

# David Seth Portnoy

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## **Preparation**

- 2002-2008 Ph.D. (Marine Science), The Virginia Institute of Marine Science, The College of William and Mary, Williamsburg, VA. Dissertation: Understanding the Reproductive Behavior and Population Condition of the Sandbar Shark (*Carcharhinus plumbeus*) in the Western North Atlantic: A Molecular Approach to Conservation and Management. Advisors: Jack Musick and John Graves
- 1994-1998 B.S. (Biology), The College of William and Mary, Williamsburg, VA.

## **Research Interests**

Population genomics of exploited marine fishes  
Marine connectivity and patterns of zoogeography  
Genomic approaches to fisheries research  
Systematics and evolution of elasmobranchs and bony fishes

## **Professional Experience**

- 2021-Present Coordinator of the Marine Biology Graduate Program, Department of Life Sciences, Texas A&M University – Corpus Christi, Corpus Christi, TX.
- 2019-Present Associate Professor, Department of Life Sciences, Texas A&M University – Corpus Christi, Corpus Christi, TX.
- 2019-Present Ruth A Campbell Professor of Marine Biology, Texas A&M University – Corpus Christi, Corpus Christi, TX.
- 2013-2019: Assistant Professor, Department of Life Sciences, Texas A&M University – Corpus Christi, Corpus Christi, TX.
- 2008-2013 Postdoctoral Research Associate and Visiting Lecturer, Texas A&M University, College Station, TX.
- 2002-2008 Research Assistant, Virginia Institute of Marine Science, Gloucester Point, VA
- 2001-2002 Research Technician, Boston University Marine Program, Woods Hole, MA
- 2000-2001 Research Assistant, Harvard Medical School, West Roxbury, MA

1999-2000 Intern, New England Aquarium, Boston, MA

**Teaching**

Summer 2023 Down the River: Biology of Gulf Coast Fishes, Texas A&M University – Corpus Christi, Instructor

Fall 2022 Ichthyology, Texas A&M University - Corpus Christi, Instructor.

Fall 2022 Genetics, Texas A&M University – Corpus Christi, Instructor.

Summer 2022 Down the River: Biology of Gulf Coast Fishes, Texas A&M University – Corpus Christi, Instructor

Fall 2021 Ichthyology, Texas A&M University - Corpus Christi, Instructor.

Fall 2021 Genetics, Texas A&M University – Corpus Christi, Instructor.

Summer 2021 Down the River: Biology of Gulf Coast Fishes, Texas A&M University – Corpus Christi, Instructor

Spring 2021 Ecology and Evolution of Fishes, Texas A&M University - Corpus Christi, Instructor (co-taught).

Spring 2021 Evolution and Genomics of Marine Organisms, Texas A&M University - Corpus Christi, Instructor

Fall 2020 Ichthyology, Texas A&M University - Corpus Christi, Instructor (co-taught).

Fall 2020 Genetics, Texas A&M University – Corpus Christi, Instructor.

Spring 2020 Ecology and Evolution of Fishes, Texas A&M University - Corpus Christi, Instructor (co-taught).

Spring 2020 Evolution and Genomics of Marine Organisms, Texas A&M University - Corpus Christi, Instructor

Fall 2019 Ichthyology, Texas A&M University - Corpus Christi, Instructor (co-taught).

Fall 2019 Genetics, Texas A&M University – Corpus Christi, Instructor.

Summer 2019 Down the River: Biology of Gulf Coast Fishes, Texas A&M University – Corpus Christi, Instructor.

Spring 2019 Ecology and Evolution of Fishes, Texas A&M University - Corpus Christi, Instructor (co-taught).

Spring 2019 Marine Genetics, Texas A&M University - Corpus Christi, Instructor.

Fall 2018 Ichthyology, Texas A&M University - Corpus Christi, Instructor (co-taught).

Fall 2018 Genetics, Texas A&M University – Corpus Christi, Instructor.

Summer 2018 Down the River: Biology of Gulf Coast Fishes, Texas A&M University – Corpus Christi, Instructor.

Spring 2018 Ecology and Evolution of Fishes, Texas A&M University - Corpus Christi, Instructor (co-taught).

Spring 2018 Marine Genetics, Texas A&M University - Corpus Christi, Instructor.

Fall 2017 Ichthyology, Texas A&M University - Corpus Christi, Instructor (co-taught).

Fall 2017 Genetics, Texas A&M University – Corpus Christi, Instructor.

Spring 2017 Ecology and Evolution of Fishes, Texas A&M University - Corpus Christi, Instructor (co-taught).

Spring 2017 Marine Genetics, Texas A&M University - Corpus Christi, Instructor.

Fall 2016 Ichthyology, Texas A&M University - Corpus Christi, Instructor (co-taught).

Fall 2016 Genetics, Texas A&M University – Corpus Christi, Instructor.

Summer 2016 Down the River: Biology of Gulf Coast Fishes, Texas A&M University – Corpus Christi, Instructor.

Spring 2016 Marine Genetics, Texas A&M University - Corpus Christi, Instructor.

Spring 2016 Professional Skills, Texas A&M University - Corpus Christi, Instructor.

Fall 2015 Ichthyology, Texas A&M University - Corpus Christi, Instructor (co-taught).

Summer 2015 Down the River: Biology of Gulf Coast Fishes, Texas A&M University – Corpus Christi, Instructor.

- Spring 2015 Ecology and Evolution of Fishes, Texas A&M University - Corpus Christi, Instructor (co-taught).
- Fall 2014 Ichthyology, Texas A&M University - Corpus Christi, Instructor (co-taught).
- Fall 2014 Mariculture, Texas A&M University - Corpus Christi, Guest Lecture (Instructor, J. Pollack).
- Fall 2014 Marine Ecology, Texas A&M University – Corpus Christi, Guest Lecture (Instructor, L. Smee).
- Spring 2014 Marine Genetics, Texas A&M University - Corpus Christi, Instructor.
- Fall 2013 Marine Ecology, Texas A&M University – Corpus Christi, Guest Lecture (Instructor, L. Smee).
- Spring 2009 Marine Fisheries, Texas A&M University, Instructor (co-taught).
- Fall 2009 Honors Genetics, Texas A&M University, Guest Lecture (Instructor, J. Gold).
- Spring 2008 Marine Molecular Genetics, The Virginia Institute of Marine Science, Guest Lecture (Instructor, J. Graves, J. McDowell & K. Reece).
- 2004-2008 Ichthyology, The Virginia Institute of Marine Science, Teaching Assistant
- Spring 2004 Organisms, Evolution and Ecology, The College of William and Mary, Williamsburg, VA, Teaching Assistant

### **Publications:**

75. Weber\*, D.N., Fields^, A.T., Chamberlin, D.W., Patterson, W.F. III, Portnoy, D.S. (2023) Epigenetic age estimation in a long-lived, deepwater scorpionfish: insights into epigenetic clock development. *Canadian Journal of Fisheries and Aquatic Sciences*, submitted.
74. Fields^, A.T., Hunt\*, E.P., Lanoue\*, K., Baxter, A., Sebby#, R., Tarkington, J., **Portnoy, D.S.** (2023) Development, verification and implementation of an eDNA detection assay for diamondback terrapins, *Malaclemys terrapin*. *Conservation Genetics Resources*, in revision.
73. Anderson, J.D., **Portnoy, D.S.**, Hajovsky, P. Barker, A.M., Swift^, D.G., Williford, D., Hollenbeck: C.M. (2023) The genomic context for management of Eastern Oysters *Crassostrea virginica* in the Gulf of Mexico includes long distance migration, admixture and deep underlying divergence. *Marine and Coastal Fisheries*, in revision.
72. **Portnoy, D.S.**, O’Leary, S.J., Fields^, A.T., Hollenbeck, C.M., Grubbs, R.D, Peterson, C.T., Gardiner, J.M., Adams, D.H., Falterman, B., Drymon, J.M., Higgs,

- J.M., Pulster, E.L., Wiley, T.R., Murawski, S.A. (2023) Complex patterns of genetic population structure in the mouthbrooding marine catfish, *Bagre marinus*, in the Gulf of Mexico and U.S. Atlantic. *Molecular Ecology*, in revision.
71. Hunt\*, E.P., Willis, S.C., Conway, K.W., **Portnoy, D.S.** (2023) Interrelationships among species of the New World genus *Sphoeroides* (Tetraodontiformes: Tetraodontidae) inferred using ultra-conserved DNA elements. *Molecular Phylogenetics and Evolution*, 189, 107935.
70. Swift\*, D.G., O'Leary, S.J., Grubbs, R.D., Frazier, B.S., Gardiner, J.M., Drymon, J.M., Bethea, D.M., Wiley, T.R., **Portnoy, D.S.** (2023). Philopatry influences the genetic population structure of the blacktip shark (*Carcharhinus limbatus*) at multiple spatial scales. *Molecular Ecology*, 32, 4953-4970.
69. Patterson III, W.F., Robinson, K., Barnett, B.K., Campbell, M., Chagaris, D.C., Chanton, J., Daly, K., Hanisko, D., Hernandez, F., Murawski, S., Pollock, A., **Portnoy, D.S.**, Pulster, E. (2023) Evidence of population-level impacts and resiliency for Gulf of Mexico Shelf taxa following the Deepwater Horizon Oil Spill. *Frontiers in Marine Science*, 10.
68. Frazier, B.S., Vineyard, E.A., Fields, A.T., Driggers, W.B. III, Adams, D.H., Drymon, J.M., Gardiner, J.M., Grubbs, R.D., Hueter, R.H., Wells, R.J.D., **Portnoy, D.S.** (2023) Age, growth and maturity of the bonnethead *Sphyrna tiburo* in the U.S. Gulf of Mexico. *Environmental Biology of Fishes*, 106, 1597-1617
67. Murawski, S.A., Schwing, P.T., Patterson, W.F. III, Sutton, T., Montagna, P.A., Miligan, R., Joye, S.B., Thomas, L., Kilborn, J.P., Paris, C.B., Faillettaz, R., **Portnoy, D.S.**, Gilbert, S. (2023) Vulnerability and resilience of living marine resources to the *Deepwater Horizon* Oil Spill: an overview. *Frontiers in Marine Science*, 10.
66. Flamino, R. Jr., Swift\*, D.G., **Portnoy, D.S.**, Chojnacki, K.A., DeLonay, A.J., Powell, J., Braaten, P.J., Heist, E.J. (2023) Haploid gynogens facilitate disomic marker development in paleotetraploid sturgeons, *Molecular Ecology Resources*, 2022.
65. Hollenbeck, C.M., **Portnoy, D.S.**, Garcia de la Serrana, D., Magnesen, Thorolf, Matejusova, I., Johnston, I.A. (2022) Temperature-associated selection linked to putative chromosomal inversion in king scallop (*Pecten maximus*). *Proceeding of the Royal Academy of Sciences B, Biological Science*, 289, 20221573.
64. Dalrymple, K.M., de Buron, I., Hill-Spanik, K.M., Galloway, A.S., Barker, A., **Portnoy, D.S.**, Frazier, B.S., Boerger, W.A (2022) Hexabothriidae and Monocotylidae (Monogeneoidea) from the gills of neonate hammerhead sharks (Sphyrnidae) *Sphyrna gilberti*, *Sphyrna lewini* and their hybrids from the western North Atlantic Ocean. *Parasitology*, Aug 9, 1-48.

