
CURRICULUM VITAE

Dr. James Sulikowski (602-543-1214), School of Mathematical and Natural Sciences, New College of Interdisciplinary Arts and Sciences, Arizona State University's West Campus, Cell:603-767-1106, Email:james.sulikowski@asu.edu,

ACADEMIC TRAINING

Ph.D. Zoology, 2003	University of New Hampshire, NH
M.S. Physiology, 1998	DePaul University, IL
M.S. Marine Biology, 1996	Nova Southeastern University, FL
B.S. Biology, 1991	Denison University, OH

PROFESSIONAL HISTORY

2019-present	Professor and Associate Director, New College of Interdisciplinary Arts & Sciences, School of Mathematical & Natural Sciences, Arizona State University
2014-2019	Professor, University of New England
2010-2014	Associate Professor, University of New England
2006-2010	Assistant Professor, University of New England
2004-present	Adjunct Faculty, University of New Hampshire Animal and Nutritional Sciences
2004-2006	Senior Research Scientist, Florida Program for Shark Research, University of Florida
2003-2004	Postdoctoral Fellow, University of New Hampshire

ADMINISTRATIVE EXPERIENCE

Current: Associate Director of the School of Mathematical & Natural Sciences. In this position I work with the Director to provide administrative vision, leadership, and management for the School. In this position, I am responsible for managing 83 faculty and staff. **Past:** Served as chair and vice chair of the College of Arts and Sciences Faculty Assembly at the University of New England. Among other duties, in this position I served as liaison between the faculty and upper administration concerning faculty governance issues. I served as Chair of the Institutional Animal Care and Use Committee and the Academic Curriculum Committee. In these capacities, I had oversight of all activities involving research conducted on vertebrate animals at the University of New England as well as evaluating the undergraduate curriculum its effectiveness and plans for its improvement. In addition, I managed a staff of 20 including technicians and students and an externally funded budget that has averaged approximately USD \$800k annually since 2008. My team interacts with fishermen, fishery managers,

PUBLICATIONS

I have published 71 papers since 2006 (total of 91), averaging ~5 per year. Currently, I have 4 papers in review (not included below). For all publications, undergraduate and graduate student co-authors at the time of publication are listed in bold below.

1. Sherman, R.L., J.A. Sulikowski, and R.E. Spieler. 2000. Similarities and differences in fine gill vasculature among batoid elasmobranches. *American Zoologist* 40 (6): 1210-1210.
2. Sulikowski, J.A. and L. A. Maginniss. 2001. Effects of environmental dilution on body fluid regulation in the yellow stingray, *Urolophus jamaicensis*. *Comp. Bioch. Phys.* 128(2):223-232.
3. Sulikowski, J.A. 2002. Skates of the Western Gulf of Maine. Skate identification guide. Northeast Consortium and New Hampshire Sea Grant.
4. Sulikowski, J.A. and W.H. Howell. 2003. Body solute regulation in the winter skate, *Leucoraja ocellata*; the effects of reduced salinity environments. *Environ. Bio. Fish.* 66(4): 339-348.
5. Sulikowski, J.A., **M. D. Morin, S. H. Suk**, and W. H. Howell. 2003. Age and growth of the winter skate, *Leucoraja ocellata*, in the Gulf of Maine. *Fish Bull.* 101(2):405-413.
6. Sulikowski, J.A. and W.H. Howell. 2003. Ionic and hematological changes in the summer flounder (*Paralichthys dentatus*) associated with their movement from a recirculating system hatchery to an ocean net pen. *J. World. Aqua. Soc.* 34 (3): 387-397.
7. Sulikowski, J.A., P.C. Tsang and W.H. Howell. 2004. Annual changes in steroid hormone concentrations and gonad development in the winter skate, *Leucoraja ocellata*. *Mar. Bio.* 144:845–853.
8. Sulikowski, J.A., **J. Kneebone, S. Elzey**, P. Danley, W. H. Howell and P.C.W. Tsang. 2005. Age and growth estimates of the thorny skate, *Amblyraja radiata*, in the Gulf of Maine *Fish Bull.* 3(1):161-168.
9. Sulikowski, J.A., P.C.W. Tsang and W.H. Howell. 2005. Age and size at sexual maturity for the winter skate, *Leucoraja ocellata*, in the western Gulf of Maine based on morphological, histological and steroid hormone analyses. *Environ. Bio. Fish.* 72 (4): 429-441.
10. Sulikowski, J.A., E.A. Fairchild, **N. Rennels** and W.H. Howell. 2005. The effects of tagging and transport stress on juvenile winter flounder, *Pseudopleuronectes americanus*: implications for successful stock enhancement. *J. World. Aqua. Soc.*36(1):148-156.

11. Sulikowski, J.A., **J. Kneebone**, **S. Elzey**, P. Danley, W. H. Howell and P.C.W. Tsang. 2005. The reproductive cycle of the thorny skate, *Amblyraja radiata*, in the Gulf of Maine. Fish Bull. 103(3):536-543.
12. Sulikowski, J.A., D. Kulka and **T. Gedamke**. 2005 Smooth skate, *Malacoraja senta*. In: Sharks, rays and chimaeras: the status of the chondrichthyan fishes. Fowler, S.L., M. Camhi, G. Burgess, S. Fordham and J. Musick, eds. IUCN/SSG Shark Specialist Group. IUCN, Gland, Switzerland, and Cambridge, UK. 461 pgs.
13. Sulikowski, J.A., D. Kulka and **T. Gedamke**. 2005. Winter skate, *Leucoraja ocellata*. In: Sharks, rays and chimaeras: the status of the chondrichthyan fishes. Fowler, S.L., M. Camhi, G. Burgess, S. Fordham and J. Musick, eds. IUCN/SSG Shark Specialist Group. IUCN, Gland, Switzerland, and Cambridge, UK. 461 pgs.
14. Sulikowski, J.A., D. Kulka and **T. Gedamke**. 2005. Little skate, *Leucoraja erinacea*. In: Sharks, rays and chimaeras: the status of the chondrichthyan fishes. Fowler, S.L., M. Camhi, G. Burgess, S. Fordham and J. Musick, eds. IUCN/SSG Shark Specialist Group. IUCN, Gland, Switzerland, and Cambridge, UK. 461 pgs.
15. Sulikowski, J.A., D. Kulka and **T. Gedamke**. 2005. Thorny skate, *Amblyraja radiata*. In: Sharks, rays and chimaeras: the status of the chondrichthyan fishes. Fowler, S.L., M. Camhi, G. Burgess, S. Fordham and J. Musick, eds. IUCN/SSG Shark Specialist Group. IUCN, Gland, Switzerland, and Cambridge, UK. 461 pgs.
16. Sulikowski, J.A., E.A. Fairchild, **N. Rennels** and W.H. Howell. 2006. The effects of transport density on stress in juvenile winter flounder, *Pseudopleuronectes americanus*: implications for successful stock enhancement. J. World. Aqua. Soc. 37 (1): 107-112.
17. Carlson, J.K., J.A. Sulikowski and **I. Baremore**. 2006. Do differences in life history exist for blacktip sharks, *Carcharhinus limbatus*, from the United States south Atlantic Ocean and Gulf of Mexico. Environ. Bio. Fish. 77:279-292.
18. Sulikowski, J.A., **J. Kneebone**, **S. Elzey**, W.H. Howell and P.C.W. Tsang. 2006. Using the composite parameters of reproductive morphology, histology and steroid hormones to determine age and size at sexual maturity for the thorny skate, *Amblyraja radiata*, in the western Gulf of Maine. J. Fish. Bio. 69: 1449-1465.
19. **Piercy, A.**, J.K. Carlson, J.A. Sulikowski, and G.H. Burgess. 2007. A revised age and growth model for scalloped hammerhead, *Sphyrna lewini*, in the northwest Atlantic Ocean and Gulf of Mexico. Mar. Fresh. Res. 58: 34-40.
20. Sulikowski, J.A., **S. Elzey**, **J. Kneebone**, W. H. Howell and P.C.W. Tsang. The reproductive cycle of the smooth skate, *Malacoraja senta*, in the Gulf of Maine. Mar. Fresh. Res. 58: 98-103.

21. Sulikowski, J.A., W.B. Driggers, **T. S. Ford, R. Boonstra**, and J.K. Carlson. 2007. The reproductive cycle of the blacknose shark, *Carcharhinus acronotus*, in the Gulf of Mexico. *J. Fish. Bio.* 70:428–440.
22. Sulikowski, J.A., S. B. Irvine, **K. DeValario**, and J.K. Carlson, 2007. Age, growth and sexual maturity of the roundel skate, *Raja texana*, in the Gulf of Mexico. *J. Mar. Fresh. Res.* 58: 41-53.
23. Natanson, L.J., J.A. Sulikowski, **J. Kneebone, S. Elzey**, W. H. Howell and P.C.W. Tsang. 2007. Age and growth estimates for the smooth skate, *Malacoraja senta*, in the western Gulf of Maine. *Environ. Bio. Fish.* 80:293–308.
24. Sulikowski, J.A., W.B. Driggers, W., Ingram, **J. Kneebone, D.E Ferguson**, and P.C.W. Tsang. 2007. Profiling plasma steroid hormones: a non-lethal approach for the study of skate reproductive biology and its potential use in conservation management. *Environ. Bio. Fish.* 80:285–292
25. **Kneebone, J.**, J.A. Sulikowski, **D.E Ferguson**, and P.C.W. Tsang. 2007. Endocrinological investigation into the reproductive cycles of two sympatric skate species, *Malacoraja senta* and *Amblyraja radiata*, in the western Gulf of Maine. *Environ. Bio. Fish.* 80:257–265.
26. Ebert, D.A., and J.A. Sulikowski. 2007. Preface: Biology of skates. *Environ. Bio. Fish.* 80:107-110.
27. Driggers III, W.B., G. W Ingram Jr., M. A. Grace, J. K. Carlson, G. F. Ulrich, J. A. Sulikowski, and J. M. Quattro. 2007. Life history and population genetics of blacknose sharks, *Carcharhinus acronotus*, in the South Atlantic Bight and the northern Gulf of Mexico. Small Coastal Shark Data Workshop Document. SEDAR 13-DW-17:1-28.
28. Kulka, D.W., D. Swain, M.R Simpson, C.M. Miri, J. Simon, J. Gauthier, **R. McPhie**, J. A. Sulikowski and L. Hamiltom. 2007. Proceedings of the Review of DFO Science Information for Smooth Skate (*Malacoraja senta*) Relevant to Status Assessment by COSEWIC. CSAS Proceedings Series 2006/030, pgs 1-66.
29. Janech, M.G, Gefroh, H., Cwengros, E.E., Sulikowski, J.A., Ploth, D.W., and Fitzgibbon W.R. 2008. Cloning of Urea Transporters from the Kidneys of Two Batoid Elasmobranchs: Evidence for a Common Elasmobranch Urea Transporter Isoform. *Mar Biol* 153:1173–1179.
30. Fairchild, E.A., J.A. Sulikowski, N. Rennels, W.H. Howell, and **C.W.D. Gurshin**. 2008. Distribution of winter flounder, *Pseudopleuronectes americanus*, in the Hampton-Seabrook Estuary, New Hampshire: observations from a summer field study. *Estuaries Coasts*, 31 (6)1158-1173.
31. **Cicia, A. M**, W.B. Driggers, G. W. Ingram Jr., J. Kneebone, P.C.W. Tsang, Koester, D., and J.A. Sulikowski. 2009. Age and size at sexual maturity for Little Skate, *Leucoraja erinacea*,

in the western Gulf of Maine based on estimates of three parameters. J. Fish Bio. 75, 1648–1666.

32. **Wargo, A.**, C.E. Tilburg, W.B. Driggers, and J.A. Sulikowski. 2009. Observations on the Distribution of Ichthyoplankton within the Saco River Estuary System. Northeast Naturalist. 16 (4), 647-654.
33. Sulikowski, J.A., **A.M. Cicia, S. Elzey, J. Kneebone**, W. H. Howell and P.C.W. Tsang. 2009. Age and size at sexual maturity for the smooth skate, *Malacoraja senta*, in the western Gulf of Maine. J. Fish Bio. 75 (10), 2832-2838.
34. Fairchild, E.A., J.A. Sulikowski, N. Rennels, W.H. Howell, and P.C.W Tsang. 2009. Effects of moving acclimation cages before release of cultured fish: alternate release strategies for a juvenile winter flounder *Pseudopleuronectes americanus* stock enhancement effort. Aqua. Res., 1-5.
35. Hoffmayer, E.R., Sulikowski, J.A., Hendon, J.M. and Parsons, G.R. 2010 Plasma steroid concentrations of adult male Atlantic sharpnose sharks, *Rhizoprionodon terraenovae*, in the northern Gulf of Mexico, with notes on potential long term shifts in reproductive timing. Exp. Bio. Fish. 88:1–7.
36. Fairchild, E.A., J.A. Sulikowski, N. Rennels and W.H. Howell. Post-release site fidelity and diet of cultured juvenile winter flounder *Pseudopleuronectes americanus* released into the Hampton-Seabrook Estuary, New Hampshire, USA. 2010. Accepted: J. World. Aqua. Soc.
37. Sulikowski, J.A. W.B. Driggers, G. W. Ingram Jr., **W. Buble, N. Furey**, and P.C.W.Tsang. 2010. New Insights into the movement patterns and depths preferences for spiny dogfish in the Northwest Atlantic. Mar. Ecol. Prog. Ser. Vol. 418: 249–254.
38. **Furey, N.B** and J.A. Sulikowski. 2011. The fish assemblage of the Saco River estuary: a small volume, low salinity estuary with little vegetation. Northeast Naturalist, 18(1):37–44
39. Sulikowski, J.A., **L. J. Williams**, and M. L. Domeier. 2011. The potential use of non-lethal techniques to assess the reproductive biology of the white shark, *Carcharodon carcharias*. In Global Perspectives on the Biology and Life History of the Great White Shark, ed. Michael L. Domeier, CRC Press, Boca Raton, FL, 467-478.
40. Hammerschlag, N and J.A. Sulikowski. 2011. Killing for Conservation: Assessing the Need for Lethal Sampling of Apex-predatory Sharks. End. Spec. Res. Vol. 14: 135–140.
41. **Palm, B.**, D.M Koester, W. B. Driggers III, and J.A. Sulikowsk. 2011. Variability in little skate, *Leucoraja erinacea*, gestation and survival rates; implications for management and sustainability in the Northwest Atlantic. Env. Bio. Fish. 92 (4), pg. 585-589.

