TEXAS STATE VITA

I. Academic/Professional Background

A. Name: JESSICA DUTTON **Title:** ASSOCIATE PROFESSOR

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
Ph.D.	2012	Stony Brook University	Marine and Atmospheric Sciences	Factors influencing metal accumulation in estuarine fish
M.Phil.	2010	Stony Brook University	Marine and Atmospheric Sciences	
M.A.	2006	Queens College	Geology	Developing tools for paleoseismology in the submarine environment
B.Sc. (Hons)	2000	Swansea University, UK	Marine Biology	

C. University Experience

Position	*University*	*Dates*
Associate Professor	Texas State University, TX	2021-present
Assistant Professor	Texas State University, TX	2015-2021
Assistant Professor	Adelphi University, NY	2012-2015
Visiting Assistant Professor	Adelphi University, NY	2011-2012
Adjunct Professor	Suffolk County Community College, NY	2009-2013
Adjunct Professor	Adelphi University, NY	2010-2011
Adjunct Instructor	Stony Brook University, NY	2005-2006
Instructional Assistant	Stony Brook University, NY	2004-2005
Lab Instructor	Queens College, NY	2003-2004

D. Relevant Professional Experience

Position	*Entity*	*Dates*
Mercury expert (contract)	Environmental Integrity Project, Washington DC	2022-present
Researcher for the Ocean Friendly Seafood Guide	Blue Ocean Institute, NY	2007-2009

E. Other Professional Credentials (licensure, certification, etc.)

2023 CITI Program – Basic Biosafety (includes animals) (expires 10/28/2026)
2023 CITI Program – Hazard Communication (expires 10/28/2026)
2023 CITI Program – Occupational Health and Safety Program (expires 10/28/2026)
2023 CITI Program – Human Research (Biomedical Research) (expires 5/5/2025)
2023 CITI Program – Human Research (Social and Behavioral Research) (expires 5/5/2025)
2023 CITI Program – Working with the IACUC (expires 4/1/2026)
2023 CITI Program – Working with Fish in Research Settings (expires 4/1/2026)
2022 Texas Sea Grant Fishing Tournament Weighmaster Training Program
2020 Texas State University Online Teaching Certification

II. TEACHING

A. Teaching Honors and Awards

2021 Texas State University College of Science and Engineering Excellence in Teaching Award (Recipient)
2014 Adelphi University 2014 Excellence in Teaching Award (Nominated)

B. Courses Taught

Texas State University
Aquatic Toxicology (BIO 4350N, 3341; in person and online)
Biological Oceanography (BIO 4350Q)
Marine Resources (BIO 4350S, 3371; in person and online)
Biology and Conservation of Sharks (BIO 4350W, 4337)
Marine Pollution (BIO 7103C; in person and online)
Aquatic Toxicology (BIO 7440; lecture and lab; in person and online)
Undergraduate Research (BIO 4299)
Research Experience (BIO 5114, 5214, 5314)
Thesis (BIO 5399A, 5199B, 5299B, 5399B, 5999B)
Research (BIO 7303)
Research Experience (BIO 7114, 7314)
Problems in Aquatic Resources (BIO 7302)
Dissertation (BIO 7199A, 7299A, 7399A, 7999A)

Adelphi University
Social Science and Environmental Problems (ENV 101)
Natural Science and Environmental Problems (ENV 102/EAS 110; in person and hybrid)
Environmental Geology (ENV/EAS 104)
Physical Geology (ENV 109/EAS 102; lecture and lab)
Introduction to the Oceans (ENV/EAS 205)
Environmental Science (ENV/EAS 301; lecture and lab)
Marine Resources (ENV/EAS 323)
Capstone: Environmental Toxicology and Public Health (ENV 410)
Principles of Toxicology (ENV 570)

Undergraduate Independent Study (ENV 491)
Undergraduate Guided Research (ENV/EAS 498)
Undergraduate Internship (ENV 420)
Graduate Independent Study (ENV 591)
Graduate Thesis Research (ENV 799)

Suffolk County Community College
Introduction to Oceanography (MAR 105; lecture and lab)
Principles of World Climate (MET 102, lecture and lab)
Modern Biology I (BIO 150; lecture only)
Zoology (BIO 141; lab only)

C. Graduate Theses/Dissertations, Honors Theses, or Exit Committees
Ph.D. Dissertation Advisor, Completed
Meaghan McCormack (Ph.D. Aquatic Resources and Integrative Biology; 2021) Utilizing multidisciplinary methods to understand trace element accumulation in northern Gulf of Mexico odontocetes **Graduate College Doctoral Research Support Fellowship recipient ($5,000)*

Ph.D. Dissertation Committee Member, Completed
Jennifer Idema (Ph.D. Aquatic Resources and Integrative Biology; 2021) Exploring the communication of climate change socioscientific issues in aquarium exhibits

Ph.D. Dissertation Committee Member, In-Progress
Saika Anne (Ph.D. Aquatic Resources and Integrative Biology) Metal cell biology of infectious disease causing fungus, *Pseudogymnoascus destructans* (Pd)
Chironjib Singha Samanta Chandan (Ph.D. Aquatic Resources and Integrative Biology) Chemical communication and maternal stress in striped bass.
Carson Black (Ph.D. Applied Anthropology) Influence of anthropogenic activities associated with artisanal small-scale gold mining operations on the gut biome of western chimpanzees (*Pan troglodytes verus*) at Fongoli, Senegal

Graduate Thesis Advisor, Completed
Liam McInerney (M.S. Aquatic Resources; 2023) Comparison of mercury concentrations in fishes and shellfishes from Matagorda Bay and San Antonio Bay, Texas
Jasmine Rodriguez (M.S. Aquatic Resources; 2023) Trophic ecology and environmental conditions affect mercury concentrations in immature sharks in Texas bays. Co-advised with Dr. Weston Nowlin.
Natalie Pitman (M.S. Aquatic Resources; 2023) Selenium:mercury molar ratios in muscle and organs of immature sharks in Texas bays
Dillan Wulf (M.S. Aquatic Resources; 2023) Presence of plastics in the gastrointestinal tract of sharks in Texas bays
Kyle Krebs (M.S. Aquatic Resources; 2022) Mercury concentrations and tissue distribution in waterbirds overwintering in Texas

Michaela Livingston (M.S. Aquatic Resources; 2022) Trace element concentrations among functional feeding groups in the estuarine food web in Middle Hempstead Bay, Long Island, New York
Jacob Ketchum (M.S. Aquatic Resources; 2021) Bioaccumulation and maternal transfer of mercury in sharks off the southeastern United States and in the northern Gulf of Mexico
Joseph Bakker (M.S. Aquatic Resources; 2021) Monitoring changes in trace element concentrations in *Amblema plicata* in the Guadalupe River basin (Texas, USA) using a caged transplant experiment
Matthew Parker (M.S. Wildlife Biology; 2020) An examination of occupancy on a coastal refuge and mercury concentrations in Texas bats. Co-advised with Dr. Sarah Fritts. **Graduate College Thesis Research Support Fellowship recipient ($1,613)*
Kristyn Cunningham (M.S. Aquatic Resources; 2019) Intra- and interspecies variability in mercury concentrations in Texas marine fish and shellfish
Taylor Gold Quiros (M.S. Aquatic Resources; 2018) Mercury concentrations in fishes from the Guadalupe River, Texas: Relationships with body length and trophic position
Stacey Britton (M.S. Aquatic Resources; 2018) Impact of environmental contaminants on the threeridge mussel (*Amblema plicata*) in the Guadalupe River basin, Texas. Co-advised with Dr. Astrid Schwalb.