63. Willis<sup>^</sup>, S.C., Saenz, D.E., Wang, G, Hollenbeck, C.M, **Portnoy, D.S.**, Cai, J.J., Winemiller, K.O. (2022). Gill transcriptome of the yellow peacock bass (*Cichla ocellaris monoculus*) exposed to contrasting physicochemical conditions. *Conservation Genetic Resources*, 2022.
62. Branham, C.C., Strange, J.B., Galloway, A., Frazier, B.S., **Portnoy, D.S.**, Fields<sup>^</sup>, A.T., Sancho, G. (2022) Diet of the bonnethead, (*Sphyrna tiburo*) along the northern Gulf of Mexico and southeastern Atlantic coast of the United States. *Animal Biodiversity Conservation*, 45, 257-267.
61. O’Leary<sup>^</sup>, S.J., Hollenbeck, C.M., Vega, R.R., Fincannon, A., **Portnoy, D.S.** (2022) Effect of spawning success and rearing-environment on genome-wide variation of red drum in a large stock-enhancement program. *Aquaculture*, 560, 738539.
60. Selwyn\*, J., Hunt\*, E.P., **Portnoy, D.S.**, Hogan, J.D. (2022) Maintenance of species boundaries within social aggregations of ecologically similar goby sister species. *Marine Biology*, 169, 32.
59. Willis, S.C., Puritz, J.B., Hollenbeck, C.M., **Portnoy D.S.** (2022) Genetic recruitment patterns are patchy and spatiotemporally unpredictable in a deep-water snapper (*Lutjanus vivanus*) sampled in fished and protected areas of western Puerto Rico. *Conservation Genetics*, 23, 435-447.
58. **Portnoy, D.S.**, Fields<sup>^</sup>, A.T., Puritz, J.B., Hollenbeck, C.M., Patterson, W.F. III (2022) Population genomic analysis of northern red snapper structuring in the U.S. Atlantic and Gulf of Mexico. *ICES Journal of Marine Science*, 79, 12-21. Editor’s Choice.
57. Dahl, K.A., Fields<sup>^</sup>, A., Robertson, A., **Portnoy, D.S.**, Grieme<sup>#</sup>, A., Lockridge, G., Patterson, W.F. III (2022) Factors affecting DNA barcoding classification accuracy for piscine prey: an experimental assessment with invasive lionfish. *Journal of Experimental Marine Biology and Ecology*, 547, 151675.
56. Weber\*, D.N, Fields<sup>^</sup>, A.T., Patterson, W.F. III, Barnett, B.K., Hollenbeck, C.M., **Portnoy, D.S.** (2022) Novel epigenetic age estimation in wild-caught northern Gulf of Mexico reef fishes. *Canadian Journal of Fisheries and Aquatic Sciences*, 79, 1-5. Editor’s Choice.
55. O’Leary<sup>^</sup>, S.J., Hollenbeck, C.M., Vega, R.R., **Portnoy, D.S.** (2021) Disentangling spatial, environmental, and demographic signals in population genomics of an exploited, estuarine-dependent flatfish. *Ecology and Evolution*, 11, 13415-13429.
54. Barker\*, A.M., Frasier, B.S., Adams, D.H., Bedore, C.N., Belcher, C.N., Driggers III, W.B., Galloway, A.S., Gelsleichter, J., Grubbs, R.D., Reyier, E.A., **Portnoy, D.S.** (2021) Distribution and relative abundance of scalloped (*Sphyrna lewini*) and

- Carolina (*S. gilberti*) hammerheads in the western North Atlantic Ocean. *Fisheries Research*, 242, 106039.
53. Keller, B.A., Putman, N.F., Grubbs, R.D., **Portnoy, D.S.**, Murphy, T. (2021). Map-like use of Earth's magnetic field in sharks, *Current Biology*, 31, 2881-2886.
  52. Hunt\*, E.P., Conway, K.W., Hamilton#, K., Hilton, E.J., Piller, K., Wright, J.J., **Portnoy, D.S.** (2021) Molecular phylogenetics of the chub suckers (Teleostei: Catostomidae: *Erimyzon*) inferred from nuclear and mitochondrial loci. *Ichthyology and Herpetology*, 109, 626-635.
  51. Osborne, M., **Portnoy, D.S.**, Fields^, A.T., Bean, M., Hoagstrom, C.W., Conway, K.W. (2021) Under the radar: genetic assessment of Rio Grande Shiner (*Notropis jemezanus*) and Speckled Chub (*Macrhybopsis aestvalis*), two Rio Grande endemic cyprinids that have experienced recent range contractions. *Conservation Genetics*, 22, 187-204
  48. Swift\*, D.G., **Portnoy, D.S.** (2021) Identification and delineation of essential fish habitat for elasmobranchs in estuaries on the Texas Coast. *Estuaries and Coasts*, 44, 788-800.
  50. Lyons, K., Galloway, A.S., Adams, D.H., Reyier, E.A., Barker\*, A.M., **Portnoy, D.S.**, Frazier, B.S. (2020) Maternal provisioning gives young-of-the-year hammerheads a headstart in early life. *Marine Biology*, 167, 1-13.
  49. Mendoza-Portillio\*, V., Galván-Tirado, C., **Portnoy, D.S.**, Valenzuela-Quiñonez, F., Domínguez, O.D., Durand, J.-D., Urbiola, J.C.P., García-De-León, F.J. (2020) Genetic diversity and structure of circumtropical almaco jack *Seriola rivoliana*: tool for conservation and management. *Journal of Fish Biology*, 97, 882-894.
  47. TinHan, T.C., O'Leary^, S.J., **Portnoy, D.S.**, Rooker, J.R., Gelphi, C., Wells, R.J.D. (2020) Natural tags identify nursery origin of a coastal elasmobranch, *Carcharhinus leucas*. *Journal of Applied Ecology*, 57, 1222-1232.
  46. **Portnoy, D.S.**, Fields^, A.T., Greer, J., Schlenk, D. (2020) Genetics and oil: transcriptomics, epigenetics and population genomics as tools to understand animal responses to exposure across different time scales. *In Deep Oil Spills: Facts, Fate Effects* (eds. Murawski, S.A., Ainsworth, C.H., Gilbert S., Holander, D.J., Paris, C.B., Shlüter M. and Wetzel, D.L.) Springer Nature, Switzerland.
  45. Boeck, H.M., Laramore, S.E., **Portnoy, D.S.**, Scarpa, J. (2019). Survey of Texas bay systems for the oyster parasites *Bonamia*, *Haplosporidium nelsoni*, and *Perkinsus marinus*. *Journal of Shellfish Research*, 38, 557-564.

44. Barker\* A.M., Frazier, B.S., Gelsleichter, J., Grubbs, R.D., Hollenbeck, C.M., **Portnoy D.S.** (2019) High rates of genetic polyandry in the blacknose shark, *Carcharhinus acronotus*. *Copeia*, **107**, 502-508.
43. Dimens\*, P.V., Willis^, S.C, Grubbs, R.D., **Portnoy D.S.** (2019) A genomic assessment of movement and gene flow around the South Florida vicariance zone in a migratory coastal shark. *Marine Biology*, 166, 86-96.
42. Barker\*, A.M., Adams, D.H., Driggers, W.B. III, Frazier, B.S., **Portnoy D.S.** (2019) Hybridization between sympatric hammerhead sharks in the western North Atlantic Ocean. *Biology Letters*, 15, 2019004.
41. Hollenbeck, C.M., **Portnoy, D.S.**, Gold, J.R. (2019) Evolution of population structure in an estuarine-dependent, marine fish. *Ecology and Evolution*, **9**, 3141-3152 .
40. Driggers, W.B. III, Campbell, M.D., Hanisko, D.S., Hannan, K.M., Hoffmayer, E.R., Jones, C.M. Pollack, A.G., **Portnoy, D.S.** (2018) Distribution of angel sharks (Squatinae) in United States waters of the western North Atlantic Ocean. *Fishery Bulletin*, 116, 337-347
39. O'Leary^, S.J., Puritz, J.B., Willis^, S.C., Hollenbeck, C.M., **Portnoy D.S.** (2018) These are not the loci you are looking for: Principles of effective SNP filtering for the molecular ecologist. *Molecular Ecology*, 27, 3193-3206.
38. Dahl\*, K.A., **Portnoy, D.S.**, Hogan, J.D., Johnson, J., Gold, J.R., Patterson, W.F. III (2018) Genotyping confirms significant cannibalism in northern Gulf of Mexico invasive red lionfish, *Pterois volitans*. *Biological Invasions*, 20, 3513-3526.
37. O'Leary^, S.J., Hollenbeck, C.M., Vega, R.R, Gold. J.R., **Portnoy. D.S.** (2018). Genetic mapping and comparative genomics to inform restoration enhancement and culture of southern flounder, *Paralichthys lethostigma*, *BMC Genomics*, 19, 1-11.
36. Barker\*, A.M., Frazier, B.S., Bethea, D.M., Gold. J.R., **Portnoy D.S.** (2017) Identification of young-of-the-year great hammerhead shark *Sphyrna mokarran* in northern Florida and South Carolina. *Journal of Fish Biology*, 91, 664-668.
35. **Portnoy, D.S.**, Willis^, S.C., Hunt\*, E., Swift\*, D., Gold, J.R, Conway, K.W. (2017) Molecular phylogenetics of New World searobins (Triglidae: Prionotinae). *Molecular Phylogenetic and Evolution*, 107, 382-387.
34. Hollenbeck^, C.M., **Portnoy D.S.**, Wetzel, D., Sherwood, T.A., Gold, J.R. (2017) Linkage mapping and comparative genomics for red drum (*Sciaenops ocellatus*) using next-generation sequencing. *G3: Genes, Genomes, Genetics*, 7, 843-850.



33. Willis<sup>^</sup>, S. C., Hollenbeck<sup>^</sup>, C. M., Puritz<sup>^</sup>, J. B., Gold, J.R., **Portnoy, D.S.** (2017) Haplotyping RAD loci: an efficient method to filter paralogs and account for linkage disequilibrium. *Molecular Ecology Resources*, 17: 955-965.
32. Puritz<sup>^</sup>, J. B., Gold, J. R., **Portnoy, D. S** (2016). Fine-scale partitioning of genomic variation among recruits in an exploited fishery: causes and consequences. *Nature: Scientific Reports*, 6, 36095.
31. **Portnoy, D.S.**, Hollenbeck<sup>^</sup>, C.M, Bethea, D.M., Frazier, B.S., Gelsleichter, J., Gold, J.R. (2016) Population structure, gene flow, and historical demography of a small coastal shark (*Carcharhinus isodon*) in U.S. waters of the western Atlantic Ocean. *ICES Journal of Marine Science*, 73, 2322-2332.
30. Selwyn\*, J.D, Hogan, J.D, Downey-Wall\*, A.M., Gurski\*, L.M. **Portnoy, D.S.** Heath, D. (2016) Kin-aggregations explain chaotic genetic patchiness, a commonly observed genetic pattern, in a marine fish. *Plos-One*, 11, e0153381.
29. Hollenbeck<sup>^</sup>, C.M., **Portnoy, D.S.**, Gold J.R. (2016) A method for detecting recent changes in contemporary effective population size from linkage disequilibrium at linked and unlinked loci. *Heredity*, 117, 207-216.
28. **Portnoy, D.S.**, Puritz, J.B., Hollenbeck\*, C.M., Gelsleichter, J., Chapman, D., Gold J.R. (2015) Selection and sex-biased gene flow: philopatric sorting of adaptive alleles in a coastal shark. *Molecular Ecology*, **24**, 5877-5885
27. Giresi\*, M.M., Grubbs, R.D., **Portnoy, D.S.**, Driggers, W.B. III, Jones, L., Gold, J.R. (2015) Identification and distribution of morphologically conserved smoothhound sharks (Genus *Mustelus*) in the northern Gulf of Mexico. *Transactions of the American Fisheries Society*, **144**, 1301-1310.
26. Hollenbeck\*, C.M., **Portnoy, D.S.**, Saillant, E., Gold, J.R. (2015) Population structure of red snapper (*Lutjanus campechanus*) in U.S. waters of the western Atlantic Ocean and the northeastern Gulf of Mexico. *Fisheries Research*, **172**, 17-25.
25. Hollenbeck\*, C.M, **Portnoy, D.S.**, Gold, J.R. (2015) A genetic linkage map of red drum (*Sciaenops ocellatus*) and comparison of chromosomal syntenies with four other fish species. *Aquaculture*, **435**, 265-274.
24. **Portnoy, D.S.**, Hollenbeck\*, C.M., Belcher, C.N., Driggers, W.B. III, Frazier, B.S., Gelsleichter, J., Grubbs, R.D., Gold, J.R. (2014) Contemporary population structure and post-glacial genetic demography in a migratory marine species, the blacknose shark, *Carcharhinus acronotus*. *Molecular Ecology*, **23**, 5480-5495.
23. **Portnoy, D.S.**, Hollenbeck\*, C.M., Vidal, R.R., Gold, J.R. (2014) A comparison of neutral and immune genetic variation in Atlantic Salmon, *Salmo salar* L. in Chilean aquaculture facilities. *PLOS-ONE*, 9, e99358.