42. Spieler, R.E., **D. P. Fahy**, R. L. Sherman, J. A. Sulikowski, and T. P. Quinn. 2011. The Yellow Stingray, *Urobatis jamaicensis* (Chondrichthyes: Urotrygonidae): a synoptic review. *Car. J. of Sci.* 47(1)
43. **Williams, L.J., A.M. Cicia, K. Smith** and J.A. Sulikowski. 2011. The reproductive biology of the roundel skate, *Raja texana*, in the Gulf of Mexico. *J. Fish. Bio.* 79 (1) 298–305.
44. **Cicia, A. M., L. Schlenker**, J. A. Sulikowski and J. W. Mandelman. 2011. The seasonal blood biochemical status of the little skate, *Leucoraja erinacea*, exposed to graded bouts of aerial exposure. *J. Com. Phys. Part A* 162, 130–138
45. **Bubley, W.J., J. Kneebone**, J.A. Sulikowski, and P.C.W. Tsang. 2012. Reassessment of Spiny Dogfish, *Squalus acanthias*, Age and Growth Using Vertebrae and Dorsal Fin Spines. *J. Fish. Bio.* 80 (5) pages 1300–1319.
46. Sulikowski, J.A., **B K. Prohaska, A. E. Carlson, A.M. Cicia**, C. T. Brown, and A. C. Morgan. 2012. Observations of neonate spiny dogfish, *Squalus acanthias*, in Southern New England: A first account of a potential pupping ground in the Northwestern Atlantic. *Fish Res.* 137, 59–62
47. Başusta, N, and J.A. Sulikowski. The oldest estimated age for the rough-tail stingray (*Dasyatis centroura* (Mitchill,1815) from the Mediterranean Sea. 2012. *J. Applied Ichthy.* 28 (4), 641–642.
48. Başusta, A., E. I. Ozer, J. A. Sulikowski, and N. Başusta. 2012. First record of gravid female and neonate Lusitanian cownose ray, *Rhinoptera marginata*, from the eastern Mediterranean sea. *J. Applied Ichthy*, 28 (4), 643–644.
49. Mandelman, J.W., **A.M. Cicia**, and J.A. Sulikowski. 2012. The immediate and short-term post-release mortality of species in the Northwest Atlantic Skate Complex captured by gillnet and otter-trawl. Final Technical Report to NOAA. Saltonstall-Kennedy Grant Program # NA08NMF4270418.
50. Mandelman, J.W. **A.M. Cicia**, G.W. Ingram Jr., W.B. Driggers III, **K.M. Coutre**, J.A. Sulikowski. 2012. Short-term post-release mortality of skates (family Rajidae) discarded in a western North Atlantic commercial otter trawl fishery. *Fish Res.* 139, 76–84
51. **Williams, L.J., A.M. M. D. Campbell P. C. W. Tsang**, and J A. Sulikowski. 2013. Using estradiol and progesterone concentrations to assess individual variability in the reproductive cyclicality of captive female little skates, *Leucoraja erinacea*, from the western Gulf of Maine. *Fish Phy. Biochem.* DOI 10.1007/s10695-012-9766-2.
52. **Little, L. E.**, M. Keiffer, G.S. Wippelhauser, G.B. Zydlewski, M.T. Kinnison, and J.A. Sulikowski. 2012. First Documented Occurrences of the Shortnose Sturgeon (*Acipenser brevirostrum*) in the Saco River, ME. DOI: 10.1111/jai.12159

53. **Bubley, W.J.**, J.A. Sulikowski, D. M. Koester, and P. C. W. Tsang. 2013. Using a multi-parameter approach to reassess maturity of spiny dogfish, *Squalus acanthias*, following increased fishing pressure in the Western North Atlantic. *Fish. Res.* (147) 202–212.
54. Hoffmayer, E.R., W. B. Driggers III, **L. M. Jones**, J.M Hendon, and J.A. Sulikowski. 2013. Variability in the Reproductive Biology of the Atlantic Sharpnose Shark in the Gulf of Mexico. *Mar. and Coast. Fish.* 5 (1) 139-151.
55. **Prohaska, B.K.**, P. C. W. Tsang, W. B. Driggers III, E. R. Hoffmayer, and J. A. Sulikowski. 2013. Development of a Non-lethal and Minimally Invasive Protocol to Study Elasmobranch Reproduction. *Mar. and Coast. Fish.* (5) 181-188.
56. **Coutré, K.**, T. Gedamke, D. B. Rudders, W.B. Driggers III, D. M. Koester and J. A. Sulikowski. 2013. Indication of density dependent changes in growth and maturity of the Barndoor skate, *Dipturus laevis* on Georges Bank. *Mar. and Coast. Fish.*5 (1) 260-269.
57. **Prohaska, B.K.**, P. C. W. Tsang, W. B. Driggers III, E. R. Hoffmayer, **Carolyn R. Wheeler**, A. Christine Brown and J. A. Sulikowski. 2013. Assessing reproductive status in elasmobranch fishes using steroid hormones extracted from skeletal muscle tissue. *Conser. Physiol.* (1) 1-12.
58. **Carlson A.E.**, Hoffmayer E, Tribuzio CE, Sulikowski JA. 2014. The Use of Satellite Tags to Redefine Movement Patterns of Spiny Dogfish (*Squalus acanthias*) along the U.S. East Coast: Implications for Fisheries Management., *PloS One*. DOI: 10.1371/journal.pone.0103384.
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60. Morgan, A. C., and Sulikowski., J.A. 2015. The role of spiny dogfish in the Northeast United States continental shelf ecosystem and how it has changed over time. *Mar. and Fresh. Res.* 167:260–277.
61. Benoît, H.P., **Capizzano, C.**, **Knotek, R.K.**, Dean, M.K., Goldman, K.J. Mandelman, J.W., Rudders, D.B., and Sulikowski J.A., 2015. A generalized model for longitudinal short- and long-term mortality data for commercial fishery discards and recreational fishery catch-and-releases. *ICES J. Mar. Sci.* doi:10.1093/icesjms/fsv039.
62. **Knotek R.J.**, Gill S.M., Rudders D.B., Mandelman J.W., Benoît H.P., and Sulikowski J.A. 2015. The development of a refrigerated flow-through seawater system for at sea operation and estimation of post-release mortality. *J. Fish. Res.* 170, 152–157.
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Kennebec System and response to dam removal. *Trans. Am. Fish. Soc.* 144:4, 742-752., DOI: 10.1080/00028487.2015.1037931

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65. **Capizzano C.W.**, Mandelman J.W., Hoffman W.S, Dean M.J, Zemeckis D.R, Benoît HP, Stettner M.J., Kneebone J., Buchan N.C., **Langan J.A.**, and Sulikowski J.A. 2016. Estimating and mitigating post-release mortality of Atlantic cod in the Gulf of Maine’s recreational rod-and-reel fishery. *ICES*, 72(9), 2342-2355.
66. **Rudnický, B.R.**, **Smith K.M.**, and Sulikowski, J.A. 2016, First Observation of YOY *Paralichthys dentatus* (Summer Flounder) in a Southern Maine Estuary. *N. E. Naturalist.* 23 (1), N1-N3. <http://dx.doi.org/10.1656/045.023.0108>
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71. **Novak, A.J.**, A. E. Carlson, **C. R. Wheeler**, G.S. Wipplehauser, and J. A. Sulikowski. 2017. Critical foraging habitat of Atlantic Sturgeon based on feeding habits, prey distribution, and movement patterns in the Saco River estuary, Maine. *Trans Am. Fish. Soc.* 146:2, 308-317.
72. Sulikowski, J.A., Benoit, H.P., **Capizzano,C.W.**, **Knotek, R.J.**, Mandelman, J.W., Platz, T., and Rudders, D.B. 2017. Evaluating the condition and discard mortality of winter skate, *Leucoraja ocellata*, following capture and handling in the Atlantic monkfish sink gillnet fishery. *J. Fish. Res.* 198:159-164.
73. **Knotek R.J.**, Rudders D.B, Mandelman J.A, Benoît HP, and Sulikowski J.A. 2017. The survival of rajids discarded in the New England scallop dredge fishery. *J. Fish. Res.* 198:50-62.

74. **Hayne, A.H.P.**, G.R. Poulakis, J.C. Seitz, and J.A. Sulikowski. 2018. Preliminary age estimates of female southern stingrays (*Hypanus americanus*) from southwestern Florida, USA. *Gulf and Carib. Res.* DOI: 10.18785/gcr.2901.03.
75. **Hodgdon C.**, Tennenhouse C., Koh Woon Yuen, Fox J., Sulikowski, J. 2018. Shortnose Sturgeon (*Acipenser brevirostrum*) of the Saco River Estuary: An Assessment of Critical Habitat. *J. Appl. Ichthy.* DOI: 10.1111/jai.13697
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79. **Hylton, S., Weissman, A.**, Sulikowski, J. 2018. Identification of potential wintering habitat for threatened Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in Saco Bay, Maine.. *Endangered Species Conservation.* Vol. 37: 249–254.
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85. **Schwieterman, G.D.; Crear, D.P.; Anderson, B.N.;** Lavoie, D.R.; Sulikowski, J.A.; Bushnell, P.G.; Brill, R.W. 2019. Combined Effects of Acute Temperature Change and Elevated $p\text{CO}_2$ on the Metabolic Rates and Hypoxia Tolerances of Clearnose Skate (*Rostaraja eglanteria*), Summer Flounder (*Paralichthys dentatus*), and Thorny Skate (*Amblyraja radiata*). *8(3)*, 56; <https://doi.org/10.3390/biology8030056>
86. Sulikowski, J.A., Golet, W., Hoffmayer, E.R., Driggers W.B., Natanson, L.J., Carlson, A., and **Sweezy, B.A.**, 2019. Quantifying post-release mortality for dusky sharks, *Carcharhinus obscurus*, captured in the US pelagic longline fishery. *Fisheries Research*. <https://doi.org/10.1016/j.fishres.2019.105341>.
87. Driggers W.B., Campbell, D.M., Jones, C.M., Hannon, K.M., Hoffmayer, E.R., Sulikowski, J.A. 2020. Spatial variability in the fecundity of Atlantic sharpnose sharks (*Rhizoprionodon terraenovae*) in the northern Gulf of Mexico. *Fish. Bull.* 118:51–62.
88. **Anderson, B.**, Mandelman, J.W., Platz, T., and Rudders, D.B. and Sulikowski, J.A. 2020. Bycatch in a commercial lobster fishery – impacts on two benthic predators, Sea Raven and Longhorn Sculpin. *Marine and Coastal Fisheries*. 12:113–123.
89. **Verkamp H.J.**, Skomal ,G., Winton. M., and Sulikowski, J.A. *Accepted*. First observations of reproductive hormone concentrations in white shark (*Carcharodon carcharias*) skeletal muscle tissue. *Marine Ecology Progress Series*.
90. **Hammer, L.J.**, Furey N.B., Sulikowski, J.A. *Accepted*. Using Telemetry to Monitor Movements and Habitat Use of Juvenile Winter Flounder (*Pseudopleuronectes americanus*) in a Southern Maine Estuary. *Northeast Naturalist*.
91. **Flanigan, A.J.**, Perlut, N.G., and Sulikowski, J.A. Preliminary Population Estimate of Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*) Within a Semi Closed Riverine System. *Accepted*. *J. NW Atl. Fish. Sci.*

GRANTS AND FUNDING

Since 2006, my colleagues and I have been awarded ~\$13,400,000 in total research support, of which ~\$6,600,000 has come directly to my Home Institution .

PENDING

I have submitted proposals totaling over \$1,000,000 in external funding for 2019-2020 RFP's .