Graduate Thesis Advisor, In-Progress
Aubree Rybak (M.S. Biology) TBD
Lacey Parker (M.S. Aquatic Resources) TBD
Torri Weeks (M.S. Aquatic Resources) TBD
Jewel Rehkopf (M.S. Biology) Non-thesis
Joseph Kuntz (M.S. Aquatic Resources) Mercury and selenium concentrations in offshore fishes in the northwestern Gulf of Mexico
Jordan Daniels (M.S. Aquatic Resources) Spatial variability in selenium:mercury molar ratios and selenium health benefit values in fishes and shellfishes from the Matagorda Bay system and San Antonio bay

Graduate Thesis Committee Member, Completed
Ashley Hendrix (M.S. Biology; 2022; Texas State University) Non-thesis
Melody Martinez (M.S. Aquatic Resources; 2020; Texas State University) Effects of environmental nitrite in goldfish (*Carassius auratus*) chemical communication
Aaron Bakker (M.S. Environmental Biology; 2016; Hofstra University) Trace element accumulation in horseshoe crab (*Limulus polyphemus*) egg, embryo and larvae through maternal transfer and surrounding nesting substrate
Gina Amitrano (M.S. Environmental Studies; 2014; Adelphi University) Sustainable solutions for business practices in industry

Graduate Thesis Committee Member, In-progress
Waverly Wadsworth (M.S. Wildlife Ecology) Spatial variation and environmental drivers of methylmercury in macroinvertebrate communities in a complex river basin

Honors Thesis Supervisor, Completed
Jessica Hobbs (2020; Texas State University) Global assessment of mercury concentrations in whale sharks **Undergraduate Research Fellowship recipient ($1,000)*
Maria Vessia (2014; Adelphi University) Estuarine pollution and the importance of anatomy in local fish of the west end of Jones Beach, Long Island, New York
Shivali Malkani (2014; Adelphi University) The advantages and disadvantages of aquaculture
Zoë Gold (2013; Adelphi University): Feeding a sustainable future: a need for alternatives to corporate agriculture

Honors Thesis Committee Member, Completed
Ashley Corbeil (2015; Adelphi University) Rare earth elements and the challenge of sustainability
Meaghan McCormack (2013; Adelphi University) Diving into the world of whale communication and surfacing reinvented

Undergraduate Biology Capstone Thesis Committee Member, Completed
Gabrielle Bruno (2014; Adelphi University) The interactive effects of temperature and retinoic acid concentration on somite development in *Danio rerio*

HSI STEM Undergraduate Research Experience (SURE) Advisor, Completed
Michaela Livingston (2018) Mercury accumulation in young-of-the-year and juvenile bull sharks (*Carcharinus leucas*) from Sabine Lake, Texas

Internship Supervisor (BIO4481), Completed
Aneysa Moreno (2021)

D. Courses Prepared and Curriculum Development
Texas State University
Aquatic Toxicology (BIO 4350N, 3341; in person and online)
Biological Oceanography (BIO 4350Q)
Marine Resources (BIO 4350S, 3371; in person and online)
Biology and Conservation of Sharks (BIO 4350W, 4337)
Natural History of America (BIO 4351E)
Marine Ecology and Conservation (BIO 4351F)
Marine Mammals, Reptiles, and Birds (BIO 4351N)
Marine Pollution (BIO 7103C, 7104; in person and online)
Environmental Issues through Documentaries (BIO 7105)
Aquatic Toxicology (BIO 7440; lecture and lab; in person and online)

Adelphi University
Social Science and Environmental Problems (ENV 101)
Natural Science and Environmental Problems (ENV 102/EAS 110; in person and hybrid)
Environmental Geology (ENV/EAS 104)
Physical Geology (ENV 109/EAS 102; lecture and lab)
Introduction to the Oceans (ENV/EAS 205)
Environmental Science (ENV/EAS 301; lecture and lab)

Marine Resources (ENV/EAS 323)
Capstone: Environmental Toxicology and Public Health (ENV 410)
Principles of Toxicology (ENV 570)

Suffolk County Community College
Introduction to Oceanography (MAR 105; lecture and lab)
Principles of World Climate (MET 102, lecture and lab)
Modern Biology I (BIO 150; lecture only)
Zoology (BIO 141; lab only)

E. Funded External Teaching Grants and Contracts
N/A

F. Submitted, but not Funded, External Teaching Grants and Contracts
N/A

G. Funded Internal Teaching Grants and Contracts

2022	Dutton J (PI). Study in America Program Development Grant to create a marine ecology and conservation field course in South Florida ($3,088)
2018-2019	Dutton J (PI). Study in America Program Development Grant to create a natural history and marine ecology field course in Alaska ($4,322)

H. Submitted, but not Funded, Internal Teaching Grants and Contracts
N/A

I. Other

Guest lecturer

November 2017	How I became a scientist. Biology Department, Texas State University
March 2015	Metals and sediments (graduate sediments course), Environmental Studies Program, Adelphi University
October 2014	Introduction to Environmental Studies Graduate Seminar, Environmental Studies Program, Adelphi University
October 2013	Introduction to Environmental Studies Graduate Seminar, Environmental Studies Program, Adelphi University

Professional development

2018	National Research Mentoring Network (NRMN) research mentor training workshop
2018	NRMN culturally aware mentor training workshop
2018	Allies training
2015-2016	Program for Excellence in Teaching and Learning, Texas State University

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press)

1. Books (if not refereed, please indicate)
a. Scholarly Monographs
N/A

b. Textbooks
N/A

c. Edited Books
N/A

d. Chapters in Books
(Corresponding author is underlined)

Baptista, M., C. Figueiredo, C. Lopes, P. Reis Costa, J. Dutton, D.H. Adams, R. Rosa, and J. Raimundo (2020) Biotoxins, trace elements, and microplastics in ocean sunfishes (Molidae). In T. Thys, J. Houghton, and G. Hays (Eds.) *The Ocean Sunfishes: Evolution, Biology and Conservation* (pp. 186-215). Boca Raton, FL: CRC Press.

Hays, G.C., J.D.R. Houghton, T.M. Thys, D.H. Adams, A.E. Ahuir-Baraja, J. Alvarez, M. Baptista, H. Batista, N. Baylina, K.E. Bemis, W.E. Bemis, E. Caldera, G. Carnevale, C.D. Carson, J. Pedro Correia, P. Reis Costa, O. Daly, J. Davenport, J. Dutton, L.E. Eagling, C. Figueiredo, K. Forsgren, M. Freese, S. Garcia-Barcelona, C. Harrod, A. Hearn, L. Hellenbrecht, E.J. Hilton, M.J. Howard, R. Kelly, L. Kubicek, C. Lopes, T. Mowatt-Larssen, R. McBride, I. Nakamura, T. Nakatsubo, E. Nixon, M. Nyegaard, E. Ostalé-Valriberas, L. Pellegrino, N.D. Phillips, E.C. Pope, I. Potter, J. Raimundo, M. Riis, R. Rosa, J.P. Ryan, E. Sawai, G. Shinohara, D.W. Sims, L.L. Sousa, C. Taura, E. Tholke, K. Tsukamoto, J.C. Tyler, Y.Y. Watanabe, K.C. Weng, J. Whitney, Y. Yamanoue, and K.S. Ydesen (2020) Unresolved questions about the ocean sunfishes, Molidae – a family comprising some of the world's largest teleosts. In T. Thys, J. Houghton, and G. Hays (Eds.) *The Ocean Sunfishes: Evolution, Biology and Conservation* (pp. 280-296). Boca Raton, FL: CRC Press.

e. Creative Books
N/A

2. Articles

a. Refereed Journal Articles

(*, §, and ‡ denotes undergraduate student, M.S. student, and doctoral student, respectively; corresponding author is underlined)

Parker, M.C.§, S.R. Fritts, S.P. Weaver, M.B. Meierhofer, and J. Dutton (2024) Inter- and intraspecific variability of total mercury concentrations in bats of Texas (USA). *Environmental Research* 259:119570

O'Shaughnessy, K.A., L. Vilizzi, W. Daniel, M.E. McGarrity, H. Bauer, L. Hartman, S. Geiger, P. Sammarco, S. Kolian, S. Porter, J. Dutton, M.R. McClure, M. Norberg, A. Fogg, T.J. Lyons, J. Procopio, L. Bantista, W. Bennett, M. Wicksten, D. Reeves, J. Lively, E. Robinson, J. Brenner, J. Goy, A. Morgan-Olvera, A.L.E. Yunnie, and G.H. Copp (2023) Horizon scanning for potentially invasive non-native marine species to inform trans-boundary conservation management – example of the northern Gulf of Mexico. *Aquatic Invasions* 18(4):415-453

Dutton, J., J.C. Hobbs*, S-J. Joung, and J.V. Schmidt (2023) Mercury concentrations in whale shark (*Rhincodon typus*) embryo muscle tissue. *Bulletin of Environmental Contamination and Toxicology* 111:23

Dutton, J. (2023) Relationship between trace element concentrations and body length in dolphinfish (*Coryphaena hippurus*) in the northwest Atlantic Ocean. *Environmental Science and Pollution Research* 30(37):87757-87767

McCormack, M.A.‡, W.E. McFee, H.R. Whitehead, S. Piwetz, and J. Dutton (2022) Exploring the use of non-destructive SEM-EDS analysis to measure the distribution of major, minor, and trace elements in bottlenose dolphin (*Tursiops truncatus*) teeth. *Biological Trace Element Research* 200(5):2147-2159

Fielding, R., K. Schiavone, and J. Dutton (2022) Salting reduces mercury concentrations in odontocete muscle tissue. *Caribbean Journal of Science* 52(1):1-15