22. **Portnoy, D.S.**, Hollenbeck\*, C.M., Johnston, J.S., Casman, H.M., Gold, J.R. (2014) Parthenogenesis in a reef whitetip shark *Triaenodon obesus* involves a reduction in ploidy. *Journal of Fish Biology*, **85**, 502-508.
21. Andersen\*, J.J., **Portnoy, D.S.**, Hafner, J.C., Light J.E. (2013) Populations at risk: conservation genetics of kangaroo mice (*Microdipodops*) of the Great Basin Desert. *Ecology and Evolution*, **3**, 2497-2513.
20. **Portnoy, D.S.**, Hollenbeck\*, C.M., Renshaw, M.A., Cummings, N.J., Gold, J.R. (2013) Does mating behaviour affect connectivity in marine fishes? Comparative population genetics of two protogynous groupers (Family Serranidae). *Molecular Ecology*, **22**, 301-313.
19. **Portnoy, D. S.**, Gold, J. R. (2013) Finding geographic population structure in marine fish species with high gene flow. *Gulf and Caribbean Fisheries Institute* **65**, 384-389.
18. Giresi\*, M.M., Grubbs, R.D., **Portnoy, D.S.**, Gold J.R. (2013) A morphological key to distinguish among smoothhound sharks (Genus *Mustelus*) in the Gulf of Mexico. *Gulf and Caribbean Fisheries Institute* **65**, 143-146.
17. Hollenbeck\*, C.M., **Portnoy, D.S.**, Gold, J.R. (2012) Use of comparative genomics to develop EST-SSRs for red drum (*Sciaenops ocellatus*). *Marine Biotechnology* **14**, 672-680.
16. **Portnoy, D.S.**, Gold, J.R. (2012) Evidence of multiple vicariance in a marine suture-zone in the Gulf of Mexico. *Journal of Biogeography* **39**, 1499-1507.
15. **Portnoy, D.S.**, Heist, E.J. (2012) Molecular markers: progress and prospects for understanding reproductive ecology in elasmobranchs. *Journal of Fish Biology* **80**, 1120-1140.
14. Giresi\*, M., Renshaw, M.A., **Portnoy, D.S.**, Gold, J.R. (2012) Development and characterization of microsatellite markers for the finetooth shark, *Carcharhinus isodon*. *Conservation Genetics Resources* **4**, 637-643.
13. Giresi\*, M., Renshaw, M.A., **Portnoy, D.S.**, Gold, J.R. (2012) Isolation and characterization of microsatellite markers for the blacknose shark, *Carcharhinus acronotus*. *Conservation Genetics Resources* **4**, 141-145.
12. Giresi\*, M., Renshaw, M.A., **Portnoy, D.S.**, Gold J.R. (2012) Isolation and characterization of microsatellite markers for the dusky smoothhound shark, *Mustelus canis*. *Conservation Genetics Resources* **4**, 101-104.
11. **Portnoy, D.S.**, Hollenbeck, C.M., Renshaw, M.A., Gold J.R. (2011) Microsatellite panels for gene localization in red drum, *Sciaenops ocellatus*. *Aquaculture*, **319**, 505-508.

10. Verissimo, A., Grubbs, R.D., McDowell, J.R., Musick, J.A., **Portnoy, D.S.** (2011) Frequency of multiple paternity in the spiny dogfish *Squalus acanthias* in the western North Atlantic. *Journal of Heredity* **102**, 88-93.
9. Renshaw, M.A., **Portnoy, D.S.**, Vidal, R., Gold, J.R. (2011) Isolation and characterization of microsatellite markers in the southern hake, *Merluccius australis*. *Conservation Genetics Resources* **3**, 91-94.
8. **Portnoy, D.S.**, Renshaw, M.A., Hollenbeck, C.M., Gold, J.R. (2010) A genetic linkage map of red drum, *Sciaenops ocellatus*. *Animal Genetics* **41**, 630-641.
7. **Portnoy, D.S.**, McDowell, J.R., Heist, E.J., Musick, J.A., Graves J.E. (2010) World phylogeography and male mediated gene flow in the sandbar shark, *Carcharhinus plumbeus*. *Molecular Ecology* **19**, 1994-2010.
6. **Portnoy, D.S.** (2010) Molecular insights into elasmobranch reproductive behavior for conservation and management. In *Sharks and Their Relatives II: Biodiversity, Adaptive Physiology and Conservation*. (eds. Carrier, J.C., Musick, J.A., Heithaus, M.R.) CRC Press, Boca Raton, FL, pp 435-457.
5. Renshaw, M.A., **Portnoy, D.S.**, Gold, J.R. (2010) PCR primers for nuclear-encoded microsatellites of the groupers *Cephalopholis fulva* (coney) and *Epinephelus guttatus* (red hind). *Conservation Genetics Resources* **11**, 1197-1202.
4. **Portnoy, D.S.**, McDowell, J.R., McCandless, C.T., Musick, J.A., Graves, J.E. (2009) Effective size closely approximates the census size in the heavily exploited western Atlantic population of sandbar sharks, *Carcharhinus plumbeus*. *Conservation Genetics* **10**, 1697-1705.
3. **Portnoy, D.S.**, Piercy, A.N., Musick, J.A., Burgess, G.H., Graves, J.E. (2007) Genetic polyandry and sexual conflict in the sandbar shark, *Carcharhinus plumbeus*, in the western North Atlantic and Gulf of Mexico. *Molecular Ecology* **16**, 187-197.
2. **Portnoy, D.S.**, McDowell, J.R., Thompson, K., Musick, J.A., Graves, J.E. (2006) Isolation and characterization of five dinucleotide microsatellite loci in the sandbar shark, *Carcharhinus plumbeus*. *Molecular Ecology Notes* **6**, 431-433.
1. Rice, A.N., **Portnoy, D.S.**, Kaatz, I.M., Lobel, P.S. (2001). Differentiation of pharyngeal muscles on the basis of enzyme activities in the cichlid *Tramitichromis intermedius*. *Biological Bulletin*, **201**, 258-260.

#Undergraduate Student, \* Graduate Student, ^ Postdoctoral Scholar

#### Book Reviews

1. Portnoy, D.S. "Rays of the World. P. R. Last, W. T. White, M. R. de Carvalho, B. Séret, M. F. W. Stehmann and G. J. P. Naylor, illustrations by L. Marshall. 2016. CSIRO Publishing. ISBN," Copeia

#### Conference Sessions

Murawski, S., Patterson III, W.F., Barbieri, Luiz & **Portnoy, D.S.** (2017) Impacts of the Deepwater Horizon and other large oil spills on fish and fisheries in the Gulf of Mexico. American Fisheries Society Annual Meeting, Tampa, FL, August 2017 (30 oral presentations)

Turner, T.F., Conway, K. & **Portnoy D.S.** (2017) From headwaters to the sea and karyotypes to genomes: a symposium in honor of John Gold. American Fisheries Society Annual Meeting, Tampa, FL, August 2017 (14 oral presentations)

Kostka, J., Konstantinidis, K. & **Portnoy, D.S.** (2017) Genomics and modeling of biological communities to improve predictions of ecosystem response to and mitigation of spilled oil. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA, February 2017 (22 oral presentations, 16 poster presentations)

Patterson III, W.F, **Portnoy, D.S.** & Murawski, S. (2017) Ecosystem structure, function and services: legacies of the Deepwater Horizon oil spill. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA, February 2017 (17 oral presentations, 33 poster presentations)

**Portnoy, D.S.** & Patterson III, W.F. (2016) Session 015: Ecological impacts of the Deepwater Horizon oil spill impacts across multiple scales. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa Bay, FL, February 2016 (23 oral presentations, 29 poster presentations)

### **Conference Abstracts**

119. Monroe<sup>^</sup>, A.A., Labare\*, M.F., Lanoue\*, K., Hollenbeck, C.M., **Portnoy, D. S.** (2023). Genomic tools for monitoring aquaculture-based enhancement efforts in the Gulf of Mexico. AFS Annual Meeting. Grand Rapids, MI, August 2023.

118. Weber\*, D.N, Fields<sup>^</sup>, A.T., Barnett, B, Chamberlin, D., Hollenbeck, C.M., Patterson, W.F. III, **Portnoy, D.S.** (2023) Epigenetic age estimation in wild-caught fishes: insights and implications for fisheries management. NMFS-Sea Grant Fellows Symposium. Silver Springs, MD, August 2023.

117. **Portnoy, D.S.**, Patterson, W.F. III, Hollenbeck, C. M. (2023) The genomic toolbox for fisheries management. Elasmobranch Fisheries Management Symposium. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023. Invited.

116. **Portnoy, D.S.**, Swift<sup>^</sup>, D.G., Hollenbeck, C.M., Grubbs, R.D., Hammerschlag, N., Guttridge, T.L. (2023) Conservation genomics of the great hammerhead in the western North Atlantic. A Tribute to Jack Musick Symposium. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023. Invited.