CURRENT

- 2020-2022 The use of novel fishery-independent tagging technology to investigate the movements and stock structure of adult Monkfish (*Lophius americanus*) along the United States East Coast. NOAA/NMFS Monkfish Research Set-Aside Program valued at 4,100,000 to fishery, ASU portion \$317,000
- 2019-2021 Quantifying and reducing post-release mortality of shortfin mako sharks (*Isurus oxyrinchus*) captured as bycatch in pelagic long-line fisheries. NOAA/NMFS BREP in the amount of \$199,000. CO-PI Mike Byrne U. Missouri.
- 2018-2021 Development of a histological protocol for the age determination of monkfish, *Lophius americanus*: NOAA/NMFS Monkfish Research Set-Aside Program valued at \$2,100,00 to fishery, ASU portion \$166,000.
- PAST
- 2017-2019 Evaluating the Condition and Discard Mortality of monkfish Following Capture and Handling in the Sea Scallop Dredge Fishery: Scallop Research Set Aside Program: NOAA/NMFS in the amount of \$1,541,000; CO-PI: Dave Rudders (VIMS).
- 2017-2019 Evaluating the life history and stock structure of yellowfin tuna (*Thunnus albacares*) in the northwest Atlantic Ocean. NOAA/NMFS SK in the amount of \$299,000. CO-PI: Walt Golet (GMRI).
- 2015-2018 Determining the discard mortality rate and best capture-handling methods for Atlantic cod (*Gadus morhua*) captured in the Gulf of Maine commercial lobster industry. NOAA/NMFS BREP in the amount of \$244,000.
- 2016-2018 Quantifying and reducing post-release mortality for Barndoor skates discarded in the commercial gillnet fishery. NOAA/NMFS BREP in the amount of \$199,000.
- 2015-2018 Improving the management of an overfished, data poor species: Investigating the movements and stock structure of thorny skates using novel fishery-independent tagging technology. NOAA/NMFS SK in the amount of \$320,000. CO-PIs: John Mandelman and Jeff Kneebone (NEAQ).
- 2015-2018 Quantifying and reducing post-release mortality for Dusky sharks discarded in the commercial pelagic longline fishery. NOAA/NMFS BREP in the amount of \$249,000. CO-PI: Walt Golet (GMRI).
- 2015-2017 Biological Sampling to Determine Age and Growth of Atlantic Bluefin Tuna in the NW Atlantic III. NOAA/NMFS in the amount of \$220,000. UNE portion \$34,105. CO-PI: Walt Golet (GMRI).
- 2014-2016 Evaluating the Condition and Discard Mortality of Skates Following Capture and Handling in the Sea Scallop Dredge Fishery: Scallop Research Set Aside Program:

NOAA/NMFS in the amount of \$1,657,181; UNE portion \$261, 000 CO-PI: Dave Rudders (VIMS) and CO-PI John Mandelman (NEAQ).

- 2014-2016 Evaluating the Condition and Discard Mortality of Winter Skate, *Leucoraja ocellata*, Following Capture and Handling in the Sink Gillnet Fishery: NOAA/NMFS Monkfish Research Program in the amount of \$1,700,000.
- 2013-2015 Biological Sampling to Determine Age and Growth of Atlantic Bluefin Tuna in the NW Atlantic II. NOAA/NMFS in the amount of \$220,000. UNE portion \$34,105 CO-PI: Walt Golet (GMRI).
- 2012-2015 Evaluating the Condition and Discard Mortality of Skates Following Capture and Handling in the Sea Scallop Dredge Fishery: Scallop Research Set Aside Program: NOAA/NMFS in the amount of \$1,092,643; UNE portion \$127, 000 CO-PI: Dave Rudders (VIMS) and CO-PI John Mandelman (NEAQ).
- 2013-2014 Biological Sampling to Determine Age and Growth of Atlantic Bluefin Tuna in the NW Atlantic. NOAA/NMFS in the amount of \$220,000. UNE portion \$34,105 CO-PI: Walt Golet (GMRI).
- 2012-2014 Elucidating post-release mortality and "best capture and handling" methods in sublegal Atlantic cod discarded in Gulf of Maine recreational hook fisheries. Bycatch Reduction Program: NOAA/NMFS in the amount of \$260, 159; UNE Portion, \$71,000. CO-PI: John Mandelman (NEAQ).
- 2011-2013 The use of settlement collectors to investigate the early life history of Atlantic wolfish (*Anarhichas lupus*) and Cusk (*Brosme brosme*) in the Gulf of Maine. Funding source: NOAA/NEC development grant in the amount of \$33,847.
- 2011-2013 The development of a non-lethal and non-invasive protocol to study elasmobranch reproduction. Funding Source: Save our Seas Foundation in the amount of \$20,000.
- 2011-2013 A Cooperative Approach to Updating and Investigating Anomalies in Critical Life History Parameters of Two Exploited Shark Species, Blacknose (*Carcharhinus acronotus*) and Finetooth (*Carcharhinus isodon*), in the Northern Gulf of Mexico: Information Essential to Fisheries Management: NOAA/ CRP in the amount of \$130,097; UNE portion \$48, 875. CO-PI Eric Hoffmayer, University of Southern Mississippi.
- 2011-2013 The development of a non-lethal and non-invasive protocol to study elasmobranch reproduction. Funding Source: Save our Seas Foundation in the amount of \$20,000.
- 2011-2012 Menhaden Aerial Survey in the Northern Portion of Their Range. Industry funded (OMEGA Protein) in the amount of \$250,000.
- 2010-2013 Dismissing Dogma II: The Use of Satellite Tags to Examine the Behavior of Spiny

- Dogfish (*Squalus acanthias*) in Relation to Habitat Use, Depth Preferences and Movement Patterns in the Northwest Atlantic. Funding source: NOAA S & K in the amount of \$100,000. PI.
- 2010-2014 Connectivity and demographic correspondence among sturgeon stocks in Maine (and Beyond). Funding source: NOAA Section 6 in the amount of \$1,319,479. UNE portion \$384,000. Co-PI's: Gail S. Wippelhauser, Maine DMR; Michael T. Kinnison and Gayle B. Zydlewski, UMaine Orono.
- 2010-2013: Temporal aspects of habitat utilization and interspecies competition: defining the ecological impacts of spiny dogfish in structuring the ecosystem dynamics of southern New England. Funding source: Commercial Fisheries Research Foundation in the amount of \$194,000. PI.
- 2009-2013 Dismissing Dogma: The Use of Satellite Tags to Examine the Behavior of Spiny Dogfish (*Squalus acanthias*) in Relation to Habitat Use, Depth Preferences and Movement Patterns in the Northwest Atlantic. Funding source: NOAA S & K in the amount of \$237,000.
- 2008-2009 Habitat Utilization and Biological Characteristics of Atlantic Sturgeon, *Acipenser oxyrinchus oxyrinchus*, in The Saco River Lower Watershed. Funding source: NOAA in the amount of \$49,087.00.
- 2008-2011 The Immediate and Short-Term Post-Release Mortality of Species in the Northwest Atlantic Skate Complex Captured by Gillnet and Otter-Trawl. Co-PI: John Mandelman. Funding source: NOAA S & K in the amount of \$247,000. UNE Portion \$150,000.
- 2008-2009 Spatial and Temporal Variability of the Planktonic Community of Saco Bay: Relationships with the Physical Flow Field. Co-PI: Charles Tilburg. Funding source: Maine Sea Grant in the amount of \$1,800.00.
- 2007-2008 The design, development, and field testing of an innovative circular net pen to be used to asses bycatch mortality of Atlantic cod at sea. Co-PI: John Mandelman. Funding source: The Northeast Consortium in the amount of \$25,000.
- 2006-2008 Field Testing of a novel application to examine habitat use and migration patterns of spiny dogfish (*Squalus acanthias*) in the Western Gulf of Maine. Funding source: The Northeast Consortium in the amount of \$ 23,940.
- 2006-2007 Using New Approaches to Update and Collect Fisheries Specific Data on Age Determinations of the Spiny Dogfish in the Gulf of Maine. Co-PI: Paul Tsang and Dave Koester. Funding Source: New Hampshire in the amount of \$132,399.
- 2005-2006 Tracking the Movements of Bull Sharks in the Gulf of Mexico Using Pop-Up Satellite Archival Transmitters (PSAT Tags). Funding source: Florida Institute of Oceanography in the amount of \$ 40,000.

- 2005-2006 Identification of Ray Migration Patterns in. Funding source: Disney Wildlife Fund in the amount of \$ 18,250.
- 2005-2006 Developing new techniques to age batoid elasmobranchs. Funding source: New Hampshire in the amount of \$5000.
- 2005-2006 Life history changes in an exploited skate species (*Amblyraja radiata*) within the Gulf of Maine: Determining new strategies for their fisheries management Co-PI: Paul Tsang. New Hampshire in the amount of \$75,000.
- 2001-2004 East Consortium- Identification of Life History Parameters for Two Exploited Skate Species (*Amblyraja radiata* and *Malacora senta*) in the Gulf of Maine: Strategies for Fisheries Management. Co-PI: Paul Tsang, and Joe Jurek. Funding source: The Northeast Consortium in the amount of \$200,000.
- 2001-2002 Sea Grant Development Grant-Assessing the population genetics of the Winter Skate, *Leucoraja ocellata*, in the Gulf of Maine. Co-PI: Pat Danley and Hunt Howell Funding source: New Hampshire Sea Grant in the amount of \$5,125.
- 2010-2011 The use of settlement collectors to investigate the post settlement fauna of the Saco Bay Estuary. CAS faculty development grant in the amount of \$2,000.
- 2008-2009 Behavioral Responses of Ichthyoplankton to Rates of Salinity Change: Creating a Predictive Model. Co-PI: Charles Tilburg. Marine Science Center Summer Fellowship in the amount of \$8,500.
- 2008-2009 Identification of the Ichthyoplankton Community in Saco Bay: CAS faculty development grant in the amount of \$2,000.
- 2008-2009 Evaluating the Saco Bay estuary system and its potential use as a nursery ground for inshore macrofaunal species. Co-PI Nathan Furey (undergraduate). Provost's Faculty Grant Program in the amount of \$2,000.
- 2007-2008 Spatial and Temporal Variability of the Planktonic Community of Saco Bay: Relationships with the Physical Flow Field. Co-PI: Charles Tilburg. Marine Science Center Summer Fellowship in the amount of \$8,000.
- 2006-2007 Developing new approaches to quantify discard mortality rates of Atlantic cod, *Gadus morhua*, in the Gulf of Maine multispecies trawl fishery. University of New England Mini Grant in the amount of \$1,700.00.
- 2002-2003 University of New Hampshire Dissertation Fellowship in the amount of \$ 11,750
- 2002-2004 Preliminary examination of possible life history changes in an exploited skate species (*Amblyraja radiata*) in the Gulf of Maine. Co-PI: Paul Tsang. Funding

source: Hubbard Endowment in the amount of \$8,000.

- 1999-2002 Seasonal gonadal activity, reproductive status and length at maturity in the Winter Skate, *Leucoraja ocellata*. Co-PI: Hunt Howell. Funding source: Center for Marine Biology in the amount of \$1,000.00.
- 1999-2002 Assessing, Life History and Ecology of the Winter Skate, *Leucoraja Ocellata*. Co-PI: Hunt Howell. Funding source: Center for Marine Biology in the amount of \$2,000.
- 1999-2002 Assessing the Reproduction, Life History and Ecology of the Winter Skate, *Leucoraja Ocellata*. Co-PI: Hunt Howell. Funding source: Hubbard Endowment in the amount of \$8,000.
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INVITED LECTURES & PRESENTATIONS

3 organized symposium.

100+ interviews on mass media including the BBC, National Geographic, the ABC Ocean Mysteries Series, the today show, and shark.

50 invited lectures on subjects including fishery management, shark biology, and conservation; given to academic, government and industry audiences.

170+ conference presentations in the USA, Canada, Mexico, and Europe including the American Elasmobranch Society, the American Fisheries Society, International White Shark Symposium, International Council for the Exploration of the Sea (details are given provided on the ensuing pages).

Regional, National, and International Scientific Presentations: (Undergraduate and graduate co-authors are listed in bold):

1. **Schwieterman, G.D.; Crear, D.P.; Anderson, B.N.**; Lavoie, D.R.; Sulikowski, J.A.; Bushnell, P.G.; Brill, R.W. 2020. Warmth, and OA, and Hypoxia, Oh My! Interactions of simulated climate change on the metabolism of coastal species. Ocean Sciences Meeting. San Diego CA. Poster presentation.
2. **Anderson, B.**, Natanson, L., and Sulikowski, J. Preliminary insight into the resiliency of juvenile porbeagle sharks to capture and handling techniques. 2019 Joint Meeting of Ichthyologists and Herpetologists. Snowbird, UT. Oral Presentation.
3. **Verkamp H.J.**, Skomal, G., Winton, M., and Sulikowski, J.A. 2019. First observations of reproductive hormone concentrations in white shark (*Carcharodon carcharias*) skeletal muscle tissue. Joint Meeting of Ichthyologists and Herpetologists. Snowbird, UT.
4. Kieffer, M., Trefry, I., Sulikowski, J., Hylton, S., Wippelhauser, G., Ingram, E., and Zydlewski, G. 2019. Use of the Piscataqua River System by shortnose and Atlantic sturgeons.

Connecticut River Atlantic Salmon Commission 2019 Research Forum, Hadley, Massachusetts.