McCormack, M.A.‡, W.H. Nowlin, and J. Dutton (2022) Effect of trophic position on mercury concentrations in northern Gulf of Mexico bottlenose dolphins (*Tursiops truncatus*). *Environmental Research* 204, Part B:112124

Fielding, R., J.J. Kiszka, C. Macdonald, M.A. McCormack‡, J. Dutton, A.D. Ollivierre, J. Arnett, M. Elkins, N.A. Darby, H-M Garcia, S. Skinner, H. Tucker, and V. Reid (2021) Demographic and geographic patterns of cetacean-based food product consumption and potential mercury exposure within a Caribbean whaling community. *Human and Ecological Risk Assessment* 27(6):1671-1695

McCormack, M.A.‡, B.P. Jackson, and J. Dutton (2020) Relationship between mercury and selenium concentrations in tissues from stranded odontocetes in the northern Gulf of Mexico. *Science of the Total Environment* 749:141350

McCormack, M.A.‡, B.P. Jackson, and J. Dutton (2020) Effects of formalin fixation on trace element concentrations in bottlenose dolphin (*Tursiops truncatus*) tissues. *Environmental Toxicology and Chemistry* 39(6):1149-1164

McCormack, M.A.‡, R. Fielding, J.J. Kiszka, V. Paz, B.P. Jackson, D.R. Bergfelt, and J. Dutton (2020) Mercury and selenium concentrations, and selenium:mercury molar ratios in small cetaceans taken off St. Vincent, West Indies. *Environmental Research* 181:108908

McCormack, M.A.‡, F. Battaglia, W.E. McFee, and J. Dutton (2020) Mercury concentrations in blubber and skin from stranded bottlenose dolphins (*Tursiops truncatus*) along the Florida and Louisiana coasts (Gulf of Mexico, USA) in relation to biological variables. *Environmental Research* 180:108886

Dutton, J., and V.M. Venuti§ (2019) Comparison of maternal and embryonic trace element concentrations in common thresher shark (*Alopias vulpinus*) muscle tissue. *Bulletin of Environmental Contamination and Toxicology* 103:380-384

Dutton, J., and K.A. Gioia* (2019) Fecundity and embryonic development of spiny dogfish in the northwest Atlantic Ocean. *Transactions of the American Fisheries Society* 148:48-57

Bakker, A.K.§, J. Dutton, M. Scalfani, and N. Santangelo (2017) Accumulation of nonessential trace elements (Ag, As, Cd, Cr, Hg and Pb) in Atlantic horseshoe crab (*Limulus polyphemus*) early life stages. *Science of the Total Environment* 596-597:69-78

Bakker, A.K.§, J. Dutton, M. Scalfani, and N. Santangelo (2017) Maternal transfer of trace elements in the Atlantic horseshoe crab (*Limulus polyphemus*). *Ecotoxicology* 26:46-57

Bakker, A.K.§, J. Dutton, M. Scalfani, and N. Santangelo (2016) Environmental exposure of Atlantic horseshoe crab (*Limulus polyphemus*) early life stages to essential trace elements. *Science of the Total Environment* 572:804-812

Dutton, J., and N.S. Fisher (2014) Modeling metal bioaccumulation and tissue distribution in killifish (*Fundulus heteroclitus*) in three contaminated estuaries. *Environmental Toxicology and Chemistry* 33(1):89-101

Dutton, J., and N.S. Fisher (2012) Influence of humic acid on the uptake of metals by the killifish *Fundulus heteroclitus*. *Environmental Toxicology and Chemistry* 31(10):2225-2232

Dutton, J., and N.S. Fisher (2012) Bioavailability of sediment-bound and algal metals to killifish *Fundulus heteroclitus*. *Aquatic Biology* 16:85-96

Dutton, J., and N.S. Fisher (2011) Salinity effects on the bioavailability of aqueous metals for the estuarine killifish *Fundulus heteroclitus*. *Environmental Toxicology and Chemistry* 30(9):2107-2114

Dutton, J., and N.S. Fisher (2011) Bioaccumulation of As, Cd, Cr, Hg(II), and MeHg in killifish (*Fundulus heteroclitus*) from amphipod and worm prey. *Science of the Total Environment* 409:3438-3447

Dutton, J., and N.S. Fisher (2010) Intraspecific comparisons of metal bioaccumulation in the juvenile Atlantic silverside (*Menidia menidia*). *Aquatic Biology* 10:211-226

Williams, J.J., J. Dutton, C.Y. Chen, and N.S. Fisher (2010) Metal (As, Cd, Hg, and CH_3Hg) bioaccumulation from water and food by the benthic amphipod *Leptocheirus plumulosus*. *Environmental Toxicology and Chemistry* 29(8):1755-1761

McHugh, C.M.G., L. Seeber, M-H. Cormier, J. Dutton, N. Cagatay, A. Polonia, W.B.F Ryan, and N. Gorur (2006) Submarine earthquake geology along the North Anatolia Fault in the Marmara Sea, Turkey: a model of transform basin sedimentation. *Earth and Planetary Science Letters* 248:661-684

b. Non-refereed Articles

N/A

3. Conference Proceedings

a. Refereed Conference Proceedings

Fisher, N.S., T. Mathews, and J. Dutton (2010) Dietary sources dominate metal uptake in marine fish. *Rapport du Congrès de la Commission Internationale pour I'Exploration Scientifique de la Mer Méditerranée* 39:251

b. Non-refereed

N/A

4. Abstracts

N/A

5. Reports

2022 Request for Supplemental Environmental Impact Statement for the Matagorda Ship Channel improvement project. Report submitted to the U.S. Army Corps of Engineers and U.S. EPA. 16pp.

2021 Opinions related to the Matagorda Ship Channel improvement project, Matagorda Peninsula to Point Comfort (USACE) sampling and analysis plan. Report submitted to the U.S. Army Corps of Engineers and U.S. EPA. 8pp.

6. Book Reviews

N/A

7. Other Works in Print

Documentary

2017-2018 Science consultant on "Sharkwater Extinction". Rob Stewart – producer and director. Sharkwater Productions. Release date: September 7, 2018.

TV

2023 Science consultant on "Monster Mako: Fresh Blood". Discovery Channel (Shark Week). Air date: July 27th.

2014 Scott, R., S.L. Grogg, J. Dutton, R. Weltner, and R. Amper. Exploring Critical Issues. ECI#067: Water: more valuable than oil? Telecare Television Network. Filmed: October 15th. Air date: November 23rd.

Media coverage of research

2024 The future of Lavaca Bay. Crossroads Today. October 30. https://www.crossroadstoday.com/news/local-news/calhoun-county/the-future-of-lavaca-bay/article_280bc290-96ba-11ef-8eff-472a03b1e2a4.html

2024 New research revealing high levels of mercury in Texas bay raises alarms about dredging for oil tankers. Oil and Gas Watch. August 29. https://news.oilandgaswatch.org/post/new-research-revealing-high-levels-of-mercury-in-texas-bay-raises-alarms-about-dredging-for-oil-terminal

2024 Experts warn of mercury levels in Lavaca Bay. The Port Lavaca Wave. August 28. https://www.portlavacawave.com/articles/333/view

2024 What dangers does the mercury in Lavaca Bay pose for the community? The Victoria Advocate. August 23. https://www.victoriaadvocate.com/news/business/what-dangers-does-the-mercury-in-lavaca-bay-pose-for-the-community/article_5e3e6298-6170-11ef-8d80-0f5961e3cebb.html

2024 Mercury found in Lavaca Bay poses serious health risks, warning from experts. Crossroads Today. August 22. https://www.crossroadstoday.com/lifestyle/mercury-found-in-lavaca-bay-poses-serious-health-risks-warning-from-experts/article_53c34740-6105-11ef-8942-0b254a4dc7ea.html

2022 Biologists study mercury levels inside and nearby Superfund site. The Victoria Advocate. October 10. https://www.victoriaadvocate.com/news/biologists-study-mercury-levels-inside-and-nearby-superfund-site/article_5aa6d46a-4680-11ed-9e10-036764ed9a75.html

2022 Researcher studying Texas Gulf coast mercury levels. The Brownsville Herald. September 2. https://myrgv.com/local-news/2022/09/02/researcher-studying-texas-gulf-coast-mercury-levels/

2022 A superthreat to the Gulf Coast's Lavaca Bay. Texas Observer. February 18. https://www.texasobserver.org/a-superthreat-to-the-gulf-coasts-lavaca-bay/