115. Swift<sup>^</sup>, D.G., Fields<sup>^</sup>, A.T., Grubbs, R.D., Feldheim, K.A., Gardiner, J.M., Drymon, J.D., **Portnoy, D.S.** (2023) Assessing for MHC-associated mate choice in the blacktip shark (*Carcharhinus limbatus*). A Tribute to Jack Musick Symposium. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023.
114. Bretzing-Tungate\*, R., Fields<sup>^</sup>, A.T., Hunt\*, E.P., Hollenbeck, C.M., Conway, K.W., Bean, M.G., Robertson, S.M., Smith, R., Mussmann, S., Portnoy, D.S. (2023) Conservation genomic assessment of the imperiled Leon Springs pupfish, *Cyprinodon bovinus*, across temporal and spatial scales. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023.
113. Labare\*, M.F., Monroe<sup>^</sup>, A.M., Lanoue\*, K., Fincannon, A.N., Anderson, J., Hollenbeck, C.M., Portnoy, D.S. (2023) Assessing populations of spotted seatrout in the Texas bay systems using Genotyping-in Thousands by sequencing. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023.
112. Dye\*, K.R., Conway, K.W., Bean, M.G., Pinion, A.K., Robertson, S.M., Hollenbeck, C.M., **Portnoy, D.S.** (2023) Conservation genomics of the Proserpine shiner, *Cyprinella proserpina*. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023.
111. Hunt\*, E.P., Conway, K.W., **Portnoy, D.S.** (2023). Phylogenetic relationships among the New World searobins (Triglidae: Prionotinae) inferred from UCE loci. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023.
110. Weber\*, D.N, Fields<sup>^</sup>, A.T., Chamberlin, D., Patterson, W.F. III, **Portnoy, D.S.** (2023) Influence of tissue type and biological information on the development and accuracy of epigenetic clocks in a deepwater scorpionfish. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023.
109. Fields<sup>^</sup>, A.T, Driggers, W.B. III, Frazier, B.S., Vinyard, E.A., Gelsleichter, J., Hendon, J.M., Higgs, J.M., **Portnoy, D.S.** (2023) Evidence for independent breeding groups in the highly vagile spinner shark found in putatively adaptive loci. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023.
108. Robson\*, O., **Portnoy, D.S.**, Giest, S., McAskill, S. (2023). Larval fish ingress and vertical distribution in the Aransas Pass Inlet system. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023.
107. Pinion, A.K., Kim, D., Hunt\*, E.P., **Portnoy, D.S.**, Conway, K.W. (2023) The many grains of the sand shiner: comparing traditional and high-throughput analyses of the

- Notropis stramineus* (Cope, 1865) species complex. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023.
106. Wyffels, J., Lyons, K., **Portnoy, D.S.**, Dudgeon, C., Feldheim, K. (2023) Unprecedented rates of parthenogenesis in ex situ zebra sharks. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norfolk, VA, July 2023.
105. Weber\*, D.N., Fields^, A.T., Chamberlin, D., Patterson, W.F. III, **Portnoy, D.S.** (2023) Epigenetic age estimation in a deepwater scorpionfish, blackbelly rosefish. Western Groundfish Conference, Juneau, AK, April 2023.
104. **Portnoy, D.S.**, Weber\*, D.N., Fields^, A.T., Patterson, W.F. III, Barnett, B.K., Hollenbeck, C.M. (2022) Epigenetic age estimation in would-caught Gulf of Mexico red snapper and red grouper. Indo-Pacific Workshop on Fish Ageing, Perth Australia, December 2022, Invited.
103. Conway, K.W., Kubicek, K.M., Bower, L., Carson, E.W., Pinion, A.K., Hunt\*, E.P., **Portnoy, D.S.** (2022) Integrative taxonomic investigation of *Cyprinella sp.* Neuces, a putative undescribed species of greatest conservation need in Texas. Desert Fishes Council Annual Meeting, St George, UT, November 2022.
102. Swift\*, D.G., Grubbs, R.D., Frazier, B.S, Ruiz-Abierno, A., Márquez-Farías, J.F., Lara-Mendoza, R.E., Cuervo Lopez, L., Guttridge, T.L., **Portnoy, D.S.** (2022) Assessing stocks of blacktip sharks across national boundaries in the western North Atlantic Ocean. American Fisheries Society, Spokane, WA. August 2022.
101. Fields^, A.T., Beeken\*, N.N., Hollenbeck, C.M., Wetzel, D., **Portnoy, D.S.** (2022). Epigenetic evidence of oil exposure in laboratory reared and wild red drum (*Sciaenops ocellatus*). Joint Meeting of the American Society of Ichthyologist and Herpetologists, Spokane, WA, July 2022.
100. Galloway, A., Lyons, K., Adams, D., Reyier, E., Bedore, C., Gelsleichter, J., Barker\*, A.M., **Portnoy, D.S.**, Frazier, B. (2022). Maternal provisioning and isotopic influence on young-of-year hammerheads along the Southeast U.S. Coast. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Spokane, WA, July 2022.
99. Monroe^, A., Lanoue, K., Patterson, W.F. III, Buckel, J., Anderson, E.D., Hollenbeck, C.M., **Portnoy, D.S.** (2022). Estimating Atlantic red snapper population size with genetic close-kin mark recapture. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Spokane, WA, July 2022.
98. Weber\*, D.N., Barnett, B., Hollenbeck, C.M, **Portnoy, D.S.** (2022) Population Genomics of Red Grouper (*Epinephelus morio*) in the Western North Atlantic and Gulf of Mexico. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Spokane, WA, July 2022.

97. Dye\*, K., Conway, K.W., Hollenbeck, C.M., Bean, M., Roberston, S., **Portnoy, D.S.** (2022). Conservation genomic assessment of imperiled freshwater fishes endemic to the Pecos and Devils Rivers. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Spokane, WA, July 2022.
96. Vinyard, E., **Portnoy, D.S.**, Driggers, W.B. III, Natanson, L., Hendon, J., Higgs, J., Gelsleichter, J., Frazier (2002). Age and growth of spinner sharks, *Carcharhinus brevipinna*, in the western North Atlantic Ocean. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Spokane, WA, July 2022.
95. Lanoue\*, K., Cotton, C., Grubbs, R.D., Hunt\*, E.P., **Portnoy, D.S.** (2022). Parental Analysis of Brood for the Mouthbrooding Marine Catfish, *Ariopsis felis*. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Spokane, WA, July 2022.
94. Kingon, K., **Portnoy, D.S.**, Ragobar, C., Kalpoo, N., Bejai, M., Issacs, J., Mangaroo, C., Naitrum, D. (2022) A spatial survey of the sharks and rays of Trinidad highlighting the threatened species. Meeting of the American Society of Ichthyologist and Herpetologists, Spokane, WA, July 2022.
93. Bretzing\*, R., Conway, K.W., Hollenbeck, C.M., Bean, M., Roberston, S., **Portnoy, D.S.** (2022). Hybridization and introgression of two imperiled headwater fishes, Leon Springs pupfish, *Cyprinodon bovinus*, and Pecos Gambusia, *Gambusia nobilis*. (2022). Meeting of the American Society of Ichthyologist and Herpetologists, Spokane, WA, July 2022.
92. Meek, M., Mamoozadeh, N., O’Leary, S., **Portnoy, D.S.**, & Mahapatra, N. (2022) Harnessing advances in artificial intelligence and genomics to enable scalable and field-deployable species identification capabilities. International Tuna Conference. Virtual meeting, May 2022.
91. Hollenbeck, C.M., Scarpa, J., **Portnoy, D.S.** (2021) Developing capacity for genetic improvement of eastern oyster in Texas. Aquaculture America - San Antonio, August 2021.
90. Weber\*, N., Fields^, A., Patterson, WF III, Barnet, B., Hollenbeck, C.M., **Portnoy, D.S.** (2021) Novel epigenetic age estimation in wild-caught northern Gulf of Mexico reef fishes. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Phoenix, AZ, July 2021.
89. Hunt\*, E., O’Leary, S., Conway, K., **Portnoy, D.S.** (2021). Genetic assessment of *Prionotus alatus* and *Prionotus paralatus* in the northern Gulf of Mexico. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Phoenix, AZ, July 2021.

88. Fields<sup>^</sup>, A., Driggers, W. III, Jones, C., **Portnoy, D.S.** (2021) Population structure of angel sharks in the western North Atlantic Ocean. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Phoenix, AZ, July 2021.
87. **Portnoy, D.S.**, O'Leary, S., Pulster, E., Murawski, S., Adams, D., Grubbs, R.D. (2021) Population structure of the gafftopsail catfish (*Bagre marinus*) in the US Atlantic and Gulf of Mexico. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Phoenix, AZ, July 2021.
86. Osborne, M., **Portnoy, D.S.**, Fields<sup>^</sup>, A., Hoagstrom, C., Conway, K. (2021) Genomic assessment of two imperiled Rio Grande basin endemics, Rio Grande shiner and speckled chub. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Phoenix, AZ, July 2021.
85. Frazier, B. Vineyard, E., Adams, D., Bethea, D., Driggers, W. III, Drymon, M., Fields<sup>^</sup>, A., Grubbs, R.D., Hendon, J., Hoffmayer, E., Hueter, R., Wells, R.D., **Portnoy, D.** (2021) Age, growth, and maturity of the bonnethead, *Sphyrna tiburo*, in the Gulf of Mexico. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Phoenix, AZ, July 2021.
84. Swift, D.G.\*, O'Leary<sup>^</sup>, S., Grubbs, R.D., Frazier, B., Gardiner, J., Drymon, M., Bethea, D., **Portnoy, D.S.** (2021) Delineation of blacktip shark genetic stock structure in the northern Gulf of Mexico. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Phoenix, AZ, July 2021.
83. Keller, B, Putnman, N. Grubbs, R.D., **Portnoy, D.S.** (2021) Map-like Use of Earth's Magnetic Field in Sharks. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Phoenix, AZ, July 2021.
82. Hunt\*, E.P., O'Leary<sup>^</sup>, S., Piller, K., Wright, J., Conway, K.W., **Portnoy, D.S.** (2020) Molecular phylogenetics of the North American chubsuckers (Catostomidae: *Erimyzon*) based on mitochondrial and nuclear loci. Texas Chapter of the American Fisheries Society, Annual Meeting, Waco. January 2020.
81. Beeken, N.\*, Fields, A.T.<sup>^</sup>, Wetzel, D., **Portnoy, D.S.** (2020) The effect of Deepwater Horizon Crude oil on DNA methylation patterns in would-caught juvenile red drum (*Sciaenops ocellatus*) in Louisiana estuaries. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa Bay, FL, February 2020.
80. Conway, K.W., Pinion, A.K., Carlos, A., **Portnoy, D.S.** (2019) Comparative Mitochondrial Genetic Investigation of Three Lower Rio Grande Endemic Species of Freshwater Fishes. Desert Fishes Council, Annual Meeting, Alpine, TX November 2019.



79. Bretzing, R.<sup>#</sup>, Hunt, E.P.\*<sup>\*</sup>, **Portnoy, D.S.** (2019) Comparative analysis of elasmobranch field identification using COI. Joint Meeting of the American Society of Ichthyologist and Herpetologist, Snowbird, UT July 2019.
78. O’Leary, S.J.<sup>^</sup>, Hollenbeck, C.M., Vega, R.R., Gold, J.R., **Portnoy, D.S.** (2019) Disentangling demographic, spatial, and environmentally driven signals in genomic data sets: an assessment of southern flounder, *Paralichthys lethostigma*. Joint Meeting of the American Society of Ichthyologist and Herpetologists, Snowbird, UT, July 2019.
77. Hunt, E.P.\*<sup>\*</sup>, Hamilton, K.<sup>#</sup>, O’Leary, S.J., Piller, K., Wright, J.J., Conway, K.W., **Portnoy, D.S.** (2019) Molecular phylogenetics of the genus *Erimyzon* (Family Catastomidae) based on mitochondrial and nuclear loci. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Snowbird, UT, July 2019.
76. Trejo, A.\*<sup>\*</sup>, O’Leary, S.J.<sup>^</sup>, Cotton, C., Murawski, S., **Portnoy, D.S.** (2019) Population structure of king snake eel (*Ophichthus rex*) throughout the Gulf of Mexico. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Snowbird, UT, July 2019.
75. Wallen, J.\*<sup>\*</sup>, O’Leary, S.J.<sup>^</sup>, Portnoy, **D.S.** (2019) Population structure of *Bagre marinus* in the Gulf of Mexico. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Snowbird, UT, July 2019.
74. Cooper, P.T.\*<sup>\*</sup>, O’Leary, S.J.<sup>^</sup>, **Portnoy, D.S.**, Nelson, T.R., Powers, S.P. (2019) An assessment of associations between patterns of salinity exposure and genomic diversity in a euryhaline fish. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Snowbird, UT, July 2019.
73. Galloway, A., Barker, A.M.\*<sup>\*</sup>, Bedore, C., Adams, D., Reyer, E., Gelsleichter, J., **Portnoy, D.S.**, Frazier, B. (2019) Trophic ecology of the scalloped and Carolina hammerheads in coastal waters of the southeastern U.S. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Snowbird, UT, July 2019.
72. Fields, A.<sup>^</sup>, Frazier, B., Drymon, M., Grubbs, R.D., Gelsleichter, J., Chapman, D., Ruiz, A., Hueter, R., Gardiner, J. **Portnoy, D.S.** (2019) Population Structure of the bonnethead shark (*Sphyrna tiburo*) in the western North Atlantic. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Snowbird, UT, July 2019.
71. Barker, A.M.\*<sup>\*</sup>, Adams, D., Bedore, C., Frazier, B., Gelsleichter, J., Kingon, K., **Portnoy, D.S.** (2019) Population structure and conservation genetics of scalloped hammerheads (*Sphyrna lewini*) in the U.S. Atlantic and Gulf of Mexico Joint Meeting of the American Society of Ichthyologists and Herpetologists, Snowbird, UT, July 2019.