5. Peelea, E., Sulikowski, J. and Yopak K. 2019. Hot Brains: The Effect of Temperature on Brain Development. Society for Integrative & Comparative Biology (SICB) Annual Meeting. Tampa, Fla.
6. Sulikowski, J.A., Cicia, A.M., Mandelman, J., Rudders, D., Byrner, M., Morgan, A., Curtis, T., Hoffmayer, E., Driggers, W. 2018. Using spatial ecology to reduce bycatch of sharks in the Gulf of Maine Commercial and Recreational ABFT Tuna Fishery. American Fisheries Society Annual Meeting. Atlantic City, New Jersey.
7. Cicia, A.M., Mandelman, J.W., Curtis, T.H., Connors, G., Knotek, R.J., Sulikowski, J.A. 2018. Determining the discard mortality rate of Barndoor skates in an existing non-directed gillnet fisheries. Annual Meeting of the American Fisheries Society. Atlantic City, NJ.
8. **Hylton, S.N., Weissman, A.M.,** Sulikowski, J.A. 2018. Identification of potential wintering habitat for threatened Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in Saco Bay, Maine.” American Fisheries Society Annual Meeting. Atlantic City, New Jersey. Presentation.
9. **Weissman, A.,** Mandelman, J., Rudders, D., Sulikowski, J. 2018. Discard mortality of *Lophius americanus* in the scallop dredge fishery. American Fisheries Society Annual Meeting. Atlantic City, New Jersey. Presentation
10. **Hammer, L.J., Hayne, A.H.P.,** Furey N.B., Sulikowski, J.A. 2018. Using Telemetry to Monitor Movements and Habitat Use of Juvenile Winter Flounder (*Pseudopleuronectes americanus*) in a Southern Maine Estuary." American Fisheries Society Annual Meeting. Atlantic City, New Jersey. Presentation
11. **Schwieterman, G.,** Lavoie D., , **Crear, D., Anderson, B.,** Sulikowski, J., Brill, R.. 2018. Interactions of Acute Temperature and pH Changes on Metabolic Rates and Hypoxia Tolerance: A Comparison Between Mid- and North-Atlantic Species. American Fisheries Society Annual Meeting. Atlantic City, New Jersey. Presentation.
12. **Verkamp, H.J.,** Hammerschlag, N., Sulikowski, J.A. "The Reproductive Hormone Profiles of the Nurse Shark, *Ginglymostoma cirratum*, an Aplacental Viviparous Elasmobranch." American Fisheries Society Annual Meeting. Atlantic City, New Jersey. Presentation.
13. **Swezey, B.B.,** Benoît, H.P., **Capizzano, C.W., Langan, J.A.;** Dean, M, Mandelman, J.W., and Sulikowski, J.A. 2018. Estimating the Post-Release Mortality of Atlantic Cod in the Southern Maine Lobster Fishery. American Fisheries Society Annual Meeting. Atlantic City, New Jersey. Presentation.
14. Peelea, E., Sulikowski, J. and Yopak K. 2018. Hot Brains: The Effect of Temperature on Brain Development. Sharks International, Brazil.

15. **Skubel, R.**, Wilson, K., Isaac Heizer, Sulikowski, J., **Verkamp, H.**, Benetti, D., Papastamatiou, Y., and Hammerschlag, N. 2018. Validation of a novel satellite-transmitted data product to monitor long-term activity in free-ranging elasmobranchs. *Sharks International*, Brazil.
16. **Knotek, R.**, Kneebone J, Mandelman J, Sulikowski J, Curtis T, Benoit H. 2017. Identifying Bottom Trawl Bycatch Hotspots and Capture-and-Handling Practices to Reduce the Incidental Mortality of an Overfished Species of Concern - the Thorny Skate - in the Gulf of Maine. In: 147th Annual Meeting of American Fisheries Society; August 20 - 24; Tampa, FL, USA.
17. Mandelman J, **Capizzano C**, Zemeckis D, Dean M, Hoffman W, Ribblett N, Benoit H, Buchan N, Sulikowski J, Cadrin S. 2017. *Determining the post-release mortality rate and best capture and handling methods for haddock discarded in the Gulf of Maine recreational fisheries*. Oral presentation at the NEFMC's Research Steering Committee Meeting, Boston, MA.
18. Mandelman J, Capizzano C, Zemeckis D, Dean M, Hoffman W, Ribblett N, Benoit H, Buchan N, Sulikowski J, Cadrin S. 2017. *Determining the post-release mortality rate and best capture and handling methods for haddock discarded in the Gulf of Maine recreational fisheries*. Oral presentation at the NEFMC's Scientific and Statistical Committee Meeting, Boston, MA.
19. Mandelman J, **Capizzano C**, Zemeckis D, Dean M, Hoffman W, Ribblett N, Benoit H, Buchan N, Sulikowski J, Cadrin S. 2017. *Determining the post-release mortality rate and best capture and handling methods for haddock discarded in the Gulf of Maine recreational fisheries*. Oral presentation at the NEFMC's Groundfish Plan Development Team Meeting, Boston, MA.
20. **Weissman, A.**, Mandelman, J., Rudders, D., Sulikowski, J. 2017. Stress and observations of mortality of *Lophius americanus* in the scallop dredge fishery. International Pectinid Workshop. Portland, ME.
21. **Weissman, A.**, Mandelman, J., Rudders, D., Sulikowski, J. 2017. Stress and observations of mortality of *Lophius americanus* in the scallop dredge fishery. Southern New England Chapter of the American Fisheries Society. Mystic, CT.
22. **Swezey, B.**, Dean, M., **Capizzano, C.**, Benoît, H., Mandelman, **J.**, **Langan, J.**, Sulikowski, J.A. (2017). Determining Post-Release Mortality for Atlantic Cod Discarded in the Gulf of Maine Lobster Fishery, Southern New England Chapter Conference, Mystic, CT.
23. **Ellis LE**, Golet W, Sulikowski JA. 2017. Using skeletal muscle tissue to determine the sex specific ratios of Atlantic bluefin tuna (*Thunnus thynnus*) in the New England Fishery. In: Southern New England Chapter of the American Fisheries Society Conference; February 27-28-21; Mystic, CT, USA.

24. Hammer, L., Sulikowski, J.A. (2017). The importance of the Saco River Estuary to winter flounder (*Pseudopleuronectes americanus*) life stages, Southern New England Chapter Conference, Mystic, CT.
25. Hammer, L., Sulikowski, J.A. (2017). The importance of the Saco River Estuary to winter flounder (*Pseudopleuronectes americanus*) life stages, The Flatfish Biology Conference, Westbrook, CT.
26. **Swezey, B.B**, Dean, M., Benoît, H., Mandelman, J., Sulikowski, J.A. (2017). Determining Post-Release Mortality for Atlantic Cod Discarded in the Gulf of Maine Lobster Fishery, Canadian Conference for Fisheries Research. Montréal, QC, Canada.
27. **Smith, A.**, Mandelman, J., Rudders, D., Sulikowski, J. 2017. Stress and observations of mortality of *Lophius americanus* in the scallop dredge fishery. Canadian Conference for Fisheries Research. Montreal, Canada.
28. Sulikowski, J.A. Mandelman J.W., Rudders, **Capizzano C.W**, **Knotek R.J.**, D.B., Benoit, H.P. 2016. Evaluating the Condition and Discard Mortality of Winter Skate, *Leucoraja ocellata*, Following Capture and Handling in the Sink Gillnet Fishery. Annual Meeting of the American Fisheries Society; Kansas City, MO.
29. Swezey, B.B., Dean, M., Benoît, H., Mandelman, J., Sulikowski, J.A. 2016. Determining Post-Release Mortality for Atlantic Cod Discarded in the Gulf of Maine Lobster Fishery. Annual Meeting of the American Fisheries Society. Kansas City, MO.
30. Ellis, L.E., Sulikowski, J.A., Golet, W. 2016. Utilizing steroid hormones within the skeletal muscle tissue to determine sex-specific ratios of Atlantic bluefin tuna (*Thunnus thynnus*) in the Gulf of Maine. Annual Meeting of the American Society of Ichthyologists and Herpetologists. New Orleans, LA.
31. Sulikowski, J.A. 2016. Stick it where the sun don't shine: Advances in the non lethal study of elasmobranch reproductive biology in conservation management. Annual Meeting of the American Society of Ichthyologists and Herpetologists. New Orleans, LA.
32. Cicia, A.M., Boag, T., Driggers III, W., Kulka, D., Simpson, M., Miri, C., Koester, D., Sulikowski, J.A. 2016. Utilizing histologically processed vertebrae to estimate age and size at sexual maturity of the black dogfish (*Centroscyllium fabricii*) from the Western North Atlantic. Annual Meeting of the American Society of Ichthyologists and Herpetologists. New Orleans, LA
33. **Kolacy, M.T.**, Koester, D., Dziweczynski, T., Koh, W., Sulikowski, J.A. 2016. Effects of Temperature on the Survival and Behavior of Neonate Little Skates (*Leucoraja erinacea*). Annual Meeting of the American Society of Ichthyologists and Herpetologists. New Orleans, LA.

34. **Smith, A.**, Mandelman, J., Rudders, D., Sulikowski, J. 2016. Stress and discard mortality of *Lophius americanus* in the scallop dredge fishery. Annual Meeting of the American Society of Ichthyologists and Herpetologists. New Orleans, LA.
35. Zydlewski, G.B., Wippelhauser, G.S., Sulikowski, J.A., Kieffer, M., Altenritter, M., and Kinnison, M. 2016. Atlantic Sturgeon movements in of the Gulf of Maine with special attention on the Kennebec System and Penobscot Estuary. Noaa Sturgeon conservation workshop. Kearneysville, WV.
36. Kieffer, M., Wippelhauser, G.S., and Sulikowski, J.A. 2016. Coastal spawning migrations of shortnose sturgeon in the Gulf of Maine. Noaa Sturgeon conservation workshop. Kearneysville, WV.
37. **Bauer T**, Sulikowski J. Abundance and distribution of ichthyoplankton within and around the Saco River plume, Maine. In: American Fisheries Society: Southern New England Chapter Winter Meeting. Narragansett, Rhode Island.
38. **Langan J.A**, Quinlan J.E., Arciero M.J., Mandelman J.W., Capizzano C.W., Hoffman W.S., Dean M.J., Zemeckis D.R., Stettner M., & Sulikowski J.A. 2015. Evaluating the management implications of discard mortality in the Gulf of Maine recreational Atlantic cod (*Gadus morhua*) fishery. In: American Fisheries Society: Southern New England Chapter Winter Meeting. Narragansett, Rhode Island.
39. **Novak A.J.**, Carlson A.E., Wippelhauser G, Zydlewski G, Kinnison M, Sulikowski JA. 2015. Observations on diet and prey availability of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in the Saco River estuary, Maine. In: American Fisheries Society: Southern New England Chapter Winter Meeting. Narragansett, Rhode Island.
40. **Reynolds J.M**, Sulikowski J.A. 2014. Estimating size classes, spawning periods, and residence times of teleosts in the Saco River estuary system based on total body lengths. In: American Fisheries Society: Southern New England Chapter Winter Meeting. Narragansett, Rhode Island.
41. **Wheeler C.R**, Wippelhauser G.S., Zydlewski G.B., Kinnison M.T, Sulikowski J.A. 2015. Determining sex ratios and sexual maturity of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in the Saco River. In: American Fisheries Society: Southern New England Chapter Winter Meeting. Narragansett, Rhode Island.
42. **Bauer T**, Sulikowski J. Abundance and distribution of ichthyoplankton within and around the Saco River plume, Maine. In: Northeast Fish and Wildlife Conference; April 19 - 21; Newport, RI, USA.
43. **Capizzano C.W**, Mandelman J.W., Hoffman W.S, Dean M.J, Zemeckis D.R, Benoît HP, Stettner MJ, Kneebone J, Buchan NC, Langan JA, Sulikowski JA. Estimating and mitigating post-release mortality of Atlantic cod in the Gulf of Maine's recreational rod-and-reel fishery. In: Northeast Fish and Wildlife Conference; April 19 - 21; Newport, RI, USA.

44. **Langan J.A**, Quinlan J.E, Arciero M.J, Mandelman J.W, Capizzano C.W, Hoffman WS, Dean MJ, Zemeckis DR, Stettner M, & Sulikowski JA. 2015. Evaluating the management implications of discard mortality in the Gulf of Maine recreational Atlantic cod (*Gadus morhua*) fishery. In: Northeast Fish and Wildlife Conference; April 19 - 21; Newport, RI, USA.
45. **Knotek R.J**, Rudders D.B, Mandelman J.M, Sulikowski J.A, Benoît H.P, Goldman, K.J. 2015. Discard mortality of sea scallops following capture and handling in the sea scallop dredge fishery. In: Northeast Fish and Wildlife Conference; April 19 - 21; Newport, RI, USA.
46. **Novak A.J**, Carlson AE, Wippelhauser G, Zydlewski G, Kinnison M, Sulikowski JA. 2015. Observations on diet and prey availability of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in the Saco River estuary, Maine. In: Northeast Fish and Wildlife Conference; April 19 - 21; Newport, RI, USA.
47. **Smith K.M**, Byron CJ, Sulikowski JA. 2015. Diadromous fish assemblage assessment and food web characterization in the Saco River estuary, Maine. In: Northeast Fish and Wildlife Conference; April 19 - 21; Newport, RI, USA.
48. **Wheeler C.R**, Wippelhauser GS, Zydlewski GB, Kinnison MT, Sulikowski JA. 2015. Determining sex ratios and sexual maturity of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in the Saco River. In: Northeast Fish and Wildlife Conference; April 19 - 21; Newport, RI, USA.
49. Byron, C., Morgan, A., Sulikowski, J. The role of dogfish in seal diet in the Gulf of Maine. RARGOM, Boston University, Boston, MA, September 30, 2014.
50. **Smith K.M**, Byron CJ, Sulikowski JA. 2014. Diadromous Fish Assemblage Assessment and Food Web Characterization in the Saco River Estuary, ME. RARGOM, Boston University, Boston, MA, September 30, 2014.
51. **Capizzano C.W**, Mandelman JW, Hoffman WS, Dean MJ, Zemeckis DR, Kneebone JR, Stettner MJ, Buchan NC, Langan JA, Sulikowski JA. 2014. Estimating and mitigating post-release mortality of Atlantic cod in the Gulf of Maine's recreational hook-and-line fishery. In: Annual Meeting of the American Fisheries Society; August 17 – August 21; Québec, QC, Canada.
52. **Knotek R.J**, Rudders DB, Mandelman JA, Benoit HP, Sulikowski JA. 2014. The survival of rajids discarded in the New England scallop dredge fishery. In: Annual Meeting of the American Fisheries Society; August 17 – August 21; Quebec, QC, Canada.
53. **Smith K.M**, Byron CJ, Sulikowski JA. 2014. Diadromous Fish Assemblage Assessment and Food Web Characterization in the Saco River Estuary, ME. In: Annual Meeting of the American Fisheries Society; August 17 – August 21; Québec, QC, Canada.

