 2009)
- ICES external reviewer in ACOM Review Group for deep-sea and elasmobranch fisheries, 2008
- Convener, Annual Science Conference theme session on Stock Identification Applications (Helsinki Finland, September 2007)
- External reviewer, Review Group for pelagic redfish stock identity and surveys (Copenhagen Denmark, May 2007)
- External Reviewer, Review Group for North Sea stock assessments (Copenhagen Denmark, May 2007)
- External Reviewer, Review Group for mackerel, horse mackerel, sardine and anchovy stock assessments (Copenhagen Denmark, May 2006)
- Chair, Northwest Atlantic Stocks Review Group (Copenhagen Denmark, May 2005)
- Convener, Annual Science Conference theme session on Stock Identification Methods (Vigo Spain, September 2004)
- Chair, North Sea Demersal Stocks Sub-Group, (Copenhagen Denmark, May 2003)
- Chair, Herring Sub-Group, 2001-2002
- Chair, Northwestern Atlantic Stocks Sub-Group (Copenhagen Denmark, May 2000)
- Advisory Committee on Fisheries Management, 1998-2005
- International Commission for the Conservation of Atlantic Tunas (ICCAT) US Delegate
 - Bluefin Tuna Intersessional meeting, September 2021
 - Bluefin Tuna Assessment meeting August-September 2021
 - Bluefin Tuna Species Group, April 2021
 - Technical Subgroup on Eastern Bluefin Tuna Models, 2021-2022
 - Technical Subgroup on Western Bluefin Tuna Indices of Abundance, 2020-2021
 - Bluefin Tuna Species Group, July 2020
 - Bluefin Tuna Species Group, May 2020
 - Bluefin Tuna MSE Technical Group (St. Andrews New Brunswick, July 2019)
 - Bluefin Tuna Species Group (Madrid Spain, February 2019)
 - Atlantic Bluefin Tuna Stock Assessment (Madrid Spain, July 2017)
 - US Advisory Committee (Ft. Lauderdale FL, March 2017)
 - Atlantic Bluefin Tuna Stock Assessment Session (Madrid Spain, September 2014)
 - Meeting on Bluefin Stock Assessment Methods (Gloucester MA, July 2013)

- Working Group of Fisheries Managers and Scientists in support of the W-BFT stock assessment (Montreal Canada, June 2013)
- Bluefin Stock Assessment Meeting (Madrid Spain, September 2012)
- New England Fishery Management Council
 - Cod Stock Structure Planning Team, 2020-2021
 - Chair, Fishery Dependent Data for Stock Assessment Working Group, 2018-2019
 - Science and Statistical Committee, 2008 to 2017, chair 2009 to 2011
 - Overfishing Definition Review Panel, 1997-1998
- Southeast Data and Assessment Review
 - SEDAR 74 Gulf of Mexico Red Snapper Stock Identification Working Group, 2020-2021
 - SEDAR 68 Gulf of Mexico and Atlantic Scamp Stock Identification Working Group, 2019-2020
 - SEDAR 41 Red Snapper and Gray Triggerfish Review Workshop, 2016
 - Chair, SEDAR 32 Blueline Tilefish and Gulf of Mexico Menhaden Review Workshop, 2013
 - SEDAR 28 Cobia and Spanish Mackerel Review Workshop, 2012
 - SEDAR 25 Sea Bass and Golden Tilefish Review Workshop, 2011
- Atlantic States Marine Fisheries Commission
 - Peer Review Panel for the weakfish stock assessment, 2006
 - Northern Shrimp Technical Advisory Committee, 1996-2000
 - Atlantic Herring Technical Advisory Committee, 1996
 - Atlantic Menhaden Technical Committee, 1993-1996
- United Nations Food & Agriculture Organization:
 - External Reviewer for the Working Group on Stock Assessment of Demersal Species, Benchmark session for the assessment of European hake (Rome Italy, December 2019)
 - Technical Editor for “A third assessment of global marine fisheries discards” (2018)
 - Stock Assessment Consultant for the Eastern Central Atlantic Fishery Committee Scientific Sub-Committee (2017)
 - Stock Assessment Consultant for the Working Group on the Assessment of Small Pelagic Fish off Northwest Africa (Casablanca Morocco, July 2015)
 - External Reviewer for the Working Group on the Assessment of Small Pelagic Fish off Northwest Africa (Rome Italy, June 2015)
- American Fisheries Society, Convened Symposia
 - ‘Making Waves: Political Intervention in the Fisheries Science and Management Process’ (Atlantic City NJ, August 2018)
 - ‘Balancing Conservation and Utilization to Sustain Fisheries’ (Portland OR, August 2015)
 - ‘Are We Still Fishing Down the Food Web?’ (Quebec City Canada, August 2014)
 - ‘Comparing and Contrasting Fisheries Research and Management Paradigms Across Marine and Freshwater Ecosystems’ (St. Paul MN, August 2012)
 - ‘Evolutionary Ecology, Plasticity, and Adaptability of Fish Life Histories’ (Seattle WA, August 2011)
 - ‘Incorporating Environmental Factors in Stock Assessments’ (Nashville TN, August 2009)
 - ‘Monitoring and Managing Rapidly Recovering Fish Stocks’ (Lake Placid NY, August 2006)
- Massachusetts Marine Fisheries Institute, Workshop Convener (New Bedford MA)
 - Incorporating Environmental Variation in Stock Assessments (May 2013)
 - Reference Points and Uncertainty Buffers (November 2013)

