

TEXAS STATE VITA

I. Academic/Professional Background

A. Name: JESSICA DUTTON

Title: ASSISTANT PROFESSOR

B. Educational Background

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>	<i>Thesis/Dissertation</i>
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.	2000	Swansea University, UK	Marine Biology	

C. University Experience

<i>Position</i>	<i>University</i>	<i>Dates</i>
Assistant Professor	Texas State University, TX	2015-present
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 Professor	Stony Brook University, NY	2005-2006
Lab Instructor	Queens College, NY	2003-2004

D. Relevant Professional Experience

<i>Position</i>	<i>Entity</i>	<i>Dates</i>
Researcher for the Ocean Friendly Seafood Guide	Blue Ocean Institute, NY	2007-2009

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

2015-present	CITI Program – working with the IACUC (expires 12/14/2018)
2015-present	CITI Program – working with fish in research settings (expires 12/14/2018)

II. TEACHING

A. Teaching Honors and Awards:

2014 Nominated for the Adelphi University 2014 Excellence in Teaching Award

B. Courses Taught:

Texas State University:

N/A

Adelphi University:

Social Science and Environmental Problems (ENV 101)

Natural Science and Environmental Problems (ENV 102/EAS 110; classroom and online)

Environmental Geology (ENV/EAS 104)

Physical Geology (lecture and lab) (ENV 109/EAS 102)

Introduction to the Oceans (ENV/EAS 205)

Environmental Science (lecture and lab) (ENV/EAS 301)

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)

Suffolk County Community College

Introduction to Oceanography (MAR 105)

Principles of World Climate (MET 102)

Modern Biology I (lecture) (BIO 150)

Zoology (lab) (BIO 141)

C. Graduate Theses/Dissertations, Honors Theses, or Exit Committees (if supervisor, please indicate):

Graduate Thesis Committee Member, In-Progress:

Aaron Bakker (M.S.; expected May 2016; Hofstra University)

Graduate Thesis Committee Member, Completed:

Gina Amitrano (M.S.; 2014; Adelphi University)

Honors Thesis Supervisor, Completed:

Maria Vessia (2014; Adelphi University)

Shivali Malkani (2014; Adelphi University)

Zoë Gold (2013; Adelphi University)

Honors Thesis Committee Member, Completed:

Ashley Corbeil (2015; Adelphi University)

Meaghan McCormack (2013; Adelphi University)

Undergraduate Biology Capstone Thesis Committee Member, Completed:
Gabrielle Bruno (2014; Adelphi University)

D. Courses Prepared and Curriculum Development:

Texas State University:

Biological Oceanography (BIO 4350Q/5350Q; currently developing this course for Spring 2016)
Aquatic Toxicology (lecture and lab; currently developing this course for Fall 2016)

Adelphi University:

Social Science and Environmental Problems (ENV 101)
Natural Science and Environmental Problems (ENV 102/EAS 110; classroom and online)
Environmental Geology (ENV/EAS 104)
Physical Geology (lecture and lab) (ENV 109/EAS 102)
Introduction to the Oceans (ENV/EAS 205)
Environmental Science (lecture and lab) (ENV/EAS 301)
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)
Principles of World Climate (MET 102)
Modern Biology I (lecture) (BIO 150)
Zoology (lab) (BIO 141)

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:

N/A

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

N/A

I. Other:

Guest lecturer:

March 2015	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

Created and edited online course material for publishing companies:

- 2014-2015 Created and edited online instructional and test bank material for McGraw Hill Publisher. This material accompanies Enger ED, Smith BF (2015) *Environmental Science: A Study of Interrelationships* (14th edition), McGraw Hill Publisher. ISBN: 978-0-07-353255-4
- 2013-2014 Created and edited online exercises using Google Earth for McGraw Hill Publisher. These exercises accompany Cunningham WP, Cunningham MA (2014) *Principles of Environmental Science: A Global Concern* (13th Edition), McGraw Hill Publisher. ISBN: 978-0-07-353254-7
- 2012-2013 Created and edited online exercises using Google Earth for McGraw Hill Publisher. These exercises accompany Cunningham WP, Cunningham MA (2013) *Principles of Environmental Science: Inquiry and Applications* (7th Edition), McGraw Hill Publisher. ISBN: 978-0-07-353251-6