70. Boeck, H.M.\*, Laramore, S.E., Portnoy, D.S., Scarpa, J. (2019) Oyster parasites *Bonamia* and MSX are not present in Texas bays. Aquaculture 2019, New Orleans, LA, March 2019.
69. Beeken, N.\*, Fields, A.T.^, Wetzel, D, **Portnoy, D.S.** (2019) The effect of Deepwater Horizon crude oil on DNA methylation patterns in wild-caught red drum (*Sciaenops ocellatus*) in Louisianan estuaries. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA, February 2019.
68. **Portnoy, D.S.**, Gilbert, S., Hotaling, L., Wetzel, D. (2019) Visualized genomics: making connections between organismal and population response to toxicant exposure. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA, February 2019.
67. Deak, K.\*, Dishaw, L., Walsh, C. Breitbart, M., **Portnoy, D.S.**, C. Pulster, E., Snyder, S., Murawski, S. (2019) Lessons learned from Gulf-wide evaluation of biomarker expression in red snapper and golden tilefish. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA, February 2019.
66. Deak, K.\*, Pulster, E., Snyder, S. Walsh, C., Breitbart, M., **Portnoy, D.S.**, Murawski, S. (2018) Gulf-wide biomarker variability in Golden Tilefish and Red Snapper: 2015-2017. Toxicology of Oil in Vertebrates Workshop. Boulder, CO. October 2018.
65. Swift, D.G.\*, Grubbs, R.D., Frazier, B.S., Bethea, D.M., **Portnoy, D.S.** (2018) Stock structure assessment of blacktip shark (*Carcharhinus limbatus*) in the U.S. Atlantic Ocean and Gulf of Mexico using high-throughput sequencing. American Fisheries Society Annual Meeting, Atlantic City, NJ, August 2018.
- 64 Cooper, P.T.\*, O’Leary, S.J.^, **Portnoy, D.S.**, Powers, S.P. (2018) Genomic Assessment of Population Sheepshead, *Archosargus probatocephalus*. American Fisheries Society Annual Meeting, Atlantic City, NJ, August 2018.
63. Barker, A.M.\*, Frazier, B.S., Adams, D.H. & **Portnoy, D.S.** (2018) Hybridization between a cryptic species pair, *Sphyrna lewini* and *Sphyrna gilberti*, in the western North Atlantic. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Rochester, NY, July 2018.
62. Morgan, T.\*, Willis, S.C., Farias, I.P., Covain, R., Mol, J.H., **Portnoy, D.S.** & López-Fernández, H. (2018) The biogeography and phylogenomics of *Geophagus* (Subfamily: Cichlinae) in the Guiana Shield. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Rochester, NY, July 2018.
61. Hunt, E.\*, Willis, S.C., Conway, K.W., & **Portnoy, D.S.** (2018) Phylogenomics of pufferfish in the genus *Sphoeroides* (Tetraodontiformes, Tetraodontidae). Joint

Meeting of the American Society of Ichthyologists and Herpetologists, Rochester, NY, July 2018.

60. Hamilton, K.<sup>#</sup>, O'Leary, S.J.<sup>^</sup>, Piller, K., Conway, K.W., & **Portnoy D.S.** (2018) Phylogenetic relationships within the genus *Erimyzon* (Family: Catostomidae) based on mitochondrial and nuclear loci. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Rochester, NY, July 2018.
59. **Portnoy, D.S.**, Barker, A.M.\* , Adams, D.H. & Frazier, B.S. (2018) Hybridization between a cryptic species pair, *Sphyrna lewini* and *Sphyrna gilberti*, in the western North Atlantic. Sharks International, João Pessoa, Brazil, June 2018.
58. Driggers, W.B. III, Campbell, M.D., Hannan, K.M., Hoffmayer, E.R., Jones, C.M., Pollack, A.G. & **Portnoy, D.S.** (2018) Distribution of angel sharks (Squatinae) in United States waters of the western North Atlantic Ocean. Mississippi Chapter of the American Fisheries Society Annual Meeting, Oxford, MS, February 2018.
57. Fields, A.T.<sup>^</sup>, Wetzel, D.L., Medvecky, R.L., Sherwood, T.A., & **Portnoy D.S.** (2018) Epigenomics of oil-exposed Red Drum (*Sciaenops ocellatus*). Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA, February 2018.
56. O'Leary, S.<sup>^</sup>, Murphy, A.E.<sup>#</sup>, & **Portnoy D.S.** (2018) Female-specific, highly-dense linkage map for golden tilefish. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA, February 2018.
55. **Portnoy, D.S.** (2018) Genomics for fisheries research. Texas Chapter of the American Fisheries Society Annual Meeting, College Station, TX, January 2018.
54. **Portnoy, D.S.**, Fields, A.T.<sup>^</sup>, Hollenbeck, C.M. Gold, J.R., Sherwood, T. & Wetzel, D. (2017) Genomic analysis of oil effects on exploited marine fishes. American Fisheries Society Annual Meeting, Tampa, FL, August 2017.
53. **Portnoy, D.S.**, Hollenbeck, C.M., O'Leary, S.J.<sup>^</sup>, Puritz, J.B., Willis, S.C.<sup>^</sup> & Gold, J.R. (2017) Genomics and fisheries management: studies in the northern Gulf of Mexico. American Fisheries Society Annual Meeting, Tampa, FL, August 2017.
52. O'Leary, S.J.<sup>^</sup>, Gold, J.R. & **Portnoy, D.S.** (2017) Population structure and patterns of connectivity of southern flounder, *Paralichthys lethostigma*, in the Gulf of Mexico and U.S South Atlantic. American Fisheries Society Annual Meeting, Tampa, FL, August 2017.
51. O'Leary, S.J.<sup>^</sup>, Snyder, S., Pulster, E, Murawski, S., Gold, J.R. & **Portnoy, D.S.** (2017) A comparison of gulf-wide population-level effects of oil exposure on the genetic diversity of a demersal, sedentary, deepwater-burrowing fish. (2017) American Fisheries Society Annual Meeting, Tampa, FL, August 2017.

50. Dahl, K.A.\*, Patterson III, W.F., **Portnoy, D.S.**, Hogan, J.D., Robertson, & A., Ortmann, A. (2017) DNA barcoding and microsatellite genotyping confirm extensive cannibalism in northern Gulf of Mexico lionfish. American Fisheries Society Annual Meeting, Tampa, FL, August 2017.
49. Dahl, K.A.\*, Patterson III, W.F., **Portnoy, D.S.**, Hogan, J.D., Robertson, A., & Ortmann, A. (2017) DNA barcoding and microsatellite genotyping confirm cannibalism in northern Gulf of Mexico invasive lionfish, *Pterois volitans*. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Austin, TX, July 2017.
48. Conway, K.W., Osbourne, M., Bean, M., & **Portnoy, D.S.** (2017) The plight of the Rio Grande Shiner, *Notropis jemezianus*, in the lower Rio Grande along the Texas/Mexico border. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Austin, TX, July 2017.
47. Shaw, A. Adams, D., Barker, A.\*, Bedore, C., Gelsleichter, J., **Portnoy, D.S.**, Reyier, Frazier, B. (2017) Trophic ecology and condition of sympatric hammerhead species in nursery habitats in the Southeast U.S. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Austin, TX, July 2017.
46. Willis S.C.^, Hollenbeck, C.M., Puritz, J.B., Gold, J.R., & **Portnoy, D.S.** (2017) Dispersal is limited by distance and depth in young-of-the-year, deep-water snappers (Lutjanidae) in the U.S. Caribbean as revealed by ddRAD population genomics. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Austin, TX, July 2017.
45. Willis S.C.^, Saenz, D., Wang, G., Hollenbeck. C.M., Cai, J., **Portnoy, D.S.**, & Winemiller, K. (2017) RNA-seq analysis to decipher mechanisms of osmoregulatory adaptation to divergent physicochemical conditions and its role in diversification of Amazon fishes. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Austin, TX, July 2017.
44. Dimens\*, P., **Portnoy, D.S.** (2017) Population structure of a migratory small coastal shark, *Carcharhinus acronotus*, across cryptic barriers to gene flow. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Austin, TX, July 2017.
43. **Portnoy, D.S.** (2017) Using genomics to understand impacts of the Deepwater Horizon oil spill. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA, February 2017.
42. O'Leary^, S.J., Gold, J.R., **Portnoy D.S.** (2017) Impacts of the Deepwater Horizon oil spill on the genetic diversity of a demersal, sedentary deepwater-burrowing fish. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA, February 2017.

41. Fields<sup>^</sup>, A.T., Puritz, J.B., Kulaw, D.H., Gold, J.R. & **Portnoy, D.S.** (2017) The effect of time, space and the Deepwater Horizon oil spill on genomic diversity in red snapper (*Lutjanus campechanus*). Gulf of Mexico Oil Spill and Ecosystem Science Conference, New Orleans, LA, February 2017.
40. Dahl\*, K.A., Patterson III, W.F., Robertson, A. Ortmann, A.C., **Portnoy, D.S.** and J. Hogan, D.J. (2016) DNA barcoding and microsatellite genotyping reveal cannibalism among invasive lionfish in the northern Gulf of Mexico. Gulf Estuarine Research Society 2016 Meeting. Pensacola, FL, November 2016.
39. Cooper\*, P., **Portnoy, D.S.**, and Powers, S.P. (2016) Examining population structure and disruptive selection in morphologically divergent groups of sheepshead, *Archosargus probatocephalus*: a genomic approach. Joint Meeting of the American Society of Ichthyologists and Herpetologists, New Orleans, LA, July 2016.
38. O'Leary<sup>^</sup>, S.J., Gold, J.R. and **Portnoy D.S.** (2016) Genomics as a tool for restoration enhancement of southern flounder. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA, July 2016.
37. Dimens\*, P.V. and Portnoy D.S. (2016) Population structure of a small coastal shark, the blacknose shark *Carcharhinus acronotus*, to cryptic barriers to gene flow. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA. July 2016.
36. Hunt\*, E.P., Willis<sup>^</sup>, S.C., Conway, K.W., and Portnoy D.S. (2016) Inferring the phylogenetic relationships within two genera of fishes: insights into the biogeography of the northern Gulf of Mexico. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA, July 2016.
35. Barker\*, A.M., Frazier, B.S., Adams, D.H., Gelsleichter, J., and **Portnoy, D.S.** (2016) Identification and relative abundance of cryptic hammerhead sharks. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA, July 2016.
34. Swift\*, D.G., and **Portnoy, D.S.** (2016). High-throughput sequencing for genetic monitoring and stock structure assessment of blacktip sharks (*Carcharhinus limbatus*). Joint Meeting of Herpetologists and Ichthyologists, New Orleans LA, July 2016.
33. Willis<sup>^</sup>, S.C., Hollenbeck, C.M., Puritz, J.B., **Portnoy, D.S.** and Gold, J.R. (2016). Low genomic divergence among king mackerel (*Scomberomorus cavalla*) in northern temperate waters of the western Atlantic Ocean revealed by ddRAD sequencing. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA, July 2016.
32. Hollenbeck<sup>^</sup>, C.M., **Portnoy, D.S.** and Gold, J.R. (2016) Population genomics of red drum, *Sciaenops ocellatus*. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA, July 2016.