- Fishery Monitoring and Survey Selectivity (February 2014)
- Transboundary Resources Assessment Committee (TRAC), 1998-2005, 2010, 2012-2014, 2017, 2020
- Convener, Workshop on Atlantic Bluefin Tuna Management Strategy Evaluation (New Bedford MA, April 2019)
- Gulf of Maine Research Institute, Scientific Advisory Committee (2011-2019, chair 2011-2017), Board of Directors (2011-2016)
- Inter-American Tropical Tuna Commission, External Review of Bigeye Tuna Stock Assessment, 2018
- South Atlantic Fishery Management Council, Science and Statistical Committee, 2010-2016
- Center for Sustainable Fisheries, Board of Directors 2013-2015, Executive Committee 2015, Senior Fellow
- Convener, AIFRB Symposium on 'The Relative Importance of Fishing and the Environment in the Regulation of Fish Population Abundance' (New Bedford MA, June 2012)
- Mid Atlantic Fishery Management Council, Annual Catch Limit Team, 2009 to 2011
- Northeast Fisheries Science Center, Annual Catch Limit Working Group, 2009 to 2011
- Peer Reviewer for Wageningen University Institute for Marine Resources and Ecosystem Studies, 2009
- Joint National Stock Assessment Workshop and National Economic and Social Sciences Workshop - Session Convener for Integrated Bioeconomic Modeling 2008
- Evaluation of Gulf of St. Lawrence shrimp fishery for certification by Marine Stewardship Council 2008
- Industry-Based Survey Design Subcommittee Chair 2004
- National Marine Fisheries Service, National Standard 1 Working Group, 2003
- Northeast Fisheries Science Center, Seminar Committee, 2003-2010, chair 2004-2005
- National Research Council Fellowship Advisor, October 2003-2010
- National Marine Fisheries Service, Northeast Regional Bycatch Assessment Team, April 2003-2010
- Groundfish Distribution and Stock Structure Workshop, Co-convener, Canada-USA Scientific Discussions, 2001
- Chesapeake Bay Commission Blue Crab Advisory Committee, 2000
- Northeast Fisheries Science Center, Research Council, 1998-2010
- 53rd Annual Northeast Fish & Wildlife Conference, Marine Program co-chair, 1997
- Massachusetts Division of Marine Fisheries, Technical Advisory Committee, 1993-1996; Chairman 1996

GRANTS AND CONTRACTS (over \$14M in grants since 2005)**last five years**

Title	Funding Source	Award	Year	role
Analysis of New England Groundfish Catch Rates	NOAA-CINAR	\$ 385,573	2020	PI
Impacts of Offshore Wind Energy using Fishery Data	NOAA-CINAR	\$ 112,709	2020	PI
Graduate Education Program	MFI	\$ 50,000	2020	PI
Multispecies Modeling in Fisheries Evaluation Workshop	NOAA-CINAR	\$ 29,562	2020	PI
Multispecies Modeling for Fishery Management	NOAA-CINAR	\$ 22,562	2020	PI
Climate Effects on New England Groundfish	MAMDF	\$ 15,900	2020	PI
Alternative Harvest Control Rules for New England Groundfish	NEFMC	\$ 12,128	2020	Co-PI
Estimating Growth and Movement of Monkfish	Monkfish RSA	\$ 270,000	2019	PI
Stakeholder Engagement in Management Strategy Evaluation	NOAA BTRP	\$ 141,143	2019	PI
Distribution of Atlantic Cod Spawning Aggregations on Cox Ledge	NOAA-CINAR	\$ 104,555	2019	PI
Vineyard Wind Monitoring Plan	VW	\$ 50,021	2019	PI
Graduate Education Program	MFI	\$ 50,000	2019	PI
Analysis of Groundfish Electronic Monitoring Data	NFWF	\$ 49,500	2019	PI
Robust Management Strategies for Northeast Groundfish	NOAA-COCA	\$ 43,335	2019	Co-PI
Ecosystem-Based Management Research Assistant	NOAA-CINAR	\$ 38,610	2019	PI
Choke Species in a Changing Climate	NOAA SK	\$ 21,582	2019	PI
Western Bluefin Tuna Indices of Abundance and Ocean Climate	NOAA BTRP	\$ 12,133	2019	PI
Investigating Population Structure of Cod	Canada DFO	\$ 3,378	2019	PI
Investigating the Stock Structure of Halibut	NOAA SK	\$ 85,362	2018	PI
Graduate Education Program	MFI	\$ 50,000	2018	PI
Electronic Monitoring of Groundfish Vessels	NFWF/CCCFA	\$ 40,000	2018	PI
Evaluating Management Procedures of Mixed Bluefin Tuna Stocks	NOAA BTRP	\$ 142,425	2017	PI
Factors Affecting Scallop Catch Rates	Scallop RSA	\$ 87,500	2017	PI
Estimating Growth and Movement of Monkfish	Monkfish RSA	\$ 270,000	2016	PI
2016 Scallop Bycatch Avoidance	Scallop RSA	\$ 155,190	2016	PI
Stock Assessment of Mixed Bluefin Tuna Stocks	NOAA	\$ 123,352	2016	PI
Fishery Catch Rates for New England Groundfish	NEFMC/GMRI	\$ 22,042	2016	PI
Bycatch Characterization of Scallop Dredges	CCCFA	\$ 21,000	2016	Co-PI
Determining Post-release Mortality of Cusk	NOAA SK	\$ 14,273	2016	PI
Intra-Stock Diversity of Atlantic Cod	NOAA SK	\$ 14,160	2016	PI
Operational Use of Otolith Chemistry	NOAA BTRP	\$ 9,608	2016	PI