2022 Scientist warns of dredging mercury-tainted Superfund site to build Texas oil export terminal. Environmental Integrity Project. February 16. https://environmentalintegrity.org/news/scientist-warns-of-dredging-mercury-tainted-superfund-site-to-build-texas-oil-export-terminal/

2021 Our bays are polluted: Researchers want to know how bad. The Victoria Advocate. September 25. https://www.victoriaadvocate.com/premium/our-bays-are-polluted-researchers-want-to-know-how-bad/article_82d95d90-f9f1-11eb-b384-4733affc9634.html

2013 After Sandy, scientists hunt for sewage in New York City's harbors. MotherJones.com. February 25. https://www.motherjones.com/politics/2013/02/after-sandy-hunt-tainted-sludge/

Created and edited online course material for publishing companies

2014-2015 Created and edited online instructional and test bank material for Enger, E.D., and B.F. Smith (2015) *Environmental Science: A Study of Interrelationships* (14th edition). New York, NY: McGraw Hill. ISBN: 978-0-07-353255-4

2013-2014 Created and edited online exercises using Google Earth for Cunningham, W.P., and M.A. Cunningham (2014) *Principles of Environmental Science: A Global Concern* (13th Edition). New York, NY: McGraw Hill. ISBN: 978-0-07-353254-7

2012-2013 Created and edited online exercises using Google Earth for Cunningham, W.P., and M.A. Cunningham (2013) *Principles of Environmental Science: Inquiry and*

Applications (7th Edition). New York, NY: McGraw Hill. ISBN: 978-0-07-353251-6

B. Works not in Print

1. Papers Presented at Professional Meetings

(*, §, and ‡ denotes undergraduate student, M.S. student, and doctoral student, respectively)

Kuntz, J.§, K. Armitage§, B. Jackson, K. Banks, G. Stunz, and J. Dutton (2024) Mercury and selenium concentrations in greater amberjack, great barracuda, and cobia in Texas waters: risk assessment and the need for a mercury advisory. Society of Environmental Toxicology and Chemistry North America 45th Annual Meeting. Fort Worth, TX.

Daniels, J.§, L. McInerney§, and J. Dutton (2024) Spatial variability in mercury concentrations in fishes and crabs in the Matagorda Bay system (Texas, USA) with a focus on the Alcoa/Point Comfort Superfund site. Society of Environmental Toxicology and Chemistry North America 45th Annual Meeting. Fort Worth, TX.

Rehkopf, J.§, K. Banks, M. Streich, W. Nowlin, and J. Dutton (2024) Mercury concentrations in biota from the Alcoa/Point Comfort Superfund site (Lavaca Bay, Texas). Society of Environmental Toxicology and Chemistry North America 45th Annual Meeting. Fort Worth, TX.

Rodriguez, J.§, J. Dutton, F. Grubbs, and W. Nowlin (2024) Chasing the contaminant: integrating mercury to examine juvenile shark diets across Texas bays. Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Kerrville, TX.

Wadsworth, W.§, M. Chumchal, T. Steissberg, J. Dutton, and W. Nowlin (2024) Spatial variations and environmental drivers of mercury in caddisflies (Trichoptera) in a complex river basin. Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Kerrville, TX.

Kuntz, J.§, K. Armitage§, B. Jackson, K. Banks, G. Stunz, and J. Dutton (2024) Relationship between mercury and selenium concentrations in billfishes in the northwestern Gulf of Mexico. Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Kerrville, TX.

Rehkopf, J.§, K. Banks, M. Streich, and J. Dutton (2024) Mercury concentrations in biota from the Alcoa Superfund site in Lavaca Bay (Point Comfort, Texas). Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Kerrville, TX.

Daniels, J.§, and J. Dutton (2024) Mercury concentrations in commercially and recreationally important fish and shellfish species in the Alcoa/Point Comfort Superfund site compared to Port Lavaca (Lavaca Bay, Texas). Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Kerrville, TX.

Kuntz, J.M.§, J.T. Daniels§, J. Rehkopf§, C.M. Laughrey§, and J. Dutton (2024) Mercury concentrations in wet cat food sold in the United States. Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Kerrville, TX.

Kuntz, J.M.§, J.T. Daniels§, C.M. Laughrey§, J. Rehkopf§, and J. Dutton (2024) Mercury concentrations in wet cat food sold in the United States. 30th Annual Biology Student Colloquium at Texas State University. San Marcos, TX. *Won best poster – runner up*

Fielding, R., C. Brown, J. Dutton, M. Forde, H. Harewood, L. Hunt, V. Reid, and E. Sunderland (2023) Mercury, fisheries, and health in four Caribbean countries. 76th Annual Conference of the Gulf and Caribbean Fisheries Institute. Nassau, Bahamas.

Rodriguez, J.§, J. Dutton, F. Grubbs, B. Bartram, and W. Nowlin (2023) Trophic ecology and environmental conditions affect mercury concentrations in immature sharks in Texas bays. 38th Annual Meeting of the American Elasmobranch Society/Joint Meeting of Ichthyologists and Herpetologists. Norfolk, VA.

Pitman, N.§, W. Nowlin, F. Grubbs, B. Bartram, B. Jackson, and J. Dutton (2023) Selenium:mercury molar ratios in blacktip sharks (*Carcharhinus limbatus*) and bonnethead sharks (*Sphyrna tiburo*) in the Lower Laguna Madre, Texas. 38th Annual Meeting of the American Elasmobranch Society/Joint Meeting of Ichthyologists and Herpetologists. Norfolk, VA.

Dutton, J., M.A. McCormack‡, R. Fielding (2023) Mercury exposure to humans from the consumption of small cetaceans in St. Vincent & the Grenadines, West Indies. Society of Environmental Toxicology and Chemistry Europe 33rd Annual Meeting. Dublin, Ireland.

Dutton, J., B.M. Deacy, B.P. Jackson (2023) Mercury and selenium concentrations, and selenium:mercury molar ratios in embryos of three placental viviparous shark species (*Carcharhinus leucas*, *Carcharhinus limbatus*, and *Carcharhinus plumbeus*). Society of Environmental Toxicology and Chemistry Europe 33rd Annual Meeting. Dublin, Ireland.

Browne, J.P., J. Dutton, M. Livingston§, C. Freudenberg, and K. Vera (2023) Combining stable isotope and trace element data for tracing the structure of the estuarine food webs within Middle Bay, Hempstead, NY. New England Estuarine Research Society Spring Meeting. Brooklyn, NY.

Freudenberg, C., J.P. Browne, J. Dutton, M. Livingston§, K. Vera (2023) Using stable isotopes to elucidate the structure of the estuarine food web in Middle Bay, Hempstead, NY. Long Island Natural History Conference. Islip, NY.

Fadare, O., N. Lascelles, J. Myers, J. Conkle, J. Dutton, and H. Abdulla (2023) Plastics, polycyclic aromatic hydrocarbons, and mercury interactions within the Matagorda Bay system: does this pose a risk to fish health? 5th Annual Texas Plastic Pollution Symposium. Houston, TX.

Kuntz, J.§, K. Armitage§, B. Jackson, and J. Dutton (2023) Mercury and selenium concentrations, and selenium:mercury molar ratios in red snapper (*Lutjanus campechanus*) in the northwestern Gulf of Mexico. Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Denton, TX.

Daniels, J.§, L. McInerney§, B. Jackson, and J. Dutton (2023) Selenium:mercury molar ratios in commercially and recreationally important fish and shellfish species in southeastern Matagorda Bay, Texas. Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Denton, TX.

Rodriguez, J.§, J. Dutton, F. Grubbs, and W. Nowlin (2023) Spatial variation of mercury in young-of-the-year and juvenile sharks in Texas bays. Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Denton, TX.

Fadare, O., N. Lascelles, J. Myers, J. Conkle, J. Dutton, and H. Abdulla (2023) Plastics, polycyclic aromatic hydrocarbons, and mercury interactions within the Matagorda Bay system: does this pose a risk to fish health? Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Denton, TX.

Myers, J., J. Oster, O. Fadare, S. Lewis, J. Dutton, and J.L. Conkle (2022) Plastic's role in mercury transport throughout the Matagorda Bay system. Society of Environmental Toxicology and Chemistry North America 43rd Annual Meeting. Pittsburgh, PA.

Pitman, N.§, W. Nowlin, F. Grubbs, B. Jackson, and J. Dutton (2022) Selenium:mercury molar ratios in tissues from young-of-the-year and juvenile sharks in Texas bays. Society of Environmental Toxicology and Chemistry North America 43rd Annual Meeting. Pittsburgh, PA.