54. **Capizzano CW**, Mandelman JW, Hoffman WS, Dean MJ, Zemeckis DR, Kneebone JR, Stettner MJ, Langan JA, Sulikowski JA. 2014. Estimating and mitigating post-release mortality of Atlantic cod in the Gulf of Maine's recreational hook-and-line fishery. In: Joint Meeting of Ichthyologists and Herpetologists; July 30 – August 3; Chattanooga, TN, USA.
55. **Smith KM**, Sulikowski JA. 2014. Diadromous Fish Assemblage Assessment in the Saco River Estuary In: Saco Science Symposium; June 16; University of New England, Biddeford, ME, USA.
56. **Knotek RJ**, Rudders DB, Mandelman JA, Benoit HP, Sulikowski JA. 2014. The survival of rajids discarded in the New England scallop dredge fishery. In: Joint Meeting of Ichthyologists and Herpetologists; July 30 – August 3; Chattanooga, TN, USA.
57. **Knotek R**, Rudders D, Mandelman J, Benoit H, Gill S, Sulikowski J. The Survival of Rajids Discarded in the New England Scallop Dredge Fishery. American Fisheries Society Southern New England Chapter Winter Meeting 2014. Hadley, Massachusetts
58. **Smith KM**, Byron CJ, Sulikowski JA. 2014. Diadromous Fish Assemblage Assessment in the Lower Saco River, ME, 2012-2013 In: Spring Meeting of the New England Estuarine Research Society; May 1 – May 3; Salem, MA, USA.
59. **Bauer T**, Sulikowski J. Abundance, Assemblage, and Distribution of Ichthyoplankton Around the Saco River Plume. New England Estuarine Research Society. May 3, 2014. Salem, Massachusetts.
60. **Wheeler CR**, Little C, Wippelhauser G, Zydlewski G, Kinnison M, Sulikowski JA. Determining Sex Ratios and Sexual Maturity of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in the Saco River. Poster. Maine Water and Sustainability Conference. April 1, 2014. Augusta, Maine.
61. **Ingram NI** and Sulikowski J. The effect of increased temperature on the gestation and survivability of the little skate (*leucoraja erinacea*). Northeast Fish and Wildlife Associations Conference. April 15, 2014. Portland, Maine.
62. **Bauer T**, Sulikowski J. Abundance, Assemblage, and Distribution of Ichthyoplankton Around the Saco River Plume. Northeast Fish & Wildlife Associations Conference. April 15, 2014. Portland, Maine.
63. **Capizzano CW**, Mandelman JW, Hoffman WS, Dean MJ, Zemeckis DR, Kneebone JR, Stettner MJ, Langan JA, Sulikowski JA. Estimating and mitigating post-release mortality of Atlantic cod in the Gulf of Maine's recreational hook-and-line fishery. Northeast Fish and Wildlife Associations Conference. April 15, 2014. Portland, ME, USA.
64. Carlson A, Sulikowski J, Hoffmayer E, Tribuzio C. The Use of Satellite Tags to Redefine Movement Patterns of Spiny Dogfish (*Squalus acanthias*) along the U.S. East Coast:

Implications for Fisheries Management. Northeast Fish & Wildlife Associations Conference. April 15, 2014. Portland, Maine

65. **Knotek R**, Rudders D, Mandelman J, Benoit H, Gill S, Sulikowski J. The Survival of Rajids Discarded in the New England Scallop Dredge Fishery. Northeast Fish & Wildlife Associations Conference. April 15, 2014. Portland, Maine.
66. **Langan JA**, Quinlan JE, Arciero MJ, Mandelman JW, Hoffman WS, Dean MJ, Zemeckis DR, Capizzano CW, Stettner M, & Sulikowski JA. 2014. Evaluating the Recreational Discard Mortality of Atlantic Cod (*Gadus morhua*). Northeast Fish & Wildlife Association Conference. Portland, Maine.
67. **LeBlanc J. Novak A.** Wippelhauser G. Zydlewski G. Kinnison M. Sulikowski J. Movement of Shortnose Sturgeon (*Acipenser brevirostrum*) in the Saco River Estuary. Northeast Fish & Wildlife Associations Conference. April 13, 2014. Portland, Maine.
68. **Novak A**, Little C, Wippelhauser G, Zydlewski G, Kinnison M, Sulikowski J. Is Diet Related to the Movement of Atlantic sturgeon (*Acipenser oxyrinchus*) in the Saco River Estuary? Northeast Fish & Wildlife Associations Conference. April 15, 2014. Portland, Maine.
69. **Wheeler CR**, Little C, Wippelhauser G, Zydlewski G, Kinnison M, Sulikowski JA. Determining Sex Ratios and Sexual Maturity of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in the Saco River. Northeast Fish & Wildlife Associations Conference. April 15, 2014. Portland, Maine.
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71. **Rudnicky, B.N., J.M. Reynolds, K.M. Smith**, J.A. Sulikowski. 2014. Abiotic Influences on the Juvenile Fish Assemblage of the Saco River Estuary, Maine. Maine Water and Sustainability Conference. Augusta, ME.
72. Sulikowski, **J.A., Knotek, R., Peterson, C.**, Tsang, P., Bublely, W., Driggers, and Hoffmayer, E. 2013. Spiny Dogfish Reproduction in the US portion of the NW Atlantic: WTF is going on..... American Elasmobranch Society 29th Annual Meeting, Albuquerque, New Mexico.
73. **Carlson, A**, Sulikowski J, Hoffmayer, E, Tribuzio, C. 2013. Horizontal and Vertical Movement Patterns of Northwestern Atlantic Spiny Dogfish (*Squalus acanthias*). American Elasmobranch Society 29th Annual Meeting, Albuquerque, New Mexico.
74. **Prohaska, B.K.**, Tsang P.C.W., Driggers W.B., Hoffmayer E.R., Sulikowski J.A. 2013. Development of a Non-lethal and Minimally Invasive Protocol to Study Elasmobranch Reproduction. Annual Meeting of the American Society of Ichthyologists and Herpetologists. Albuquerque, New Mexico.

75. Sulikowski, J.A., **Knotek, R., Peterson, C.**, Tsang, P., Bublely, W., Driggers, and Hoffmayer, E. 2012 Spiny Dogfish: How new hypotheses', new data, and a little luck may lead to a better understanding of this species in the U.S. western north Atlantic Ocean. Annual Meeting of the American Society of Ichthyologists and Herpetologists, Vancouver, British Columbia.
76. **Carlson A.E.**, and Sulikowski JA. 2012. Vertical and Horizontal Movement Patterns of Archival Satellite Tagged Spiny Dogfish, *Squalus acanthias* in the Northwestern Atlantic. Annual Meeting of the American Society of Ichthyologists and Herpetologists, Vancouver, British Columbia
77. **Prohaska, B.K.**, P.C.W. Tsang, W.B. Driggers, E.R. Hoffmayer, J.A. Sulikowski. 2012. Potential utilization of steroid hormones extracted from skeletal muscle tissue of the spiny dogfish (*Squalus acanthias*) and the Atlantic sharpnose shark (*Rhizoprionodon terraenovae*) to determine reproductive status. Ann. Mtg. Am. Soc. Ichthy. and Herp. Vancouver, CA.
78. **Cicia, A.M.**, Mandelman, J.W., Frederich, M., Sulikowski, J.A. 2012. Utilizing a combination of physiological and cellular stress markers to assess the impacts of trawl capture in two skate species, the thorny (*Amblyraja radiate*) and little (*Leucoraja erinacea*) skate. Annual Meeting of the American Society of Ichthyologists and Herpetologists. Vancouver, CA.
79. **Cicia, A.M.**, Mandelman, J.W., **Coutre, K.M.**, Driggers, W.B., Ingram Jr., W., Jurek, J., Felch Jr., C., Sulikowski, J.A. 2012. The survival of rajids discarded in western Northwest Atlantic commerical otter-trawling operations. Annual Meeting of the American Society of Ichthyologists and Herpetologists. Vancouver, CA.
80. **Smith, K.M.**, and Sulikowski, J.A. 2012. Evaluating the Saco Bay Estuary system as a nursery ground for commercially valuable and ecologically important fish species. Oral presentation at the Spring Meeting of the New England Estuarine Research Society. Plymouth, MA.
81. **Prohaska, B.K.**, Tsang, P.C.W., W.B. Driggers, E.R. Hoffmayer, and J.A. Sulikowski. 2012. Potential utilization of steroid hormones extracted from the skeletal muscle tissue of the spiny dogfish (*Squalus acanthias*) and Atlantic sharpnose shark (*Rhizoprionodon terraenovae*) to determine reproductive status. SE. Am. Fish. Soc. Biloxi, MS.
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83. **Higgs, J.**, Hendon, J., Hoffmayer, E. Sulikowski, J., Stiller, D., Driggers, W., and Rakocinski C. 2012. Reproductive biology of the fine tooth shark, *Carcharhinus isodon*, in the Northern Gulf of Mexico: A preliminary assessment. SE. Am. Fish. Soc. Biloxi, MS.
84. Hoffmayer, E., Hendon, J., Jones, L., Driggers, W., Walker, M. **Holland, T.**, and Sulikowski, J. 2012. Variability in the Reproductive Biology of the Atlantic Sharpnose Shark in the Northern Gulf of Mexico. SE. Am. Fish. Soc. Biloxi, MS.

85. **Prohaska, B.P.**, Tsang, P.C.W., and J.A. Sulikowski. 2011. Utilization of steroid hormones extracted from the skeletal muscle tissue of the little skate (*Raja erinacea*) and the spiny dogfish (*Squalus acanthias*) to determine reproductive status, Ann. Mtg. Am. Soc. Ichty. and Herp. Minneapolis, MN.
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87. **Cicia, A.M.**, L.S. Schlenker, J.A. Sulikowski, and J.W. Mandelman. 2011. The seasonal blood biochemical status of the little skate, *Leucoraja erinacea*, exposed to graded bouts of aerial exposure. Ann.Mtg. Am. Soc. Ichty. and Herp. Minneapolis, MI
88. **Little, C.E.**, and J.A. Sulikowski. 2011. Analysis of habitat utilization and reproductive potential of Atlantic sturgeon, *Acipenser oxyrinchus*, in the Saco River, ME, Ann. Mtg. Am. Soc. Ichty. and Herp. Minneapolis, MN
89. **Carlson, A.E.** and J.A. Sulikowski. 2011. Vertical and Horizontal Movement Patterns of Archival Satellite Tagged Spiny Dogfish in the Northwestern Atlantic. Ann. Mtg. Am. Soc. Ichty. and Herp. Minneapolis, MN.
90. **Knotek, R.J, Peterson, C.D,** and J.A. Sulikowski. 2011. Investigating reproductive anomalies in the spiny dogfish, *Squalus acanthias*, along the United States east coast. Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.
91. **Williams, L.J.** and J.A. Sulikowski. 2011. An assessment of seasonal and individual variation in reproductive hormones from a captive population of female little skates. Ann. Mtg. Am. Soc. Ichty, and Herp. Minneapolis, MN.
92. **Hewitt, A.**, Kock, A., Griffiths, C., Katz, A., King, J., Meyer, M. and Sulikowski. J. Levels of Reproductively-related Steroid Hormones: An Evaluation of the Reproductive Cycle of the White Shark, *Carcharodon carcharias*. 2011. 14th annual South African Marine Science Symposium, Umhlanga South Africa.
93. **Altenritter, M. E. L.**, G. B. Zydlewski, M. T. Kinnison¹, J. D. Zydlewski³, G. S. Wippelhauser, and J. A. Sulikowski. 2011. Coastal river connectivity and shortnose sturgeon: a metapopulation perspective. Ann. Mtg. Am. Fish. Soc. Seattle, WA.
94. Sulikowski, J.A., **W. Buble**, B. Galuardi, W. Driggers III, E. Hoffmayer, **A. Cicia**, and P. C.W. Tsang. Dismissing Dogma? What do we really know about the spiny dogfish, *Squalus acanthias*, population in the U.S. western North Atlantic Ocean. ICES Annual Science Conference 2010. Nantes, France.