31. Puritz<sup>^</sup>, J. B., **Portnoy, D. S.**, Gold, J. R. (2016) Mind the gap: the effects of INDELS and over-splitting on population genetic inference from RAD sequencing. Evolution, Austin, TX, June 2016.
30. Puritz<sup>^</sup>, J. B., **Portnoy, D. S.**, Gold, J. R. (2016) Testing the genomic impact of the DWH Oil Spill on red snapper. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa Bay, FL, February 2016.
29. O'Leary<sup>^</sup>, S.J., Gold, J.R. and **Portnoy D.S.** (2016) Potential genetic impacts of the Deepwater Horizon oil spill on a demersal, sedentary deepwater-burrowing species Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa Bay, FL, February 2016.
28. Hollenbeck, C.M., O'Leary, S.J., **Portnoy, D.S.** & Gold, J.R. (2016) Development of genomic resources for commercial and restoration aquaculture of red drum and southern flounder. World Aquaculture Society, Meeting, Las Vegas, NV, February 2016.
27. Puritz, J. B., **Portnoy, D. S.** & Gold, J. R. (2015) Variable patterns of genomic diversity in young-of-the-year Red Snapper (*Lutjanus campechanus*) in the northern Gulf of Mexico. Annual Meeting of the American Fisheries Society, Portland, OR, November 2015.
26. **Portnoy, D.S.**, Puritz, J.B., Hollenbeck, C.M. & Gold, J.R. (2015) Adaptive genetic variation and male-mediated gene flow in the bonnethead shark. Joint Meeting of Ichthyologists and Herpetologists, Reno, NV, July 2015.
25. Willis<sup>^</sup>, S.C., Hollenbeck<sup>^</sup>, C.M., Puritz<sup>^</sup>, J.B., **Portnoy, D.S.** & Gold, J.R. (2015) Identifying recruitment patterns among silk snapper (*Lutjanus vivanus*) off the west coast of Puerto Rico: challenges and solutions with using ddRADseq-based single nucleotide polymorphisms. Joint Meeting of Ichthyologists and Herpetologists, Reno, NV, July 2015.
24. Selwyn\*, J.D., **Portnoy, D.S.**, Heath, D.D., & Hogan J.D. (2015) Kin aggregations explain a commonly observed genetic pattern in a marine fish species. Joint Meeting of Ichthyologists and Herpetologists, Reno, NV, July 2015.
23. Barker\*, A.M, Gold, J.R. & **Portnoy, D.S.** (2015) Identification, stock assessment and habitat usage of cryptic hammerhead sharks. Joint Meeting of Ichthyologists and Herpetologists, Reno, NV, July 2015.
22. Dimens\*, PV, Gold, J.R. & Portnoy, **D.S.** (2015) Structural ambiguity: Population demography of the blacknose shark in the Florida Keys. Joint Meeting of Ichthyologists and Herpetologists, Reno, NV, July 2015.
21. **Portnoy, D.S.** & Gold, J.R. (2015) Oil spills, adaptation and gene flow: genomic insights for fisheries management in impacted systems. Gulf of Mexico Oil Spill and Ecosystem Science Conference, Houston, TX, Februarys 2015.

20. Hollenbeck<sup>^</sup>, C.M., Puritz<sup>^</sup>, J.B., **Portnoy, D.S.** & Gold, J.R. (2015) Genome-wide patterns of linkage disequilibrium in red drum. Plant and Animal Genome Conference XXIII, San Diego, CA, January 2015.
19. **Portnoy, D.S.**, Hollenbeck, C.M. & Gold J.R. (2014) Historical genetic demography and stock structure of the blacknose shark. Joint Meeting of Ichthyologists and Herpetologists, Chattanooga, TN, August 2014.
18. Giresi\*, M.M., **Portnoy, D.S.**, Grubbs, R.D., Driggers, W.B. III, Skomal, G.B., McCandless, C., Frazier, B., Renshaw, M.A., Gold, J.R. (2014) Genetic population structure of the dusky smoothhound shark, *Mustelus canis*, in U.S. Waters. Joint Meeting of Ichthyologists and Herpetologists, Chattanooga, TN, August 2014.
17. Willis<sup>^</sup>, S., Cummings, N., Puritz, J, **Portnoy, D.S.** & Gold J.R. (2014) Sources, sinks, SNPs, and snappers: population structure of deepwater snappers in protected and non-protected areas of Puerto Rico. Evolution, Raleigh, NC, June 2014.
16. Hollenbeck\*, C.M. **Portnoy, D.S.** & Gold J.R. (2013) Genomic tools for inferring population processes: linkage mapping in red drum. Annual Meeting of the American Fisheries Society, Little Rock, AR.
15. **Portnoy, D.S.**, Frazier B., Giresi, M. & Gold J.R. (2013) Genetic population structure of the finetooth shark (*Carcharhinus isodon*) in the U.S. Atlantic. Joint Meeting of Ichthyologists and Herpetologists, Albuquerque, NM.
14. **Portnoy, D.S.** & Gold, J.R. (2012) Finding geographic population structure in marine fish species with high gene flow. 65th Annual meeting of the Gulf and Caribbean Fisheries Institute, Santa Marta, Colombia.
13. Giresi\*, M., **Portnoy, D.S.** & Gold, J.R. (2012) Elucidating species composition of smoothhound sharks in the Gulf of Mexico. 65th Annual meeting of the Gulf and Caribbean Fisheries Institute, Santa Marta, Colombia.
12. **Portnoy, D.S.**, Cummings N.J. & Gold, J.R. (2012) Is connectivity related to adult reproductive behavior? A comparison of population structure in two protogynous groupers in the U.S. waters of the Caribbean Sea. Joint Meeting of Ichthyologists and Herpetologists, Vancouver, B.C., Canada.
11. **Portnoy, D.S.**, Conway, K.W., White\*, M.D. & Gold, J.R. (2012) Searobin hybridization revisited: molecular insights on the reported hybrid zone between *Prionotus alatus* and *P. paralatus* in the northern Gulf of Mexico, inferred from external morphology. Joint Meeting of Ichthyologists and Herpetologists, Vancouver, B.C., Canada.
10. **Portnoy, D.S.** & Gold, J.R. (2012) Complex population structure in species with high gene flow: lessons from genetic assessment of stock structure in exploited snappers. Sixth World Fisheries Congress. Edinburgh, Scotland.

9. Hollenbeck\*, C.M., **Portnoy, D.S.** & Gold, J.R. (2012) Design of expressed-sequence tag-linked microsatellites for non-model aquacultured species. The Plant and Animal Genome XX Conference. San Diego, CA.
8. **Portnoy, D.S.** & Gold, J.R. (2011) Evidence of a surprisingly recent vicariant event in a geologically active suture-zone in the Gulf of Mexico. Joint Meeting of Ichthyologists and Herpetologists. Minneapolis, MN.
7. Giresi\*, M., Renshaw, M.A., **Portnoy, D.S.** & Gold, J.R. (2011) Preliminary assessment of stock structure in *Mustelus canis* in U.S. waters. Joint Meeting of Ichthyologists and Herpetologists. Minneapolis, MN.
6. **Portnoy, D.S.**, Hollenbeck, C.M. & Gold, J.R. (2011) Linkage mapping in the red drum, *Sciaenops ocellatus*. Texas Bays and Estuaries Meeting, Port Aransas, TX.
5. **Portnoy, D.S.** (2007) Effective number of breeders for sandbar sharks, *Carcharhinus plumbeus* (Nardo, 1827), using two nursery areas in the western North Atlantic. Joint Meeting of Ichthyologists and Herpetologists. St. Louis, MO.
4. **Portnoy, D.S.** (2006) Patterns of polyandry and reproductive skew in the sandbar shark, *Carcharhinus plumbeus*, in the western North Atlantic. Joint Meeting of Ichthyologists and Herpetologists. New Orleans LA.
3. **Portnoy, D.S.** (2005) Detection of polyandry and reproductive periodicity in the sandbar shark, *Carcharhinus plumbeus*. Abstract. Joint Meeting of Ichthyologists and Herpetologists. Tampa, FL.
2. Shumway, C.A., Hofmann, H., Sorocco, D., **Portnoy, D.S.**, Wakafumbe, R. & Kaufman, L. (2000). How does social and habitat complexity affect brain structure? Third International Conference on Complex Systems, Nashua, NH.
1. Shumway, C.A., **Portnoy, D. S.** & Dunning, A. (2000) Sex, eyes and videotape: comparing visual recognition in cichlid Fishes. Society of Neuroscience Abstracts. 567(18).

#Undergraduate Student, \* Graduate Student, ^ Postdoctoral Scholar

### **Research Funding**

(When noted MGL=Portnoy lab portion, TAMUCC=University portion, Total= grant total. If not noted MGL portion = grant total)

2023: Conservation Genomics of the Comanche Springs Pupfish (*Cyprinodon elegans*) **David S Portnoy**, Kevin W. Conway (\$64,293).

2023: South Carolina Sea Grant. Estimation of Atlantic red snapper population size, Phase III. William Patterson, Jeff Buckel, **David S Portnoy** (MGL: \$181,109; Total: \$1,354,950).



- 2023: Saltonstall-Kennedy Grant Program, NOAA. Molecular Approaches to Sex-Identification in Reef Fishes from Non-Invasive Tissue Sample. **David S Portnoy**, Christopher Hollenbeck, William Patterson (\$298,639).
- 2023: Shark Conservation Fund. Assessing the Recovery of the Smalltooth Sawfish: A Kin-based Approach. **David S Portnoy**, and Christopher Hollenbeck (\$376,132).
- 2023: Palacios Marine Agricultural Research Inc. Evaluating Reproductive Timing, Population Genetics, and Disease Load in Texas Oysters. Larry McKinney Christopher Hollenbeck, **David S Portnoy** (MGL: \$370,522).
- 2023: State Wildlife Grant. TX-FISH-DNA: A regionally-focused DNA barcode interface to enhance identification, monitoring, and biosecurity of TX Gulf Coast fishes. Kevin W. Conway, **David S Portnoy** (MGL: \$31,841, Total: \$99,918).
- 2022: Texas Sea Grant. Fine-scale genetic monitoring of eastern oyster population structure for aquaculture, fisheries management, and restoration. Christopher Hollenbeck, **David S Portnoy**, and Keisha Bahr (\$258,496).
- 2022: South Carolina Sea Grant. Estimation of Atlantic red snapper population size, Phase II. William Patterson, Jeff Buckel, **David S Portnoy** (MGL: \$524,725, Total: \$1,700,000).
- 2022: Texas Sea Grant. Using population genomics to inform stock enhancement and ecosystem-based management of spotted seatrout, *Cynoscion nebulosus*. **David S Portnoy**, and Christopher Hollenbeck (\$216,992).
- 2022: State Wildlife Grant. Conservation genomic assessment of imperiled freshwater fishes endemic to the Pecos and Devils Rivers. **David S Portnoy**, Kevin W. Conway (\$104,993).
- 2021: Section 6 Grant, Texas Parks and Wildlife. Conservation genomics of Pecos pupfish (*Cyprinidon pecosensis*). **David S Portnoy**, Kevin W. Conway (\$47,161).
- 2021: National Science Foundation. NSF Convergence Accelerator Track E: Empowering Stakeholders from Ship to Store--Solving Fishery Management Challenges with Use-Inspired Genomic and Artificial Intelligence Tools. Mariah Meek, Nihar Mahapatra, **David S Portnoy**, Christopher Hollenbeck, Shannon O'Leary (MGL \$113,154, Total: \$749,255).
- 2021: Saltonstall-Kennedy Grant Program, NOAA. Methylation-Based Aging: An Efficient Approach to Mass-ageing Fisheries Species. **David S Portnoy**, Christopher Hollenbeck, William Patterson (\$297,986).