Rodriguez, J.§, J. Dutton, F. Grubbs, and W. Nowlin (2022) Mercury bioaccumulation in young-of-the-year and juvenile sharks in Texas bays. Society of Environmental Toxicology and Chemistry North America 43rd Annual Meeting. Pittsburgh, PA. *JR received $400 travel award and free registration.*

Wulf, D.J.§, W.H. Nowlin, F. Grubbs, and J. Dutton (2022) Presence of plastics in the gastrointestinal tract of young-of-the-year and juvenile sharks in Texas bays. Gulf Estuarine Research Society 2022 Annual Meeting. Ocean Springs, MS. *DJW received $300 travel award.*

Pitman, N.R.§, W.H. Nowlin., F. Grubbs, and J. Dutton (2022) Mercury concentrations in young-of-the-year and juvenile sharks in Aransas Bay and Corpus Christi Bay, Texas. Gulf Estuarine Research Society 2022 Annual Meeting. Ocean Springs, MS. *NRP received $300 travel award.*

Rodriguez, J.I.§, W. Nowlin, F. Grubbs, and J. Dutton (2022) Mercury concentrations in sharks and their representative prey items along the Texas coast. Gulf Estuarine Research Society 2022 Annual Meeting. Ocean Springs, MS.

McCormack, M.A.‡, B.P. Jackson, and J. Dutton (2022) Relationship between mercury and selenium concentrations and selenium:mercury molar ratios in tissues from stranded bottlenose dolphins (*Tursiops truncatus*) in the northern Gulf of Mexico. 24th Biennial Conference on the Biology of Marine Mammals. Palm Beach, FL.

Myers, J., J. Oster, S. Lewis, J. Dutton, and J. Conkle (2022) Total mercury (THg) concentrations within southern flounder (*Paralichthys lethostigma*) tissues and consumed plastics in Matagorda Bay, Texas. Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Corpus Christi, TX.

Myers, J., J. Oster, K. Bahr, B. Walther, J. Dutton, and J. Conkle (2022) Total mercury (THg) concentrations within southern flounder (*Paralichthys lethostigma*) tissues and consumed plastics in Matagorda Bay, Texas. 4th Annual Texas Plastic Pollution Symposium. Port Aransas, TX.

Conkle, J.L., and J. Dutton (2021) Mercury and plastic in commercial and recreational fisheries in Lavaca, Matagorda, and San Antonio Bays: risk assessment and interaction between the two contaminants. 3rd Annual Texas Plastic Pollution Symposium. South Padre Island, TX.

Baptista, M., C. Figueiredo, C. Lopes, P. Reis Costa, J. Dutton, D.H. Adams, R. Rosa, and J. Raimundo (2021) Biotoxins, trace elements, and microplastics in the ocean sunfishes (Molidae). The Ocean Sunfish Symposium. Virtual.

Ketchum, J.R.§, B.M. Deacy, K.J. Gibson, G.W. Stunz, and J. Dutton (2020) Mercury concentrations in sharks from the northern Gulf of Mexico. Gulf Estuarine Research Society 2020 Annual Meeting. Virtual.

Livingston, M.L.§, J. Davis, and J. Dutton (2020) Tissue-specific mercury concentrations in immature bull sharks (*Carcharhinus leucas*) from Sabine Lake. Gulf Estuarine Research

Society 2020 Annual Meeting. Virtual. *MLL was a top 5 graduate student presentation award winner*

McCormack, M.A.‡, B.P. Jackson, and J. Dutton (2020) Mercury and selenium concentrations in northern Gulf of Mexico bottlenose dolphins. Gulf Estuarine Research Society 2020 Annual Meeting. Virtual. *MAM was a top 5 graduate student presentation award winner*

McCormack, M.A.‡, W.H. Nowlin, and J. Dutton (2020) Effect of trophic position on mercury concentrations in northern Gulf of Mexico bottlenose dolphins. Society of Environmental Toxicology and Chemistry North America 41st Annual Meeting. Virtual.

Ketchum, J.R.§, B.M. Deacy, and J. Dutton (2020) Maternal transfer of mercury in three placental viviparous shark species (*Carcharhinus leucas*, *Carcharhinus limbatus*, and *Carcharhinus plumbeus*). Society of Environmental Toxicology and Chemistry North America 41st Annual Meeting. Virtual.

Bakker, J.A.§, A.N. Schwalb, C. Robertson, B.P. Jackson, and J. Dutton (2020) Monitoring changes in trace element concentrations in *Amblema plicata* in the Guadalupe River basin (Texas, USA) using a cage transplant study. Society of Environmental Toxicology and Chemistry North America 41st Annual Meeting. Virtual.

Parker, M.C.§, S.R. Fritts, S. Weaver, M.B. Meierhofer, and J. Dutton (2020) Mercury concentrations in Texas bats. 27th Annual Biology Student Colloquium at Texas State University. San Marcos, TX. *MCP was a best poster award winner*

Parker, M.C.§, S.R. Fritts, S. Weaver, M.B. Meierhofer, and J. Dutton (2020) Intra- and interspecific variability in mercury concentrations in Texas bats. Texas Chapter of the Wildlife Society. Corpus Christi, TX. *MCP won the best graduate student poster award – 2nd place winner*

Hobbs, J.C.*, J.V. Schmidt, J.A. McKinney, E.R. Hoffmayer, D. Ramírez-Macías, and J. Dutton (2019) Mercury concentrations in whale sharks (*Rhincodon typus*) from the Gulf of Mexico and Gulf of California. 35th Annual Meeting of the American Elasmobranch Society/Joint Meeting of Ichthyologists and Herpetologists. Snowbird, UT.

Livingston, M.*, J. Davis, and J. Dutton (2019) Mercury accumulation in young-of-the-year and juvenile bull sharks (*Carcharinus leucas*). 35th Annual Meeting of the American Elasmobranch Society/Joint Meeting of Ichthyologists and Herpetologists. Snowbird, UT.

McCormack, M.A.‡, and J. Dutton (2019) Mercury accumulation in bottlenose dolphins (*Tursiops truncatus*) stranded along the Florida and Louisiana coast in relation to stable isotope ratios. 26th Annual Biology Student Colloquium at Texas State University. San Marcos, TX. *MAM was the best Ph.D. student poster award winner*

McCormack, M.A.‡, S.F. Harding‡, T.R. Gold Quiros§, S.L. Britton§, K.D. Cunningham§, D. Rodriguez, and J. Dutton (2018) Mercury levels in sashimi purchased in Central Texas: Impact of seafood mislabeling. Society of Environmental Toxicology and Chemistry North America 39th Annual Meeting. Sacramento, CA.

McCormack, M.A.‡, R. Fielding, B.P. Jackson, D.R. Bergfelt, and J Dutton (2018) Trace element concentrations in cetaceans taken for human consumption off St. Vincent, West Indies. Society of Environmental Toxicology and Chemistry North America 39th Annual Meeting. Sacramento, CA.

Britton, S.§, A. Schwalb, B. Jackson, S. Wiseman, C. Robertson, and J. Dutton (2018) Physiological response of *Amblema plicata* to contaminants in the Guadalupe River, Texas. Society of Environmental Toxicology and Chemistry North America 39th Annual Meeting. Sacramento, CA.

McCormack, M.A.‡, and J. Dutton (2018) Mercury accumulation in the skin and blubber of bottlenose dolphins (*Tursiops truncatus*) from the Gulf of Mexico. American Cetacean Society 16th International Conference. Newport Beach, CA.

Quiros, T.§, C. Robertson, and J. Dutton (2018) Mercury levels in 21 species of fish from Canyon Lake, Texas. Texas State University 10th Annual International Research Conference for Graduate Students. San Marcos, TX.

Livingston, M.*, J. Davis, and J. Dutton (2018) Mercury accumulation in young-of-the-year and juvenile bull sharks (*Carcharinus leucas*) from Sabine Lake, Texas. Texas State University SURE Undergraduate Research Symposium. San Marcos, TX.

Britton, S.§, B. Jackson, S. Wiseman, C. Robertson, A. Schwalb, and J. Dutton (2018) Physiological response of *Amblema plicata* to contaminants in the Guadalupe River basin. Southwestern Association of Naturalists 65th Annual Meeting. San Marcos, TX.

Quiros, T.§, C. Robertson, and J. Dutton (2018) Mercury levels in trophically diverse fish from Canyon Lake, Texas. Southwestern Association of Naturalists 65th Annual Meeting. San Marcos, TX. *TQ was the Clark Hubbs student poster award winner*

Cunningham, K.D.§, and J. Dutton (2018) Mercury concentrations in Texas marine predatory fish. Southwestern Association of Naturalists 65th Annual Meeting. San Marcos, TX

McCormack, M.A.‡, S.F. Harding‡, T.R. Quiros§, S.L. Britton§, K.D. Cunningham§, D. Rodriguez, and J. Dutton (2018) Mercury levels in sashimi purchased in Central Texas: impact of seafood mislabeling. Texas State University Women in Science and Engineering Conference. San Marcos, TX.