95. **Cicia, A.M., L.S. Schlenker**, J.A. Sulikowski, and J.W. Mandelman. 2010. The acute physiological effects and recovery from graded air exposure in skate from the western Gulf of Maine, USA. ICES Annual Science Conference 2010. Nantes, France.
96. Sulikowski, J.A. **W. Buble**, B. Galuardi, W. Driggers III, E. Hoffmayer, A. Cicia, and P. C.W. Tsang. 2010. Dismissing Dogma? What do we really know about the spiny dogfish, *Squalus acanthias*, population in the U.S. western North Atlantic Ocean, Ann. Mtg. Am. Soc. Ichty. and Herp. Providence, RI.
97. **Little, C.E., D.A. Flawd**, and J.A. Sulikowski. 2010. Preliminary investigation into the movement patterns of Atlantic sturgeon, *Acipenser oxyrinchus*, in the Saco River, ME, Ann. Mtg. Am. Soc. Ichty. and Herp. Providence, RI.
98. **Williams, L.J.** and J.A. Sulikowski. 2010. The use of steroid hormone concentrations to determine individual variability in the reproductive cyclicity of the little skate, *Leucoraja erinacea*, in the western Gulf of Maine. Ann. Mtg. Am. Soc. Ichty. and Herp. Providence, RI
99. **Cicia, A.M., L.S. Schlenker**, J.A. Sulikowski, and J.W. Mandelman. 2010. The acute physiological effects and recovery from graded air exposure in skate from the western Gulf of Maine, USA. Ann. Mtg. Am. Soc. Ichty. and Herp. Providence, RI.
100. **Bergeron, J.B, S. Johnson**, J.A. Sulikowski. 2010. Describing vertical distribution and abundance of larval fish in the Saco River estuary system. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.
101. **Ward, N.M**, and J.A. Sulikowski. 2010. Determining age and size at sexual maturity of black dogfish, *Centroscyllium fabricii*. Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.
102. **Flawd, D.J, C. Little**, and J.A. Sulikowski. 2010. "Observing habitat use of the Atlantic Sturgeon, *Acipenser oxyrinchus*, in the Saco River using acoustic telemetry." Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS). Biddeford, ME.
103. **Engel, L.A**, and J.A. Sulikowski. 2010. A preliminary study on the extent of habitat partitioning of juvenile fish within the Saco River estuary. Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.
104. **Traverse-Taylor, A.L, A.M. Cicia, L.J. Williams**, and J. A. Sulikowski, 2010. Evaluating post mortem estradiol changes in serial sampled adult female dogfish (*Squalus acanthias*) from the northwestern Gulf of Maine. Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.

105. **Rosati, D.** and J.A. Sulikowski. 2010. Qualitative analysis of stomach contents of the spiny dogfish (*Squalus acanthias*) from the northwest Atlantic Ocean. Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.
106. Sulikowski, J.A., **L. J. Williams**, and M. L. Domeier. 2010. The potential use of non-lethal techniques to assess the reproductive biology of the white shark, *Carcharodon carcharias*. Int. White Shark Symp., Honolulu Hawaii.
107. Sulikowski, J. A., Cicia, A.M., W.B. Driggers, J. Hendon, **L. J. Williams**, and E.R. Hoffmayer. 2009. Size and Age Estimates at Sexual Maturity for the blacknose shark, *Carcharhinus acronotus*, from the Northern Gulf of Mexico. Ann. Mtg. Am. Soc. Ichty. and Herp. Portland, Or.
108. Williams, L.J. and Sulikowski, J.A. 2009. The use of steroid hormone concentrations to determine individual variability in the reproductive cyclicity of the little skate, *Leucoraja erinacea*, in the western Gulf of Maine. Ann. Mtg. Am. Soc. Ichty, and Herp. Portland, OR.
109. **Cicia, A.M.**, W.B. Driggers, J. Hendon, E.R. Hoffmayer, and J.A. Sulikowski. 2009. Investigating the physiological effects of environmental salinity on the distribution of adult female Atlantic sharpnose sharks, *Rhizoprionodon terraenovae*, in the northern Gulf of Mexico. Ann. Mtg. Am. Soc. Ichty. and Herp. Portland, Or.
110. **Cicia, A.M.**, W.B. Driggers, G.W. Ingram, J. Kneebone, P.C.W. Tsang, D.M. Koester, and J.A. Sulikowski. Age and Size at sexual maturity of the little skate, *Leucoraja erinacea*, in the western Gulf of Maine. 35th annual meeting of the Mississippi Chapter of American Fisheries Society, Biloxi Mississippi
111. Sulikowski, J.A. **W. Bublely**, and P. C.W. Tsang. 2008. The Potential Use of Pop-up Archival Transmitting (PAT) Tags to Examine Habitat Use and Migration Patterns of Spiny Dogfish (*Squalus acanthias*) in the Western Gulf of Maine. Ann. Mtg. Am. Soc. Ichty. and Herp. Montreal, CA.
112. **Cicia, A.M.**, W.B. Driggers, G. W. Ingram Jr., J. Kneebone, P.C.W. Tsang, Koester, D., and J.A. Sulikowski. 2008. Age, growth, and maturity of the little skate, *Leucoraja erinacea*, from the Western Gulf of Maine, USA. Ann. Mtg. Am. Soc. Ichty. and Herp. Montreal, CA.
113. Ostrow, G.D., **M. Salomon**, **G. C. Clark**, **J. Kneebone**, J.A. Sulikowski, P. C.W. Tsang. 2008. Population genetic patterns among phenotypically divergent thorny skate (*Amblyraja radiata*) populations from the western Gulf of Maine. Ann. Mtg. Am. Soc. Ichty. and Herp. Montreal, CA
114. **Bublely, W.**, J.A. Sulikowski, and P. C.W. Tsang. 2008. Utilizing DNA microsatellites to study population structure of dogfish, *Squalus acanthias*, in the Western North Atlantic. Ann. Mtg. Am. Soc. Ichty. and Herp. Montreal, CA.

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116. **Bubley W., E. Fagan**, J.A., Sulikowski, D. Koester, and Tsang. P.W.C. 2007. Assessing the Potential use of Alternate Techniques to Enhance Visualization of Growth Increments to Estimate Age in the Spiny Dogfish, *Squalus acanthias* Ann. Mtg. Am. Soc. Ichty. and Herp. St Louis, MS.
117. **Ford, T.S.** J.A. Sulikowski, W.B. Driggers, R. Boonstra, and J.K. Carlson. 2006. The reproductive cycle of the blacknose shark, *Carcharhinus acronotus*, in the Gulf of Mexico. Ann. Mtg. Am. Soc. Ichty. and Herp. New Orleans, LA.
118. **Kneebone J.**, J.A. Sulikowski, D.E Ferguson, and P.C.W. Tsang. 2006. Endocrinological investigation into the reproductive cycles of two sympatric skate species, *Malacoraja senta* and *Amblyraja radiata*, in the western Gulf of Maine. Ann. Mtg. Am. Soc. Ichty. and Herp. New Orleans, LA.
119. Sulikowski, J.A., W.B. Driggers, W. Ingram, **J. Kneebone, D.E Ferguson**, and P.C.W. Tsang. 2006. The use of Circulating Hormones Levels as a Non-Lethal Technique for the Study of Skate Reproductive Biology and the Potential Use in Conservation Management. Ann. Mtg. Am. Soc. Ichty. and Herp. New Orleans, LA.
120. Sulikowski, J.A., **J. Kneebone, S. Elzey**, P. Danley, W. H. Howell and P.C.W. Tsang. 2005. Age and size at sexual maturity for the thorny skate, *Amblyraja radiata*, in the western Gulf of Maine based on a three parameter estimate. Ann. Mtg. Am. Soc. Ichty. and Herp. Tampa, FL.
121. **Siceloff, L., T. Ford**, N. Goddard, A. Morgan, J.A. Sulikowski and G.H. Burgess. 2005. Regional bycatch composition of the commercial shark bottom longline fishery of the southeastern United States Ann. Mtg. Am. Soc. Ichty. and Herp. Tampa, FL.
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123. Sulikowski, J.A., E. A. Fairchild, W.H. Howell and **N. Rennels**. 2004. The effects of tagging and transport stress on juvenile winter flounder *Pseudopleuronectes americanus*: implications for successful stock enhancement. World Aquaculture 2004 Mtg. Honolulu, HI.
124. Sulikowski, J.A., P.C. Tsang and W.H. Howell. 2003. Age and size at sexual maturity for the winter skate, *Leucoraja ocellata*, in the western Gulf of Maine based on morphological, histological and steroid hormone analyses. European Elasmobranch Society meeting, San Marino, Italy.

125. Sulikowski, J.A., W. H. Howell, **J. M. Wanat, G. A., Rice, N. Rennels**, C.J. Jones, and G. Nardi. 2001. Ionic and hematological changes in the summer flounder (*Paralichthys dentatus*) associated with their movement from a recirculating system hatchery to an ocean net pen. Open Aquaculture IV Mtg. St. Andrews, Can.
126. Gefroh, H., M.G. Janech, J.A. Sulikowski, D.W. Ploth, and W.R. Fitzgibbon. Identification of a putative urea transporter (skut) from the kidney of the winter skate, *Leucoraja ocellata*. 2001. International Union of Physiological Sciences (IUPS). Christchurch, New Zealand.
127. Sulikowski, J.A., W. H. Howell, **J. M. Wanat, G. A., Rice, N. Rennels**, C.J. Jones, and G. Nardi. 2001. Changes in summer flounder (*Paralichthys dentatus*) blood chemistry associated with their movement from a recirculating system hatchery to an ocean net pen. Ann. Mtg. World Aquaculture Soc., Orlando, FL.
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Undergraduate presentations given at local meetings.

132. **Hammer, L.**, Sulikowski, J.A. 2018. Assessment of the Winter Flounder (*Pseudopleuronectes americanus*) Stock of the Saco River Estuary, Maine. Summer Undergraduate Research Experience Symposium. Biddeford, ME.
133. **Sisk, M.R.**, Sulikowski J.A., Bartlett, J., Carey, J., Flanigan, A. 2017. Analyzing the age and growth of the Maine rainbow smelt (*Osmerus mordax*) population. Summer Undergraduate Research Experience Symposium. Biddeford, ME.
134. **Flanigan, A.F., Langan, J. A.**, Hylton, S. N., and J.A. Sulikowski. 2018. Preliminary Investigations into the Abiotic Factors Driving Movement and an Initial Population Estimate of Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*) Within the Saco River Estuary. Summer Undergraduate Research Experience Symposium. Biddeford, ME.

135. **Burgess, K.N.**, Sulikowski, J.A., Koester, D.M. 2018. Development and application of a histological protocol for the age determination of monkfish, *Lophius americanus*. UNE College of Arts and Sciences Research Symposium. Biddeford, ME.
136. **Austin., R., Sweezy, B.**, Sulikowski., J.A. 2017. An Assessment of Stress and Post Release Mortality in Bycaught Atlantic Cod in the GOM Commercial Lobster Fishery. UNE College of Arts and Sciences Research Symposium. Biddeford, ME.
137. **Hodgdon, C.**, and Sulikowski, J.A. 2017. Seasonal movement patterns of the shortnose sturgeon (*Acipenser brevirostrum*) within the Saco River Estuary, Maine. 2017. UNE College of Arts and Sciences Research Symposium. Biddeford, ME.
138. **Mohr, E., VerKamp, H.**, and Sulikowski, J.A. 2017. Assessing steroid reproductive hormones in bull and blacktip sharks captured off the coast of Southern Florida. UNE College of Arts and Sciences Research Symposium. Biddeford, ME.
139. **Wells, N., VerKamp, H.**, and Sulikowski, J.A. 2017. Assessing Reproductive Steroid Hormone Concentrations in lemon and sandbar sharks Captured off the Coast of Southern Florida. UNE College of Arts and Sciences Research Symposium. Biddeford, ME.
140. **Brown, A.**, and Sulikowski, J.A. 2017. Atlantic sharpnose shark (*Rhizoprionodon terraenovae*) age and growth in the Gulf of Mexico. UNE College of Arts and Sciences Research Symposium. Biddeford, ME.
141. **Kolacy, M.T.**, Koester, D., Dzieweczynski, T., Koh, W., Sulikowski, J.A. 2016. Effects of Temperature on the Survival and Behavior of Neonate Little Skates (*Leucoraja erinacea*). UNE College of Arts and Sciences Research Symposium. Biddeford, ME.
142. **Hammer, L.**, Sulikowski, J.A. (2016). The importance of the Saco River Estuary to winter flounder (*Pseudopleuronectes americanus*) life stages. Summer Undergraduate Research Experience Symposium. Biddeford, ME.
143. **Jenner, B. P., Langan J.A.**, and J.A. Sulikowski. 2014. Preliminary Results of Incidental Finfish Bycatch in the Commercial Lobster (*Homarus americanus*) fishery. Summer Undergraduate Research Experience Symposium. Biddeford, ME.
144. **Novak A.J.**, Little C.E., Wippelhauser G., Zydlewski G., Kinnison M., and J. A. Sulikowski. 2014. Observations on the diet and prey availability of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in the Saco River estuary. Summer Undergraduate Research Experience (SURE) symposium. Biddeford, ME.
145. **Langan JA**, Quinlan JE, Arciero MJ, Mandelman JW, Hoffman WS, Dean MJ, Zemeckis DR, **Capizzano CW**, Stettner M, & Sulikowski JA. 2014. Evaluating the Management Implications of Discard Mortality in the Gulf of Maine Recreational Atlantic cod (*Gadus morhua*) Fishery. Summer Research Symposium. University of New England. Biddeford, Maine.