- 2021: Marine Fisheries Initiative Program, NOAA. Ageing error, age validation, and genetic ageing of a suite of Gulf of Mexico reef fishes. William Patterson, **David S Portnoy**, Christopher Hollenbeck (MGL: \$214,062, Total: \$522,301).
- 2021: USDA-NIFA. Building foundations for genetic improvement of Eastern oyster in Texas. Chris Hollenbeck, **David S Portnoy** (\$320,000).
- 2021: South Carolina Sea Grant. Estimation of Atlantic red snapper population size. William Patterson, Jeff Buckel, **David S Portnoy** (MGL \$692,717, Total: \$1,500,000).
- 2021: Marine Fisheries Initiative Program; In-House, NOAA. Combining genetics, otolith sharp analysis, and FT-NIR spectroscopy to differentiate between morphologically conserved congeners – scamp, *Mycteroperca phenax* and yellowmouth grouper, *Mycteroperca interstitialis*. Beverly Barnett, Skyler Sagarese, Francesca Forrestal, **David S Portnoy** and Christopher Hollenbeck (MGL: \$83,178, Total: \$139,178).
- 2021: Save Our Seas Foundation. Collaborating with locals to assess scalloped hammerhead (*Sphyrna lewini*) nurseries and develop community-supported conservation goals. Kelly Kingon and **David S Portnoy** (MGL: \$22,448, Total: \$75, 516).
- 2020: Foundation for Food and Agricultural Research. Next-generation tools and strategies for genetic improvement of farmed oysters. Christopher Hollenbeck, **David S Portnoy** (\$445,122).
- 2020: CBBEP/ Development, verification and implementation of an eDNA detection assay for diamondback terrapins in the Texas Costal Bend. Aaron Baxter and **David S Portnoy** (\$31,858).
- 2020: The Nature Conservancy. Hybrid Headwater Fishes. **David S Portnoy** and Christopher Hollenbeck (\$36,284).
- 2020: Florida Wildlife Commission. Invasive lionfish genome mapping: First steps toward facilitating population control via gene editing. PIs William Patterson, **David S Portnoy** and Christopher Hollenbeck (MGL: \$88,905, Total: \$95,112).
- 2020: Discovery Channel. Hazmat Production. Monsters Under the Bridge Project, PI **David S Portnoy** (\$10,000).
- 2020: NMFS-Sea Grant Population and Ecosystem Dynamics Graduate Fellowship (David Nicholas Weber Jr). Applying Genomic Techniques to Fisheries Management: A Focus on Exploited Groupers (Family Serranidae) PI **David S Portnoy** (\$107,491).

- 2019: State Wildlife Grant, TPWD. Genomic tools for determining abundance and distribution of *Menidia clarkhubbsi*: Phase 1. PIs J. Derrek Hogan, **David S. Portnoy** and Kevin Conway (\$100,000).
- 2019: State Wildlife Grant, TPWD. SNP-panels for monitoring output for southern flounder and other TPWD hatchery species. PI **David S Portnoy** (\$92,981).
- 2018: Marine Fisheries Initiative Program, NOAA. Population structure, connectivity, and life history of three exploited groupers (Family Serranidae) in the U.S. South Atlantic and Gulf of Mexico. PIs **David S Portnoy** and Shannon O'Leary^ (\$346,978).
- 2018: Cooperative Research Program, NOAA. Stock structure and life history of the spinner shark, *Carcharhinus brevipinna*, in U.S. waters. PIs **David S Portnoy** and Bryan Frazier (\$187,515).
- 2018: State Wildlife Grant, TPWD. Characterization of sex-determining regions in southern flounder and other TPWD hatchery species. PIs **David S Portnoy** and Shannon O'Leary^ (\$98,574).
- 2018: TPWD, Genotyping of hatchery broodfish. PI, **David S Portnoy** (\$9,950).
- 2018: Gulf of Mexico Research Institute. C-IMAGE-III, PI Steve Murawski, Genomics component. Co-PI **David S Portnoy** (MGL: \$105,108; TAMUCC: \$138,500; Total: \$5,098,032).
- 2017: Mississippi-Alabama Sea Grant Consortium. Estimating the absolute abundance of red snapper in the U.S. Gulf of Mexico, PI Greg Stunz, Genomics Component. Co-PI **David S Portnoy** (MGL: \$50,000; TAMUCC: \$9,300,605).
- 2017: State Wildlife Grant, TPWD. Identification and delineation of critical shark nursery habitat surrounding Corpus Christi Bay. PI **David S. Portnoy** (\$9,655).
- 2017: TPWD, Genotyping of hatchery broodfish. PI, **David S Portnoy** (\$9,950).
- 2016: TPWD, Genotyping of hatchery broodfish. PI, **David S Portnoy** (\$9,950).
- 2016: State Wildlife Grant Identification of shark nurseries along the Texas coast. Co-PIs, David Wells and **David S Portnoy** (MGL: \$37,964; Total: \$100,000.)
- 2016: Saltonstall-Kennedy Grant Program, NOAA. Stock structure and life history of the bonnethead, *Sphyrna tiburo*, in U.S. waters. Co-PIs, Bryan Frazier and **David S Portnoy** (MGL: \$145,074, Total: \$282,498).
- 2016: Cooperative Research Program, NOAA. Post-release survivorship and life history traits of scalloped and great hammerhead sharks from U.S. Atlantic waters. Co-

- PIs, R. Dean Grubbs, James Gelsleichter, Bryan Frazier and **David S Portnoy** (MGL: \$32,909, Total: \$249,073).
- 2016: Texas OneGulf. Restoring and enhancing structurally complex nursery habitat to enhance reef fish populations, PI Antoinetta Quigg, Genomics component. Co-PI **David S Portnoy** (MGL: \$23,098, Total: \$223,752)
- 2015: State Wildlife Grant, TPWD. Population structure, connectivity, and genetic demographics of southern flounder (*Paralichthys lethostigma*) in Texas bays and estuaries. Co-PIs, **David S. Portnoy** and John R. Gold (\$64,452).
- 2015: Texas Research and Development Fund. Impacts of sewage effluent on genomic diversity and connectivity of marine intertidal communities. Co-PIs, **David S. Portnoy**, John R. Gold and Jonathan B. Puritz (\$20,000).
- 2015: Gulf of Mexico Research Institute. C-IMAGE-II, PI Steve Murawski, Genomics Component. Co-PIs, **David S Portnoy** and John R Gold (MGL: \$305,105; TAMUCC: \$1,116,000; Total: \$20,247,046).
- 2015: TPWD. Genotyping of hatchery broodfish. Co-PIs, **David S Portnoy** and John R Gold (\$9,950).
- 2014: State Wildlife Grant, TPWD. Identification and delineation of critical shark nursery habitat surrounding Corpus Christi Bay. PI **David S. Portnoy** (\$75,486).
- 2014: State Wildlife Grant, TPWD. A genetic map of southern flounder (*Paralichthys lethostigma*). Co-PIs, John R Gold and **David S. Portnoy** (\$47,580).
- 2014: Cooperative Research Program, NOAA. Genetic monitoring and stock structure of two large coastal sharks, using high throughput next-generation sequencing. Co-PIs, **David S. Portnoy** and John R. Gold (\$157,709).
- 2014: Competitive State Wildlife Grant, U.S. Fish and Wildlife Service. Relative abundance and trophic ecology of two sympatrically distributed sphyrnids, the scalloped hammerhead (*Sphyrna lewini*) and the recently discovered Carolina hammerhead (*Sphyrna gilberti*) within known nurseries off the East Coast of the United States. Co-PIs, Bryan Frazier, **David S. Portnoy** and John R. Gold (MGL: \$150,251, Total: \$394,948).
- 2014: Cooperative Endangered Species Conservation Fund, TPWD. On the brink yet under the radar: rapid conservation genetic assessment of the highly imperiled Rio Grande shiner (*Notropis jemezanus*) and development of management tools. Co-PIs, Kevin W. Conway, **David S. Portnoy** and John R. Gold (MGL: \$32,692, Total: \$67,083).
- 2014: College-Level Faculty Research Enhancement Grant. Co-PIs **David S. Portnoy**, Yong-Woo Lee and Mark Fisher (\$2,700).

- 2012: Sea Grant Aquaculture Research, NOAA. Use of next generation DNA sequencing to inform regulatory decisions regarding spatial sites for marine aquaculture in the Gulf of Mexico. Co-PIs, John R. Gold and **David S. Portnoy** (\$218,050).
- 2012: Marine Fisheries Initiative Program, NOAA. Stock structure, connectivity, and effective population size of red snapper (*Lutjanus campechanus*) in U.S. waters of the Gulf of Mexico. Co-PIs, John R. Gold and **David S. Portnoy** (\$243,940).
- 2012: Cooperative Research Program, NOAA. Stock structure of the smooth dogfish (*Mustelus canis*) in U.S. waters. Co-PIs, John R. Gold and **David S. Portnoy** (\$95,744).
- 2012: Cooperative Research Program, NOAA. Population genetic and demographic studies of three deep-water snapper species inside and outside of marine protected areas (MPAs) off the west coast of Puerto Rico. Co-PIs, John R. Gold and **David S. Portnoy** (\$189,878).
- 2011: Cooperative Research Program, NOAA. Stock structure of finetooth shark (*Carcharhinus isodon*) in U.S. waters. Co-PIs, John R. Gold and **David S. Portnoy** (\$93,808).
- 2010: Saltonstall-Kennedy Grant Program, NOAA. Population structure, gene flow and genetic demography of the blacknose shark (*Carcharhinus acronotus*) in U.S. waters and genetic marker development for the smooth dogfish (*Mustelus canis*). Co-PIs, John R. Gold and **David S. Portnoy** (\$240,463).
- 2010: Cooperative Research Program, NOAA. Development of genetic markers for blacknose (*Carcharhinus acronotus*) and finetooth (*Carcharhinus isodon*) sharks. Co-PIs, John R. Gold and **David S. Portnoy** (\$86,419).
- 2010: Cooperative Research Program, NOAA. Re-evaluation of reproductive biology and population structure of the blacknose shark *Carcharhinus acronotus* in U.S. waters. CoPIs, James Gelsleichter University of North Florida, and **David S. Portnoy** (\$12,362).
- 2007: Lerner Gray Fund for Marine Research. Using molecular markers and acoustic tagging to understand the reproductive biology of the sandbar shark, *Carcharhinus plumbeus* (Nardo 1827). **David S. Portnoy** (\$1,300).
- 2006: VIMS Eastern Shore Student Grant. Using molecular markers and acoustic tagging to understand reproductive periodicity and philopatry in the sandbar shark, *Carcharhinus plumbeus*. **David S. Portnoy** (\$3,788).
- 2000: Prescott Fund for Marine Conservation Research. Reducing bycatch: exploring cod visual responses to nets. Co-PIs, Caroly Shumway, Christopher Glass and **David S. Portnoy** (\$10,000).

^ Postdoctoral Scholar

## Awards

2003: William J. Hargis, Jr. Fellowship Award (\$1,100), The Virginia Institute of Marine Science, Gloucester Point, VA.

2002-2005: School of Marine Science Fellowship (Tuition and Stipend- \$80,000), The Virginia Institute of Marine Science, Gloucester Point, VA.