Quiros, T.R.§, C. Robertson, and J. Dutton (2018) Mercury levels in game fish from the Guadalupe River, Texas. Texas State University Women in Science and Engineering Conference. San Marcos, TX.

Cunningham, K.D.§, and J. Dutton (2018) Mercury accumulation in Texas marine fish and invertebrates. Texas State University Women in Science and Engineering Conference. San Marcos, TX.

Britton, S.L.§, C. Robertson, A.N. Schwalb, and J. Dutton (2018) Trace element concentrations in the freshwater mussel *Amblema plicata* from the Guadalupe River. Texas State University Women in Science and Engineering Conference. San Marcos, TX.

McCormack, M.A.‡, S.F. Harding‡, T.R. Quiros§, S.L. Britton§, K.D. Cunningham§, D. Rodriguez, and J. Dutton (2018) Mercury levels and seafood mislabeling in sashimi purchased in Central Texas. 25th Annual Biology Student Colloquium at Texas State University. San Marcos, TX.

Dutton, J., K.A. Gioia*, N.S. Fisher, and D.J. Madigan (2017) Mercury bioaccumulation and maternal transfer in spiny dogfish (*Squalus acanthias*). 33rd Annual Meeting of the American Elasmobranch Society/Joint Meeting of Ichthyologists and Herpetologists. Austin, TX.

Dutton, J., B.P. Jackson, D. Cardeñosa, A. Fields, and D. Chapman (2017) Trace element concentrations in shark fin soup and dried shark fins. 33rd Annual Meeting of the American Elasmobranch Society/Joint Meeting of Ichthyologists and Herpetologists. Austin, TX.

Dutton, J., B.P. Jackson, and D.H. Adams (2016) Tissue distribution of essential and nonessential trace elements in ocean sunfish (*Mola mola*) and sharptail mola (*M. lanceolata*). Society of Environmental Toxicology and Chemistry 7th World Congress/North America 37th Annual Meeting. Orlando, FL.

Adams, D.H., B.P. Jackson, and J. Dutton (2016) Trace elements in multiple snapper species from the West Florida Shelf. Society of Environmental Toxicology and Chemistry 7th World Congress/North America 37th Annual Meeting. Orlando, FL.

Bakker, A.K.§, J. Dutton, and N. Santangelo (2016) Metal accumulation in horseshoe crab (*Limulus polyphemus*) eggs, embryos, and larvae from potentially contaminated public beaches. 7th World Congress of Mountain and Wilderness Medicine. Telluride, CO.

Dutton, J., K.A. Gioia*, N.S. Fisher, and D.J. Madigan (2016) Maternal transfer of mercury in spiny dogfish (*Squalus acanthias*). 12th International Congress on the Biology of Fish. San Marcos, TX.

Dutton, J., K.A. Gioia*, N.S. Fisher, and D.J. Madigan (2016) Tissue distribution of mercury in female spiny dogfish (*Squalus acanthias*). Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Fort Worth, TX

Dutton, J., and V. Venuti§ (2015) Effect of body length on metal concentrations in mako and thresher sharks. Society of Environmental Toxicology and Chemistry North America 36th Annual Meeting. Salt Lake City, UT.

Dutton, J., and V. Venuti§ (2015) Maternal transfer of essential and nonessential metals in a thresher shark. Society of Environmental Toxicology and Chemistry North America 36th Annual Meeting. Salt Lake City, UT.

Dutton, J., and V. Venuti* (2014) Effect of body length on metal concentrations in tuna and mahi-mahi. Society of Environmental Toxicology and Chemistry North America 35th Annual Meeting. Vancouver, Canada.

Dutton, J., and S. Cinquemani* (2014) Use of the eastern mud snail (*Ilyanassa obsoleta*) as a bioindicator of localized metal contamination. Society of Environmental Toxicology and Chemistry North America 35th Annual Meeting. Vancouver, Canada.

Hosseini, P., C.M. McHugh, B.A. Christensen, J. Dutton, B. Brownawell, and D. Gurung (2013) Effects of Superstorm Sandy on depositional environments offshore Long Island, New York. American Geophysical Union Fall Meeting. San Francisco, CA.

Christensen, B.A., J.A. Goff, J.A. Austin, C.M. Browne, N.S. Duzgoren-Aydin, R.D. Flood, C.M. McHugh, J. Dutton, P. Hosseini, and B. Brownawell (2013) Soupy surface muds: a probable Sandy storm horizon with a potential source fingerprint. American Geophysical Union Fall Meeting. San Francisco, CA.

Dutton, J., and M.J. Record* (2013) Bioaccumulation and trophic transfer of As, Cd, Cu, Hg, Pb, and Zn in two contaminated salt marshes on the south shore of Long Island, New York. Society of Environmental Toxicology and Chemistry North America 34th Annual Meeting. Nashville, TN.

Dutton, J., and N.S. Fisher (2013) Modeling metal bioaccumulation in killifish (*Fundulus heteroclitus*) in three contaminated estuaries. Society of Environmental Toxicology and Chemistry North America 34th Annual Meeting. Nashville, TN

Christensen, B.A., J. Dutton, and D. Brown (2010) Mio-Pliocene benthic foraminiferal biofacies changes in the Canterbury Basin. American Geophysical Union Fall Meeting. San Francisco, CA.

Williams, J.J., J. Dutton, C.Y. Chen, and N.S. Fisher (2010) Metal (As, Cd, Hg, CH_3Hg) bioaccumulation from water and food by the benthic amphipod *Leptocheirus plumulosus*. Pacific Northwest Chapter of the Society of Environmental Toxicology and Chemistry 19th Annual Meeting. Townsend, WA.

Dutton, J., and N.S. Fisher (2009) The influence of salinity on the uptake of As, Cd, Cr, Hg, and MeHg into an estuarine fish from the dissolved phase. Society of Environmental Toxicology and Chemistry North America 30th Annual Meeting. New Orleans, LA.

Dutton, J., and N.S. Fisher (2009) The role of dissolved organic matter in the uptake of As, Cd, Cr, Hg, and MeHg into killifish (*Fundulus heteroclitus*) from the dissolved phase. Society of Environmental Toxicology and Chemistry North America 30th Annual Meeting. New Orleans, LA.

Chen, C., J. Dutton, N. Fisher, and J. Williams (2009) The role of organic carbon in controlling metal bioavailability and trophic transfer in intertidal food webs. SERDP (Strategic Environmental Research and Development Program) and ESTCP's (Environmental Security Technology Certification Program) Partners in Environmental Technology Technical Symposium and Workshop. Washington, D.C.

Dutton, J., and N.S. Fisher (2008) Assessing the bioaccumulation of metals in killifish (*Fundulus heteroclitus*), a bioindicator organism. Society of Environmental Toxicology and Chemistry North America 29th Annual Meeting. Tampa, FL.

Dutton, J., and N.S. Fisher (2007) Intraspecific differences in metal bioaccumulation in the Atlantic silverside (*Menidia menidia*): inferences regarding the effects of key biological processes. Society of Environmental Toxicology and Chemistry North America 28th Annual Meeting. Milwaukee, WI.

Chen, C., J. Shaw, N.S. Fisher, and J. Dutton (2007) *Fundulus heteroclitus*: A model organism for metal exposure and biotransfer from sediments in intertidal habitats. Estuarine Research Federation Conference. Providence, RI.

Chen, C., J. Shaw, J. Dutton, and N.S. Fisher (2007) *Fundulus heteroclitus*: A model organism for metal exposure and biotransfer from sediments in intertidal habitats. SERDP (Strategic Environmental Research and Development Program) and ESTCP's (Environmental Security Technology Certification Program) Partners in Environmental Technology Technical Symposium and Workshop. Washington, D.C.

McHugh, C.M.G., L. Seeber, M-H. Cormier, J. Dutton, N. Cagatay, and A. Polonia (2006) Submarine earthquake geology along the North Anatolia Fault in the Marmara Sea, Turkey: what we learnt about transform basins, earthquakes and sedimentation. International Workshop in Comparative Studies of the North Anatolian Fault and San Andreas Fault. Istanbul, Turkey.