146. **Wheeler CR**, Little C, Wippelhauser GS, Zydlewski GB, Kinnison MT, Sulikowski JA. 2014. Determining Sex Ratios and Sexual Maturity of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in the Saco River. Presentation. Summer Undergraduate Research Experience (SURE) Symposium, Biddeford, ME. 1ds
147. **Reynolds JM**, Sulikowski JA. 2014. Estimating Size Classes, Spawning Periods, and Residence Times of Teleosts in the Saco River Estuary System Based on Total Body Lengths. Summer Undergraduate Research Experience (SURE) Symposium. Biddeford, ME.
148. **Kolacy, M.T.**, and J.A. Sulikowski. 2014. A preliminary investigation into the effects of temperature on behavior and brain development in the little skate. Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.
149. **Rudnický BN, Reynolds JM, Smith KM**, and Sulikowski JA. 2014. Asiatic Influences on the Juvenile Fish Assemblage of the Saco River Estuary, Maine. Summer Undergraduate Research Experience (SURE) Symposium, Biddeford, ME.
150. **Carleton LM**, Koester DM, Sulikowski JA. Hormonal and morphological changes in the shell gland during maturation and egg case development of an oviparous elasmobranch, *Leucoraja erinacea*. Northeast Undergraduate Research and Development Symposium. March 9, 2014. Biddeford, ME.
151. **Ingram NI** and Sulikowski J. The temperature effect on the gestation and survivability of the little skate (*leucoraja erinacea*). Northeast Undergraduate Research and Development Symposium. March 9, 2014. Biddeford, Maine.
152. **Langan JA**, Quinlan JE, Arciero MJ, Mandelman JW, Hoffman WS, Dean MJ, Zemeckis DR, Capizzano CW, Stettner M, & Sulikowski JA. 2014. Evaluating the Recreational Discard Mortality of Atlantic Cod (*Gadus morhua*). Northeast Undergraduate Research & Development Symposium. University of New England. Biddeford, Maine.
153. **LeBlanc J. Novak A.** Wippelhauser G. Zydlewski G. Kinnison M. Sulikowski J. Movement of Shortnose Sturgeon (*Acipenser brevirostrum*) in the Saco River Estuary. Northeast Undergraduate Research and Development Symposium. March, 8, 2014. Biddeford, Maine.
154. **Novak A**, Little C, Wippelhauser G, Zydlewski G, Kinnison M, Sulikowski J. Is Diet Related to the Movement of Atlantic sturgeon (*Acipenser oxyrinchus*) in the Saco River Estuary? Northeast Undergraduate Research and Development Symposium. March 9, 2014. Biddeford, Maine.
155. **Rudnický B, Reynolds J, Smith K**, Sulikowski J. Abiotic Influences on the Juvenile Fish Assemblage of the Saco River Estuary, Maine. Northeast Undergraduate Research and Development Symposium. March 8th, 2014. Biddeford, Maine.

156. **Langan JA**, Quinlan JE, Arciero MJ, Mandelman JW, Hoffman WS, Dean MJ, Zemeckis DR, Capizzano CW, Stettner M, & Sulikowski JA. 2013. Evaluating the Recreational Discard Mortality of the Atlantic Cod (*Gadus morhua*). Student Research and Scholarship Symposium. University of New England. Biddeford, Maine.
157. **Langan JA**, Quinlan JE, Arciero MJ, Mandelman JW, Hoffman WS, Dean MJ, Zemeckis **DR**, **Capizzano CW**, Stettner M, & Sulikowski JA. 2014. Evaluating the Recreational Discard Mortality of Atlantic Cod (*Gadus morhua*). Northeast Undergraduate Research & Development Symposium. University of New England. Biddeford, Maine.
158. **Wheeler C.R**, Little, C., Wippelhauser, G., Zydlewski, G., Kinnison, M., and Sulikowski, J.A. 2013. Determining Sex Ratios and Sexual Maturity of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in the Saco River. 31st Annual New England Endocrine Conference, Durham, New Hampshire.
159. **Langan JA**, Quinlan JE, Arciero MJ, Mandelman JW, Hoffman WS, Dean MJ, Zemeckis DR, **Capizzano CW**, Stettner M, & Sulikowski JA. 2013. Evaluating the Recreational Discard Mortality of Atlantic Cod (*Gadus morhua*). Friends & Family Weekend Research Exhibition University of New England. Biddeford, Maine.
160. **Boag, T** and J. A. Sulikowski. 2013. Age and Size at Sexual Maturity of the Black Dogfish, *Centroscyllium fabricii*. Northeast Undergraduate Research and Development Symposium, Biddeford, Maine.
161. **Carleton, L.M.**, Koester D.M., Sulikowski J.A., Streicher J.M. 2013. Investigating the factors that control shell gland maturation in oviparous elasmobranchs. Northeast Undergraduate Research and Development Symposium, Biddeford, Maine.
162. **Clabaugh, A.R.** and Sulikowski J.A.. 2013. Using stomach content and stable isotope analysis to identify direct and indirect impact by spiny dogfish, *Squalus acanthias*, on commercially important fish populations from Southern New England. Northeast Undergraduate Research and Development Symposium, Biddeford, Maine.
163. **Ingram, N.I.**, Sulikowski J.A. 2013. Temperature Effect on Gestation and Survivability of the Little Skate (*Leucoraja erinacea*). Northeast Undergraduate Research and Development Symposium, Biddeford, Maine.
164. **Langan, J.A**, Quinlan J., Arciero J., Mandelman J, Dean M, Hoffman B, Zemeckis D, Capizzano C, Stettner M, Sulikowski J.A. 2013. Evaluating the Recreational Discard Mortality of Atlantic Cod (*Gadus morhua*). Northeast Undergraduate Research and Development Symposium, Biddeford, Maine.
165. **Novak, A.J.**; Little, CE; Sulikowski, JA. 2013. Movement and Diet of the Atlantic Sturgeon (*Acipenser oxyrinchus*) in the Saco River Estuary. Northeastern Undergraduate Research and Development Symposium, Biddeford, ME

166. **Peterson, C.P., Knotek, R.K.**, Sulikowski, J.A., Quinlan, J. 2013 Gestational analysis of the spiny dogfish (*Squalus acanthias*) by coupling ultrasound and steroid hormone analysis. Oral Presentation. Northeast Undergraduate Research and Development Symposium. Biddeford, ME.
167. **Reynolds J.M., Smith K.M.**, Sulikowski JA. 2013. Preliminary Observations of the Larval Fish Assemblage in the Saco River. Northeast Undergraduate Research and Development Symposium, Biddeford, Maine
168. **Smith, K.M.**; Sulikowski, J.A; 2013. Evaluating the Saco Bay Estuary System as a Nursery Ground for Commercially Valuable and Ecologically Important Fish Species. Northeastern Undergraduate Research and Development Symposium, Biddeford, Maine.
169. **Wheeler C.R.**, Little, C., Wippelhauser, G., Zydlewski, G., Kinnison, M., Sulikowski, J.A. 2013. Determining Sex Ratios and Sexual Maturity of Atlantic sturgeon (*Acipenser oxyrinchusoxyrinchus*) in the Saco River. Northeastern Undergraduate Research and Development Symposium, Biddeford, Maine.
170. **Peterson, C.P., R.J. Knotek**, and J.A. Sulikowski. 2011. Determining the gestation period of the spiny dogfish (*Squalus acanthias*). Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS). Biddeford, ME
171. **Coutre, K.M.**, Gedamke, T., Rudders, D. and J.A. Sulikowski. 2011. Age and Size at Sexual Maturity of the Barndoor Skate, *Dipturus laevis*, based on Morphological Analyses. Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.
172. **Smith, K. M.**, and J.A. Sulikowski. 2011. Monitoring the seasonal variability and abundance of crustaceans and juvenile fish within the Saco River estuary. Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.
173. **Ingram, N.A.**, Sulikowski, J.A. 2012. The effect of temperature on gestation and survivability of the little skate (*Leucoraja erinacea*) in the Gulf of Maine. Undergraduate Summer Research Symposium. Biddeford, ME.
174. **Smith, K.M.**, and Sulikowski, J.A. 2012. Evaluating the Saco Bay estuary system as a nursery ground for commercially valuable and ecologically important fish species. Poster presentation at the UNE Summer Undergraduate Research Symposium. Biddeford, ME.
175. **Peterson, C.P.**, Sulkowski, J.A. 2012. Determining the gestation period of the spiny dogfish (*Squalus acanthias*). Poster. Undergraduate Summer Research Symposium. Biddeford, ME.
176. **Clabaugh, A.R.** and J.A. Sulikowski. 2012. Using stomach content and stable isotope analysis to identify direct and indirect impact by spiny dogfish, *Squalus acanthias*, on commercially important fish populations from Southern New England. University of New England Summer Research Symposium. Biddeford, ME.

177. **Hurst, A.R., S.L. Johnson, J. Bergeron,** and J. A. Sulikowski. 2009. Investigation of Larval Fish Distribution Within the Saco Bay Estuary System. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.
178. **Furey, N.B,** and J.A. Sulikowski. 2009. Temporal variations of the fish assemblage within the Saco River estuarine ecosystem; determining the role of this habitat in the life history of nektonic species. Ann. Mtg. Northeast Undergraduate Research and Development Symposium (NURDS), Biddeford, ME.
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GRADUATE AND UNDERGRADUATE STUDENT RESEARCH

Research mentor to 45 undergraduate students; Masters thesis major advisor for 15 students; Masters thesis committee member for 3 students; PhD Dissertation Committees for 3 students , and Primary adviser for 2 PhD students.

PhD Primary Adviser:

Brooke Anderson: Topic TBD. Expected graduation May 2025

Hannah Verkamp: Topic TBD. Expected graduation May 2025

PhD Dissertation Committees:

John W. Mandelman. 2006. Northeastern University. Dissertation project: Stress and Survivorship in Spiny Dogfish (*Squalus acanthias*) and other Elasmobranchs: the Physiological status and Mortality associated with Fishing capture. Major Professor, Dr. Don O'Malley.

Walter Buble. University of New Hampshire. Dissertation project: New approaches to update and collect fishery specific data on spiny dogfish, *Squalus acanthias*. Major Professor, Dr. Hunt Howell.

PhD Examiner:

Michelle Treloar. Aspects of the life history of skates from southeastern Australia. Deakin University. Major Advisor

Research Projects with ASU Masters Students:

Stephanie Cassel: Title TBD

Research Projects with UNE Masters Students:

Laura Williams. Title: Hormonal synchronicity in the reproductive cycle of the little skate. Graduation, Summer 2011.

Caitlyn Little: Title: Habitat use and movement patterns of the Atlantic sturgeon in the Saco River: implications for fisheries management, spring 2012.

Angela Cicia: Title: assessing the physiological effects of air exposure and tow duration in little (*leucoraja erinacea*) and thorny (*amblyraja Radiata*) skates captured within the northwest Atlantic ottertrawl fishery, spring 2012.

Bianca Prohaska: Title: The development of a non lethal technique to study elasmobranch reproduction, Spring 2013

Amy Carlson: Title: Delineating movement patterns of spiny dogfish in the Northwest Atlantic using satellite tag technology, spring 2013

Brittany Palm: Title: Diet composition of the atlantic croaker, *Micropogonias undulatus*, sand seatrout, *Cynoscion arenarius*, and silver seatrout, *Cynoscion nothus*, with possible implications for fisheries management in the Gulf of Mexico, spring 2013.

Ryan Knotek. Title: Evaluating the Condition and Discard Mortality of Skates Following Capture and Handling in the Sea Scallop Dredge Fishery, spring 2014.

Connor Capizzano. Title: Elucidating post-release mortality and "best capture and handling" methods in sublegal Atlantic cod discarded in Gulf of Maine recreational hook fisheries, spring, 2014.

Laura Ellis: Title: Determining the sex and reproductive state of Atlantic Bluefin Tuna through the use of sex steroids extracted from skeletal muscle tissue, Spring 2018.

Amy Smith: Title: The effect of capture stress in bony fishes and its relation to discard mortality, spring 2018.

Brett Swezey: Title: Determining the Post-Release Mortality Rate and Best Capture-and-Handling Methods for Atlantic Cod Discarded in the Gulf of Maine Lobster Industry, Spring 2018.

Sarah Hylton: Title: Diet, Movement, and Reproduction of the Shortnose Sturgeon in the Merrimack River, spring 2019.

Brooke Anderson: Effects of Scallop Dredge Fishing Practices on the Physical, Behavioral, and Physiological Stress Responses of Three Flounder Bycatch Species. Fall 2019.

Hannah Verkamp: Nonlethal assessment of reproductive parameters in sharks: Studies on the blacktip shark (*Carcharhinus limbatus*) and white shark (*Carcharodon carcharias*) Fall 2019.

Research Projects with UNE Undergraduate Students:

2006-2007:

Directed Study Student Kristen Kelly ('07'). A preliminary investigation into the seasonal abundance and diversity of the macrofauna within the Saco River estuary system. Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study Student Nicole Condon ('07'). Preliminary investigation of spiny dogfish (*Squalus acanthias*) diet in the Western Gulf of Maine. Results presented at the UNE undergraduate research symposium as an oral presentation (winner best student presentation award).