**Graduate Student Committee Membership:**

1. Ahern, Beth^ (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
2. Andrews, Jen^ (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
3. Barker, Amanda\*^ (Ph.D.), Department of Life Sciences, Texas A&M – Corpus Christi
4. Beeken, Natalie\*^ (MSc.) Department of Life Sciences, Texas A&M – Corpus Christi
5. Boeck, Hailey^ (Msc.) Department of Life Sciences, Texas A&M – Corpus Christi
6. Bretzing-Tungate, Robert\*(MSc.) Department of Life Sciences, Texas A&M – Corpus Christi
7. Bynum, Adam^ (MSc.) Department of Life Sciences, Texas A&M – Corpus Christi
8. Chelikowsky, Derrick (Ph.D.) Department of Life Sciences, Texas A&M – Corpus Christi
9. Castanier, Jessie\*^ (MSc.) Department of Life Sciences, Texas A&M – Corpus Christi
10. Cooper, Pearce (Ph.D.), University of South Alabama
11. Deak, Kristina^ (Ph.D.), University of South Florida
12. Dimens, Pavel\*^ (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
13. Downey-Wall, Alan^ (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
14. Dahl, Kristen^ (Ph.D.), School of Natural Resources and the Environment, University of Florida.
15. Dye, Kayla\* (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
16. French, Martin^ (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
17. Gottesman, Hannah (Ph.D.) School of Forests, Fisheries and Geomatic Sciences, University of Florida.
18. Gurski, Lauren^ (Ph.D.), Department of Life Sciences, Texas A&M – Corpus Christi
19. Heim, Heidi^ (Ph.D.), Department of Life Sciences, Texas A&M – Corpus Christi
20. Hunt, Lizz\*(MSc.^, Ph.D.), Department of Life Sciences, Texas A&M – Corpus Christi
21. Jayarajan, Rijith^ (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
22. Johnson, Kendall (Ph.D.), Department of Life Sciences, Texas A&M – Corpus Christi
23. Kibler, Geoffrey^ (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
24. King, Cragen^ (MSc.), Texas A&M University, College Station
25. Lanoue, Katherine\* (MSc.) Department of Life Sciences, Texas A&M – Corpus Christi
26. Labare, Michaela\* (Ph.D.), Department of Life Sciences, Texas A&M – Corpus Christi
27. Mendoza, Veronica^ (Ph.D.), Centro de Investigaciones Biológicas del Noroeste
28. Moy, Rachel\* (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi

29. Norris, Bryan<sup>^</sup> (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
30. Oster, Jacob (Ph.D.), Department of Life Sciences, Texas A&M – Corpus Christi
31. Roy Roberts<sup>^</sup> (MSc.) Department of Life Sciences, Texas A&M – Corpus Christi
32. Robson, Olivia\* (MSc.) Department of Life Sciences, Texas A&M – Corpus Christi
33. Selwyn, Jason<sup>^</sup> (Ph.D.), Department of Life Sciences, Texas A&M – Corpus Christi
34. Saini, Deepjot\*<sup>^</sup> (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
35. Schaidt, Kaylee\* (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi
36. Steele, Anna (Ph.D.) University of Trinidad and Tobago
37. Swift, Dom\*<sup>^</sup> (Ph.D.), Department of Life Sciences, Texas A&M – Corpus Christi
38. Trejo, Aline\* (MSc.) Department of Life Sciences, Texas A&M – Corpus Christi
39. Wallen, Julia\* (MSc.) Department of Life Sciences, Texas A&M – Corpus Christi
40. Walker, Waylon\* (MSc.) Department of Life Sciences, Texas A&M – Corpus Christi
41. Weber, Alison (PhD.) Department of Life Sciences, Texas A&M – Corpus Christi
42. Webber, David\* (Ph.D.) Department of Life Sciences, Texas A&M – Corpus Christi
43. White, Macauley<sup>^</sup> (MSc.), Department of Life Sciences, Texas A&M – Corpus Christi

\* Advisor, \*\*Co-Advisor, <sup>^</sup> Graduated

### **Graduate Faculty Representative:**

Mitchell, Karl (Ph.D.), Counselor Education, Texas A&M – Corpus Christi

### **Other Student Mentorship**

Giresi, Melissa<sup>^</sup> (Ph.D.), Department of Biology, Texas A&M University

Hollenbeck, Chris<sup>^</sup> (Ph.D.) Department of Genetics, Texas A&M University

### **Undergraduate Researchers**

Kyris Matula, 2023-current

Darian Paul<sup>†</sup>, 2022-current

Riley Seby 2021-current

Katherine Lanoue\* 2020-2021

Zoie Lalonde, Spring 2019-2020

Robert Bretzing-Tungate\*<sup>#</sup>, Spring 2019-2020

Alex Grieme, Fall 2017-Spring 2019

Kat Hamilton\*, Spring 2018

Julia Wallen, Fall 2016-Summer 2017

Osagie Vigilant, Spring 2017-Summer 2017

Elizabeth Murphy, Summer 2015- Summer 2017

Marina Partain, Summer 2015 – Spring 2016

Alex Negrete, Summer 2015- Fall 2015

\*McNair Scholar, <sup>#</sup>LSAMP, <sup>†</sup>Honors

### **Graduate Student Research Awards**

Dye, Kayla            Texas Sea Grant Grants in Aid for Student Research (2022-2024)

Weber, Nick            NOAA Sea Grant Fellowship (2020-2023)

Swift, Dom	Texas Sea Grant Grants in Aid for Student Research (2020-2021)
Weber, Nick	Texas Sea Grant Grants in Aid for Student Research (2020-2021)
Swift, Dom	Texas Sea Grant Grants in Aid for Student Research (2019-2020)
Swift, Dom	Save Our Seas Foundation (2019-2020)
Swift, Dom	Texas Sea Grant Grants in Aid for Student Research (2018-2019)
Barker, Amanda	Texas Sea Grant Grants in Aid for Student Research (2015-2016)
Dimens, Pavel	Texas Sea Grant Grants in Aid for Student Research (2015-2016)
Swift, Dom	Texas Sea Grant Grants in Aid for Student Research (2015-2016)

### **Professional Public Outreach**

Spring 2017 Speaker, Marine Science Day – St Patrick School  
 Spring 2016 Panelist, Dispatches from the Gulf- Corpus Christi Museum of Science and History  
 Spring 2014 Speaker, Ocean Science Month – St. James Episcopal School  
 Spring 2014 Speaker, West Oso ISD Career Day  
 Summer 2020 Featured on, Monster Under the Bridge, Discovery Channel  
 Spring 2022 Guest, A Talk on the Wild Sid Podcast

### **Service**

Faculty Search Committee, Marine Fisheries (Fall 2013)  
 Faculty Search Committee, Marine Genomics (Spring 2014)  
 Faculty Search Committee, Early Life History of Fishes (Fall 2014)  
 Faculty Search Committee, Professional Assistant Professor (Summer 2016)  
 Faculty Search Committee, CRI Hire (Spring 2018)  
 Faculty Search Committee, Marine Biologist (Fall 2018-Spring 2019)  
 Faculty Search Committee, Conservation Biologist (Spring 2020)  
 Faculty Search Committee, Chair, Mariculture (Spring 2021)  
 Faculty Search Committee, Mariculture (Fall 2021)  
 Dean of Life Sciences Search Committee (Fall 2021)  
 Faculty Search Committee, Marine Biology (Spring 2023)  
 CRI Aquaculture Genetics Proposal Committee (2015)  
 NSF MRI Internal Competition Committee (Spring 2019)  
 FFAR Internal Competition Committee (Spring 2020)  
 Island Day (2014-2020)  
 Science and Engineering Scholarship Committee (2015-2017)  
 Scientific Communications, Course Design Committee (Fall 2018)  
 Science and Engineering Curriculum Committee (2017-2019)  
 Genomics Core Board (2013-present)  
 University Scholarship Committee (2015-2023)  
 MARB IDP Curriculum Committee (2016-present)  
 University Academic Integrity Committee (2019-2022)  
 MARB Executive Committee (2019-present)  
 Wes Tunnel Distinguished Lecturers Selection Committee (2020-present)  
 Horizon Growth 2030 College of Science Strategic Plan Task Force (2023-2024)  
 MARB coordinator (Summer 2021-present)



FAMA Awards Committee (ad hoc)  
MARB Faculty  
FAMA Faculty  
BIOL Faculty

### **Other Service**

Contributor to the Biodiversity Research and Teaching Collections, Texas A&M  
Participant in 2013 Tri-national Initiative Meeting  
Participant in 2014 Elasmobranch Population Genetics Workshop  
Participant in 2015 Gulf of Mexico Sea Turtle Workshop  
Participant in 2016 Gulf of Mexico Red Snapper Workshop  
Student Poster Awards Committee at 2016 Joint Meeting of Ichthyologists and Herpetologists  
Gruber, Student Awards Committee at 2017 Joint Meeting of Ichthyologists and Herpetologists  
Tech-Surge Panelist at 2018 Gulf of Mexico Oil Spill & Ecosystem Science Conference.  
Invited Speaker, Continuing Education Session, Texas Chapter of the American Fisheries Society Annual Meeting, 2018.  
Review Panel, Florida Restore Program, 2018.  
Invited Speaker, NMFS Fisheries Observer Program Training, 2018.  
Texas Parks and Wildlife, Sharks and Rays Working Group, 2019  
GoMRI Synthesis Core Area 3 Workshop Participant, 2019  
SEDAR68 Scamp Stock ID Genetics Working Group, 2019  
Reviewer, Texas Sea Grant, Grant-In-Aid Program, 2020, 2022  
SEDAR74 Red Snapper Stock ID Genetics Working Group, 2020-2021  
SEDAR77 Hammerhead Stock ID Genetics Working Group, 2019-2022  
NMFS Atlantic Highly Migratory SEDAR Workshops Advisory Panel, 2021-present  
Indo-Pacific Fish Ageing Workshop Participant, Perth Australia, 2022  
Optimizing Fisheries Independent Surveys in the Gulf of Mexico Project, Novel Sampling Approaches Subcommittee, 2022-2023  
NMFS Atlantic Highly Migratory Species Southeast Data, Assessment, and Review (SEDAR) Workshops Advisory Panel, 2021-Present  
Invited Speaker, Georgia Aquarium, 2023  
Invited Speaker, University of Florida Fisheries and Aquatic Sciences Symposium 2023  
Associate Editor for Frontiers in Marine Science, 2022 to present.  
Review Panel, Living Earth, French National Research Agency (ANR), 2023  
Thesis Reviewer, Murdoch University, Western Australia, 2023

### **Professional Affiliations**

American Society of Ichthyologists and Herpetologists  
American Elasmobranch Society  
American Fisheries Society

### **Peer-reviews**

*Aquaculture, Aquatic Biology, Aquatic Living Resources, Biology Letters, Bulletin of Marine Science, Canadian Journal of Fisheries Research, Conservation Genetics, Copeia, Endangered Species Research, Environmental Biology of Fishes, Fisheries Research, Frontiers in Marine Science (editorial board member), Genetica, Genome Biology and Evolution, Gulf of Mexico Science, Heredity, ICES Journal of Marine Science, Journal of Aquaculture Research & Development (past editorial board member), Journal of Experimental Marine Biology, Journal of Fish Biology, Journal of Heredity, Journal of the Marine Biological Association of the United Kingdom, Marine Ecology Progress Series, Molecular Biology Reports, Molecular Ecology, Molecular Ecology Resources, Molecular Phylogenetics and Evolution, Nature – Scientific Reports, PLOS-ONE, Southeastern Naturalist (guest subject editor)*