Dutton, J., C. McHugh, M-H. Cormier, L. Seeber, N. Cagatay, N. Okay, and K. Ziangos (2004) Developing tools for paleoseismology in the submarine environment, case studies: North Anatolian Fault Zone, Marmara Sea, Turkey and El Pilar Fault, Cariaco Basin, Venezuela. Northeastern Section and Southeastern Section of the Geological Society of America Meeting. Washington, D.C.

Dutton, J., C. McHugh, M-H. Cormier, L. Seeber, and R/V Urania Marmara 2001 Scientific Team (2004) Submarine earthquake geology along the Ganos segment of the North Anatolia Fault in the Marmara Sea. 32nd International Geological Congress. Florence, Italy.

McHugh, C.M., M. Cormier, L. Seeber, N. Cagatay, J. Dutton, and D. Gurung (2004) Developing tools for submarine earthquake geology along the North Anatolia Fault Zone in the Marmara Sea, Turkey. American Geophysical Union Fall Meeting. San Francisco, CA.

2. Invited Talks, Lectures, and Presentations

November 2024	Spatial variability in mercury concentrations in fishes and shellfishes in the Matagorda Bay system, Texas, with a focus on the Alcoa Superfund site. Daulphin Island Sea Lab (University Programs Fall Seminar Series), Daulphin Island, AL.
October 2023	Women in STEM guest speaker. W.B. Ray High School, Corpus Christi, TX
October 2020	Relationship between mercury and selenium concentrations in marine fishes and odontocetes. Biology Department Seminar, Texas State University, San Marcos, TX
February 2020	Mercury accumulation in fish and shellfish from the northern Gulf of Mexico. Harte Research Institute Seminar Series, Texas A&M University – Corpus Christi, Corpus Christi, TX
October 2019	How much mercury is in my fish? A 2019 update. Seafood Wars - Texas State Aquarium, Corpus Christi, TX
July 2019	Shark dissection at the Texas State Aquarium SeaCamp. Texas State Aquarium, Corpus Christi, TX
May 2019	Career day. Tobias Elementary School, Kyle, TX
November 2018	Mercury in sharks (included a shark dissection). Teen STEM Café – Texas State Aquarium, Corpus Christi, TX
July 2018	Sharks versus humans: Who has the bigger bite? Science Mill, Johnson City, TX
July 2018	Mercury concentrations in Texas marine fish. Seafood Wars - Texas State Aquarium, Corpus Christi, TX
February 2018	Mercury accumulation in marine life from the Gulf of Mexico. Biology Department Seminar, Texas State University, San Marcos, TX
March 2016	Mercury bioaccumulation and maternal transfer in spiny dogfish (*Squalus acanthias*). Biology Department Seminar, Trinity University, San Antonio, TX
October 2015	Factors influencing metal accumulation in estuarine and marine fish. Roberts lab seminar, Department of Biological Sciences, University of North Texas, Denton, TX
April 2015	Metal accumulation in estuarine and marine fish. Honors Colloquium, Biology Department, Adelphi University, Garden City, NY
April 2015	Mercury accumulation in marine fish. Operation SPLASH monthly meeting, Freeport, NY
January 2014	Metal levels in shark fin soup and the risk to human health. Honors Colloquium, Biology Department, Adelphi University, Garden City, NY
November 2013	Metal levels in shark fin soup and the risk to human health. Fall 2013 Colloquium, School of Earth and Environmental Sciences, Queens College, Flushing, NY
April 2013	Understanding metal accumulation and trophic transfer in estuarine organisms: laboratory and field data. Honors Colloquium, Biology Department, Adelphi University, Garden City, NY
January 2013	Bioaccumulation of mercury in marine organisms. Comsewogue High School, Port Jefferson Station, NY

3. Consultancies

2021-2022 Consultant for Earthjustice. Provided an expert opinion on the risk of mercury that is buried in sediment being resuspended into the Alcoa Superfund Closed Area of Lavaca Bay due to the widening of the Matagorda Bay ship channel and creation of a new turning basin.

4. Workshops

Fisher, N.S., W.F. Fitzgerald, J.W. Hamilton, J.M. Hightower, K. Kamiya, K.R. Mahaffey, J.R. Meliker, E. Oken, T.M. Sulliven, L. Transande, J. Dutton, and Z. Turek (2009) Workshop on mercury exposure and public health. New York City, NY

5. Other Works not in Print

a. Works "submitted" or "under review"

N/A

b. Works " in progress"

N/A

c. Other works not in print

N/A

C. Grants and Contracts

1. Funded External Grants and Contracts

2024-2027 Dutton, J. (PI), D. Blasingame (Co-PI), and S. Shields (Co-PI). Mercury exposure through seafood consumption in the Matagorda Bay system: human health study and public education. Matagorda Bay Mitigation Trust ($474,900).

2024-2027 Liu, Z. (PI), K. Lu (Co-PI), and J. Dutton (Co-PI). Resuspension of contaminants in Matagorda Bay due to storms, ship traffic, and dredging activities. Matagorda Bay Mitigation Trust ($433,113; $95,267 to TX State).

2023-2026 Dutton, J. (PI), and L. Prothro (CoPI). Sediment mercury concentrations in the Closed Area of Lavaca Bay and the risk to wildlife from mercury remobilization during dredging. Matagorda Bay Mitigation Trust ($497,818).

2022-2026 Dutton, J. (PI), D.C. Blasingame (Co-PI), and S.M. Shields (Co-PI). Relationship between mercury and selenium concentrations in Texas offshore and bay fishes: risk assessment and health education. Texas Sea Grant ($190,902).

2022-2025 Banks, K. (PI), M. Streich (Co-PI), and J. Dutton (Co-PI). Trophic linkages and habitat connectivity of popular sportfish in the Matagorda Bay system. Matagorda Bay Mitigation Trust ($399,932; $92,031 to TX State).

2021-2025 Conkle, J.L. (PI), and J. Dutton (Co-PI). Mercury and plastic in commercial and recreational fisheries in Lavaca, Matagorda, and San Antonio Bays: risk

assessment and interaction between the two contaminants. Matagorda Bay Mitigation Trust ($499,917; $247,528 to TX State).

2022-2024 McFee, W (PI), S. Morton (Co-PI), J. Dutton (Co-PI), S. Piwetz (Co-PI), G. Vazquez (Co-PI), and G. Lovewell (Co-PI). Innovative use of scanning electron microscopy (SEM) and energy dispersive x-ray spectroscopy (EDS) to detect oil signatures in teeth of bottlenose dolphins (*Tursiops truncatus*). NOAA NCCOS ($85,490; $0 to TX State).

2020-2023 Dutton, J. (PI), and W.H. Nowlin (Co-PI). Intra- and interspecies variability in mercury accumulation in young-of-the-year and juvenile sharks. Texas Parks and Wildlife Department State Wildlife Grant – Coastal Fisheries ($99,964).

2018-2022 Browne, J.P. (PI), and J. Dutton (Co-PI). The transfer of Hg, Pb, and other trace elements through the estuarine food web in the SSER. Long Island South Shore Estuary Reserve Local Assistance Grant; NY Department of State, Office of Planning and Development ($48,598 total; $42,048 to TX State).

2020-2021 Dutton, J (PI). Selenium:mercury molar ratios in Texas offshore fishes. Texas Sea Grant ($9,755).

2016-2021 Dutton, J. (PI), and A.N. Schwalb (Co-PI). The impact of environmental contaminants on Texas unionid mussels in the Guadalupe basin. Texas Parks and Wildlife Department Section 6 Traditional Grant ($81,915).

2015-2016 Santangelo, N. (PI), J. Dutton (Co-PI), and A. Bakker (Co-PI). Monitoring metal contamination in a pharmaceutically valuable species and its use as a bioindicator for human recreational environments. Wilderness Medical Society Herbert N. Hultgren Grant ($10,000).

2013-2014 Christensen, B.A. (PI), C.M. McHugh (Co-PI), R.D. Flood (Co-PI), B. Brownawell (Co-PI), J. Dutton (Co-PI), and C. O'Connell (Co-PI). Rapid Grant: Collaborative investigations of the impact of Superstorm Sandy on the south shore of Long Island. National Science Foundation ($70,975).

2. Submitted, but not Funded, External Grants and Contracts

N/A

3. Funded Internal Grants and Contracts

2022-2023 Rhodes, C (PI), B. Martin (Co-PI), D. Schilter (Co-PI), S. Kerwin (Co-PI), A. Kornienko (Co-PI), R. Peterson (Co-PI), B. Schwartz (Co-PI), J. Dutton (Co-PI), K. Ikehata (Co-PI), S. Hwang (Co-PI), and T. Ozbakkaloglu (Co-PI). Inductively Coupled Plasma-Mass Spectrometry Shared Research and Education Instrument. Texas State University Materials Application Research Center (MARC) Instrumentation Grant ($259,195)

2021-2022 Dutton, J (PI). Does selenium protect shark embryos against mercury toxicity? Texas State University Research Enhancement Program ($8,000).