Directed Study Student Angela Cicia ('08'). Age and size at sexual maturity of the smooth skate, *Malacoraja senta*, in the Gulf of Maine. Results presented at the UNE undergraduate research symposium as an oral presentation.

Research Assistant Student Marie Quinlan ('11'). Sexual dental dimorphism in the Atlantic Torpedo ray. Results presented at the UNE undergraduate research symposium as a poster presentation.

2007-2008:

Marine Biology Honors Student Angela Cicia (08). Age, growth, and maturity of the little skate, *Leucoraja erinacea*, from the western Gulf of Maine based on morphological, histological and hormone analyses. Results presented at the UNE undergraduate research symposium as an oral presentation (second place best student oral presentation).

Directed Study Student Andy Wargo ('08'). Larval fish abundance and distribution in the Saco River estuary system. Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study Student Brittany Palm ('09'). Little skate gestation rates and the potential use of sperm storage. Results presented at the UNE undergraduate research symposium as an oral presentation.

Marine Biology Honors Student Nathan Furey ('09'). Evaluating the Saco Bay estuary system and its potential use as a nursery ground for inshore macrofaunal species. Results presented at the UNE undergraduate research symposium as an oral presentation.

2008-2009:

Directed Study student Brittany Palm ('09'). The Fecundity, Viability, and Gestation Rates of Little Skate (*Leucoraja erinacea*) Egg Cases. Preliminary results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Leigh Engel ('10'). Habitat Partitioning of Juvenile Fish within the Saco River Estuary. Preliminary results presented at the UNE undergraduate research symposium as an oral presentation.

Marine Biology Honors Student Nathan Furey ('09'). Temporal Variations of the Fish Assemblage within the Saco River Estuarine Ecosystem: Determining the Role of this Habitat in the Life History of Nektonic Species. Preliminary results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Samantha Johnson ('10'). Behavior Modification & Distribution of Ichthyoplankton in the Saco River Plume. Preliminary results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Jade Heidt ('10'). Effects of Temperature & Seasonal Variation on Growth of the Neonate Little Skate (*Leucoraja erinacea*). Preliminary results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Devin Flawd ('10'). Use of Acoustic Telemetry to Track Atlantic Sturgeon Movement Patterns in the Saco River. Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Nicole Ward ('10'). Age and Size of the Black Dogfish (*Centroscyllium fabricii*) at Sexual Maturity, A proposal for summer research. Preliminary results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Drew Rosati ('10'). Community Diversity among Adult Fish Populations and its Influence on Juvenile Survival in Maine's Saco Bay A long lining survey and IRI on species caught. Preliminary results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Jessica Bergeron ('11'). Vertical Distribution & Abundance of Larval Fish in the Saco River Estuary System Introduction of sampling techniques new to this region. Preliminary results presented at the UNE undergraduate research symposium as an oral presentation.

2009-2010:

Directed Study student Leigh Engel ('10'). Habitat Partitioning of Juvenile Fish within the Saco River Estuary. Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Samantha Johnson ('10'). Behavior Modification & Distribution of Ichthyoplankton in the Saco River Plume. Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Jade Heidt ('10'). Effects of Temperature & Seasonal Variation on Growth of the Neonate Little Skate (*Leucoraja erinacea*). Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Devin Flawd ('10'). Use of Acoustic Telemetry to Track Atlantic Sturgeon Movement Patterns in the Saco River. Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Nicole Ward ('10'). Age and Size of the Black Dogfish (*Centroscyllium fabricii*) at Sexual Maturity. Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Drew Rosati ('10'). Community Diversity among Adult Fish Populations and its Influence on Juvenile Survival in Maine's Saco Bay A long lining survey and IRI on species captured. Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Jessica Bergeron ('11'). Vertical Distribution & Abundance of Larval Fish in the Saco River Estuary System Introduction of sampling techniques new to this region. Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Tiffany Nordhouse ('10'). Variability in little skate gestation periods based on external temperature fluctuations. Results presented at the UNE undergraduate research symposium as an oral presentation.

Directed Study student Ashley Traverse-Taylor ('10'). Investigating the physiological changes in blood chemistry of post capture adult female dogfish. Results presented at the UNE undergraduate research symposium as an oral presentation.

2010-2011

Honors research student Karson Coutre ('12'). Assessing the age and size at sexual maturity of the Barndoor skate based on morphological analyses. Preliminary results presented at the UNE summer symposium as a poster presentation.

Directed Study student Eric Nuber ('12'). Sperm storage in four species of skates from the western Gulf of Maine. Preliminary results presented at the UNE summer undergraduate research symposium as poster presentation.

Honor research student Daniel Crear ('12') Age Distribution of Six Shark Species in the Mississippi Sound Nursery Ground. Preliminary results presented at the UNE summer undergraduate research symposium as poster presentation.

Honors research student Ryan Knotek ('12'). Investigating Reproductive Anomalies in the Spiny Dogfish, *Squalus acanthias*, Along the United States East Coast. Preliminary results presented at the UNE summer undergraduate research symposium as poster presentation.

Directed Study student Kayla M. Smith ('13') Monitoring seasonal variability in composition and abundance of crustacean and juvenile fish species within the Saco River Estuary. Preliminary results presented at the UNE summer undergraduate research symposium as poster presentation.

Honors research student Anna Clabaugh ('13'). Using stomach content and stable isotope analysis to identify direct and indirect impact by spiny dogfish, *Squalus acanthias*, on commercially important fish populations from Southern New England.

2012-2013:

Directed Study student Kayla M. Smith ('13) Monitoring seasonal variability in composition and abundance of crustacean and juvenile fish species within the Saco River Estuary. Preliminary results presented at the UNE summer undergraduate research symposium as poster presentation.

Honors research student Natalie Ingram ('14'). The Effect of Temperature on Gestation and Survivability of the Little Skate (*Leucoraja erinacea*) in the Gulf of Maine.

Honors research student Tara Boag ('14'). Vertebral Band Enhancement of Deepwater Elasmobranch Species Using Histology

Honors research student Liese Carleton ('14'). Investigating the Factors that Control Maturation of the Oviducal Gland in Oviparous Elasmobranchs.

Honors research student Joe Langan ('15'). Evaluating the Recreational Discard Mortality of Atlantic Cod (*Gadus morhua*).

Directed Study student Carolyn Wheeler ('15'). Investigating the reproductive biology of the tiger shark using steroid hormones.

Directed Study student Ashleigh Novak ('15'). Delineating habitat partitioning and feeding habits of the Atlantic and shortnose sturgeons in the Saco River.

Directed Study student Julia Reynolds ('15'). Determining the Larval Fish Assemblage in the Saco River Watershed.

2013-2014:

Honors research student Joe Langan ('15'). Evaluating the Recreational Discard Mortality of Atlantic Cod (*Gadus morhua*).

Honors research student Carolyn Wheeler ('15'). Investigating the reproductive biology of the tiger shark using steroid hormones.

Directed Study student Ashleigh Novak ('15'). Delineating habitat partitioning and feeding habits of the Atlantic and shortnose sturgeons in the Saco River.

Honors research student Julia Reynolds ('15'). Determining the Larval Fish Assemblage in the Saco River Watershed.

Direct study Student Brenda Rudnicky ('15'). Abiotic Influences on the Juvenile Fish Assemblage of the Saco River Estuary, Maine

2014-2015:

Honors research student Joe Langan ('15'). Evaluating the Recreational Discard Mortality of Atlantic Cod (*Gadus morhua*).

Honors research student Carolyn Wheeler ('15'). Investigating the reproductive biology of the tiger shark using steroid hormones.

Directed Study student Ashleigh Novak ('15'). Delineating habitat partitioning and feeding habits of the Atlantic and shortnose sturgeons in the Saco River.

Honors research student Julia Reynolds ('15'). Determining the Larval Fish Assemblage in the Saco River Watershed.

Direct study Student Brenda Rudnicky ('15'). Abiotic Influences on the Juvenile Fish Assemblage of the Saco River Estuary, Maine.

2015-2016:

Directed Study: Erin Mohr Assessing steroid reproductive hormones in bull and blacktip sharks captured off the coast of Southern Florida.

Directed Study: Melanie Kolacy ('16'). Temperature Effect on Behavior and Neurological Development of the Little Skate

Honors Research student: Cameron Hodgdon ('17'). Seasonal movement patterns of the shortnose sturgeon (*Acipenser brevirostrum*) within the Saco River Estuary, Maine

Directed Study: Alicia Brown ('17'). Atlantic sharpnose shark (*Rhizoprionodon terraenovae*) age and growth in the Gulf of Mexico.

Directed Study: Riley Austin ('18'). Assessment of the Winter Flounder (*Pseudopleuronectes americanus*) Stock of the Saco River Estuary, Maine

Directed Study: Lars Hammer ('18'). Assessment of the Winter Flounder (*Pseudopleuronectes americanus*) Stock of the Saco River Estuary, Maine

Directed Study: Nora Wells ('18'). Assessing Reproductive Steroid Hormone Concentrations in lemon and sandbar Captured off the Coast of Southern Florida

Directed Study: Gabby Comensanas ('18'). Investigating the variability in the age structure of rainbow smelt captured in Maine river systems.

Directed Study: Hannah Sihler ('18'). Identification, distribution and prevalence of the parasite, *Nitzschia sturionis*, on Atlantic sturgeon captured within the Saco River Estuary, Maine

2016-2017:

Honors Research student: Cameron Hodgdon ('17'). Seasonal movement patterns of the shortnose sturgeon (*Acipenser brevirostrum*) within the Saco River Estuary, Maine

Directed Study: Alicia Brown ('17'). Atlantic sharpnose shark (*Rhizoprionodon terraenovae*) age and growth in the Gulf of Mexico.

Directed Study: Riley Austin ('18'). An Assessment of Stress and Post Release Mortality in Bycaught Atlantic Cod in the GOM Commercial Lobster Fishery

Directed Study: Lars Hammer ('18'). Assessment of the Winter Flounder (*Pseudopleuronectes americanus*) Stock of the Saco River Estuary, Maine

Directed Study: Nora Wells ('18'). Assessing Reproductive Steroid Hormone Concentrations in lemon and sandbar sharks Captured off the Coast of Southern Florida

2017-2018:

Directed Study: Riley Austin ('18'). An Assessment of Stress and Post Release Mortality in Bycaught Atlantic Cod in the GOM Commercial Lobster Fishery

Directed Study: Lars Hammer ('18'). Assessment of the Winter Flounder (*Pseudopleuronectes americanus*) Stock of the Saco River Estuary, Maine

Directed Study: Nora Wells ('18'). Assessing Reproductive Steroid Hormone Concentrations in lemon and sandbar Sharks Captured off the Coast of Southern Florida

Honors Research student: Austin Flanagan ('19'). Seasonal movement patterns of the Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) within the Saco River Estuary, Maine

Directed Study: Abigail Hayne ('19'). Southern stingray (*Dasyatis americana*) age and growth in southern Florida.

Directed Study: Molly Sisk ('18'). Age estimates for rainbow smelt from three distinct Maine ecosystems.

Jasmine Nyce: ('20'). The Use of baited underwater cameras to assess the Saco Bay fish assemblage

Jen Knotek: ('20'). Using an experimental long line set to assess captured stress in lamnid sharks.

2018-2019:

Honors Research student: Austin Flanagan ('19'). Seasonal movement patterns of the Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) within the Saco River Estuary, Maine

Directed Study: Abigail Hayne ('19'). Southern stingray (*Dasyatis americana*) age and growth in southern Florida.

Jasmine Nyce: ('20'). The Use of baited underwater cameras to assess the Saco Bay fish assemblage

Jen Knotek: ('20'). Using an experimental long line set to asses captured stress in lamnid sharks.

2019-2020

Jasmine Nyce: ('20'). The Use of baited underwater cameras to assess the Saco Bay fish assemblage.
Nisi Jara-Aguirre ('21'): TBD

Amanda Einig ('21'): TBD

Juliana Kaloczi ('23'): TBD

Sarika Sawant: ('23'): TBD

UNIVERSITY SERVICE

Arizona State University: Fall of 2019 Chair of TT Stats/Bioinformatics position; Chair of Faculty RPT committee, New College Undergraduate Retention Committee, Grant Approval lead, Curriculum management lead, Course Assessment lead.

University of New England: College of Arts and Science Chair 2013-2014; Co-Chair: 2013-2015; Institutional Animal Care and Use and Committee, August 2006-2015 (Chair 2013-2015); Academic Curriculum Committee, 2008-2013; PhD Feasibility in Marine Science: 2009-2010.

EXTERNAL SERVICE

Current: IUCN (World Conservation Union): Appointed to the Species Survival Commission Shark Specialist Group. Advisory Board for Atlantic Shark Institute.

Past: May 2004-2019; Skate advisor for the New England Fishery Management Council, 2001-2019. Gulf of Maine Council on the Marine Environment, September 2007-2019; Board of Directors, Saco River Salmon Club, January 2008-2019; Board of Directors, American Elasmobranch Society, 2008-2013; Spiny dogfish advisor for the Mid Atlantic Fishery Management council, 2008-2019; South East Data, Assessment and Review Committee, (SEDAR) 2013-2019. New England Fisheries Management Council Science and Statistical Committee (SSC) 2017-2019.

TEACHING EXPERIENCE

2006-Present Biology of Fishes, Fisheries Biology, the Biology of Sharks Skates and Rays, Marine and Estuarine Field Techniques, Fish Ecology, Fisheries Biology, and the Physiological Ecology of Fish.