2016-2017 Dutton, J. (PI), and T.H. Bonner (Co-PI). Mercury levels in fish caught in the Gulf of Mexico and the risk to human health. Texas State University Research Enhancement Program ($16,000)

2015-2016 Dutton, J. (PI). Metal accumulation in horseshoe crabs (*Limulus polyphemus*) on Long Island due to maternal transfer and exposure to contaminated sediment. Adelphi University Faculty Development Grant ($4,500)

2013-2014 Dutton, J (PI). Metal levels in shark fin soup and the risk to human health. Adelphi University Faculty Development Grant ($4,270)
2012-2013 Dutton, J (PI). Investigating metal concentrations through a four-step aquatic food chain on Long Island's South Shore. Adelphi University Faculty Development Grant ($2,500)

4. Submitted, but not Funded, Internal Grants and Contracts
N/A

D. Fellowships, Awards, Honors
2024 College of Science and Engineering (CoSE) Research Millionaire. Awarded for obtaining more than $1 million in external funding over the past three fiscal years (FY22 to FY24).
2022 Presidential Research Award (Spring 2023; allows faculty developmental leave for the entire 2022-2023 academic year)
2022 Faculty Developmental Leave (Fall 2022)
2014 Frederick Bettelheim Research Award, Adelphi University ($1,200)
2008-2010 National Science Foundation Integrative Graduate Education and Research Traineeship (NSF IGERT)
2004-2010 Full tuition scholarship, Stony Brook University
2008 Sigma Xi Excellence in Research Award
2007 Society of Environmental Toxicology and Chemistry Travel Award ($400) to attend the 28th North America annual meeting

IV. SERVICE

A. Institutional

1. University
Texas State University
2017-present Suspension Appeals Committee
2021 University Research Enhancement Committee
2019-2022 Laboratory Safety Committee

Adelphi University
2014-2015 Faculty Senate representative for the Environmental Studies Program
2013-2014 Middle States Periodic Review Report Committee
2012-2015 Senate Committee on Academic Information Technology
2012-2015 Campus Sustainability Committee

2. College
Texas State University
2023-2024 College of Fine Arts and Communication tenure and promotion review committee

2017-2018 College of Science and Engineering Laboratory Safety Committee

3. Department/School

Texas State University

2024 Committee member, A.B. and Irene Rogers Aquatic Biology Scholarship Committee
2021-2022 Strategic action plan working group
2018-2022 Committee member, Eben-Elledge Endowed Scholarship Committee
2017-2022 Chair, A.B. and Irene Rogers Aquatic Biology Scholarship Committee
2017-2022 Committee member, Fred and Yetta Richan Aquatic Biology Scholarship Committee
2016 Strategic action plan: increasing salaries of instructional assistants working group
2016 Student presentation reviewer at the 21st Annual Biology Student Colloquium

Adelphi University

2015 Advisor, *Pi Epsilon*, the National Environmental Sciences Honor Society
2012-2015 Academic advisor for 50+ undergraduate students
2011-2015 Advisor, Environmental Action Coalition, Environmental Studies Program

B. Professional

2024-present Board Member, South-Central Regional Chapter of the Society of Environmental Toxicology and Chemistry
2024-present Editorial Board, Bulletin of Environmental Contamination and Toxicology
2024 NOAA Knauss Fellowship Program reviewer for Texas Sea Grant
2023-present Associate Editor, Frontiers in Marine Science (Section "Marine Pollution")
2023-present Student presentation reviewer at the Society of Environmental Toxicology and Chemistry South-Central Regional Meeting
2023 Shark dissections. Aquatic Science Adventure Camp, Texas State University.
2023 Conference session co-chair "One health: Ecotoxicology at the human-animal-ecosystem interface". Society of Environmental Toxicology and Chemistry Europe 33rd Annual Meeting. Dublin, Ireland.
2022 Student presentation reviewer at the Gulf Estuarine Research Society Annual Meeting
2022 External reviewer for tenure and promotion to Associate Professor application at University of North Texas
2022 Book proposal reviewer for *Biology, Ecology, Utilization, and Conservation of Asian Horseshoe Crabs* (editors: Hu, M., and K.Y. Kwan). Elsevier.
2021-2022 Proposal reviewer for Texas Sea Grant Grants-In-Aid of Graduate Research Program
2020-2023 TPWD (Texas Parks and Wildlife Department) northern Gulf of Mexico invasive species forecasting working group member (elasmobranch specialist)
2020 Student presentation reviewer at the Gulf Estuarine Research Society Annual Meeting
2020 Graduate Women in Science (GWIS) National Fellowship reviewer

2019	Textbook reviewer for a proposed new edition: Timbrell, J. (2009) *Introduction to Toxicology* (3rd Edition), CRC Press, ISBN: 978-0-4152-4763-4
2019	Grant proposal reviewer for New York Sea Grant
2019	TPWD coastal shark species working group member. Ranked 13 species for SGCN (Species of Greatest Conservation Need) listing.
2016	Student presentation reviewer at the Society of Environmental Toxicology and Chemistry South-Central Regional Meeting
2016	Panelist at the Society of Environmental Toxicology and Chemistry South-Central regional meeting student workshop "Academia, industry or government? Weighing your options, finding your fit and becoming employed"
2014-2016	Student presentation reviewer at the Society of Environmental Toxicology and Chemistry North America Annual Meetings
2013	Textbook reviewer: Chiras, D.D. (2013) *Environmental Science* (9th Edition), Jones and Bartlett Learning, ISBN: 978-1-44-964531-1
2013	Textbook reviewer: *Learn Environmental Science* (proposed new textbook), Jones and Bartlett Learning
2012	Textbook accuracy reviewer: Trujillo, A.P., and H.V. Thurman (2013) *Essentials of Oceanography* (11th Edition), Prentice Hall. ISBN: 978-0-32-181405-0

2012-present Peer-reviewer for:

Aquatic Biology (2012)
Archives of Environmental Contamination and Toxicology (2020)
Bulletin of Environmental Contamination and Toxicology (2024, 2022, 2019)
Chemosphere (2020, 2018)
Current Analytical Chemistry (2016)
Ecological Indicators (2023)
Ecotoxicology and Environmental Safety (2021, 2018, 2017, 2015)
Ecotoxicology (2021, 2014)
Environmental Health Insights (2020)
Environment International (2024)
Environmental Monitoring and Assessment (2022)
Environmental Pollution (2024, 2018, 2017)
Environmental Research (2024, 2020, 2019)
Environmental Science and Pollution Research (2022, 2021, 2020, 2019)
Environmental Science and Technology Letters (2022)
Environmental Toxicology and Chemistry (2019, 2018)
Environmental Toxicology and Pharmacology (2019)
Estuaries and Coasts (2022)
Journal of Fish Biology (2020)
Journal of Geochemical Exploration (2014)
Journal of Geophysical Research – Oceans (2021)
Marine Pollution Bulletin (2023, 2022)
Science of the Total Environment (2024, 2023, 2021, 2018, 2017, 2014)
Scientific Reports (2024)
Turkish Journal of Fisheries and Aquatic Sciences (2013)

Professional affiliations

2020-present	Gulf Estuarine Research Society
2015-present	American Elasmobranch Society
2013-present	American Fisheries Society
2013-present	Coastal and Estuarine Research Federation
2008-present	Association for the Sciences of Limnology and Oceanography
2007-present	Society of Environmental Toxicology and Chemistry

C. Community

2024	Panelist at a community meeting in Port Lavaca, TX to discuss whether plans to deepen and widen the Matagorda Bay ship channel could stir up mercury in the Alcoa Superfund site. Hosted by the San Antonio Bay Estuarine Waterkeeper. August 22.
2024	Public presentation "Mercury concentrations in sediment and biota in the Alcoa (Point Comfort) Superfund site". Hosted by the San Antonio Bay Estuarine Waterkeeper. August 22, Port Lavaca, TX. Attended by ~200 people (federal and state agencies, city council, industry, environmental groups, community members). Livestreamed (~1000 views to date). Translated into Spanish and Vietnamese.

D. Service Honors and Awards

N/A

E. Service Grants and Contracts

1. Funded External Service Grants and Contracts

N/A

2. Submitted, but not Funded, External Service Grants and Contracts

N/A

3. Funded Internal Service Grants and Contracts

N/A

4. Submitted, but not Funded, Internal Service Grants and Contracts

N/A