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:

N/A

e. Creative Books:

N/A

2. Articles

a. Refereed Journal Articles:

- Dutton J, Fisher NS (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, Fisher NS (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, Fisher NS (2012) Bioavailability of sediment-bound and algal metals to killifish *Fundulus heteroclitus*. *Aquatic Biology* 16:85-96
- Dutton J, Fisher NS (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, Fisher NS (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, Fisher NS (2010) Intraspecific comparisons of metal bioaccumulation in the juvenile Atlantic silverside (*Menidia menidia*). *Aquatic Biology* 10:211-226
- Williams J, Dutton J, Chen C and Fisher NS (2010) Metal (As, Cd, Hg, and CH₃Hg) bioaccumulation from water and food by the benthic amphipod *Leptocheirus plumulosus*. *Environmental Toxicology and Chemistry* 29(8):1755-1761
- McHugh CMG, Seeber L, Cormier MH, Dutton J, Cagatay N, Polonia A, Ryan WBF and Gorur N (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, Mathews T, Dutton J (2010) Dietary sources dominate metal uptake in marine fish. *Rapport du Congrès de la Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée* 39:251

b. Non-refereed:

N/A

4. Abstracts:

N/A

5. Reports:

N/A

6. Book Reviews:

N/A

7. Other Works in Print:

Media coverage of research:

- 2014 Scott R, Grogg SL, Dutton J, Weltner R, Amper R. Exploring Critical Issues. ECI#067: Water: more valuable than oil? Telecare television network. Filmed: October 15th. Air date: November 23rd
- 2013 Brownawell B, Dutton J. After Sandy, scientists hunt for sewage in New York City's harbors. MotherJones.com. February 25th

B. Works not in Print

1. Papers Presented at Professional Meetings:

(* and ‡ denotes undergraduate and graduate students in my lab, respectively)

- Dutton J, Venuti V ‡ (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, Venuti V ‡ (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, Venuti V* (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, Cinquemani S* (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, McHugh CM, Christensen BA, Dutton J, Brownawell B, Gurung D (2013) Effects of Superstorm Sandy on depositional environments offshore Long Island, New York. American Geophysical Union Fall Meeting, San Francisco, CA
- Christensen BA, Goff JA, Austin JA, Browne CM, Duzgoren-Aydin NS, Flood RD, McHugh CM, Dutton J, Hosseini P, Brownawell B (2013) Soupy surface muds: a probable Sandy storm horizon with a potential source fingerprint. American Geophysical Union Fall Meeting, San Francisco, CA
- Dutton J, Record MJ* (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, Fisher NS (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 BA, Dutton J, Brown D (2010) Mio-Pliocene benthic foraminiferal biofacies changes in the Canterbury Basin. American Geophysical Union Fall Meeting, San Francisco, CA
- Williams JJ, Dutton J, Chen CY, Fisher NS (2010) Metal (As, Cd, Hg, CH₃Hg) 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, Fisher NS (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, Fisher NS (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
- Dutton J, Fisher NS (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, Fisher NS (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, Shaw J, Fisher NS, Dutton J (2007) *Fundulus heteroclitus*: A model organism for metal exposure and biotransfer from sediments in intertidal habitats. Estuarine Research Federation Conference, Providence, RI
- Dutton J, McHugh C, Cormier M.H, Seeber L, Cagatay N, Okay N, Ziangos K (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 Sections of the Geological Society of America Meeting, Washington, D.C.
- Dutton J, McHugh C, Cormier M-H, Seeber L, 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 CM, Cormier M, Seeber L, Cagatay N, Dutton J, Gurung D (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:

- | | |
|---------------|---|
| October 2015 | Factors influencing metal accumulation in estuarine and marine fish. Roberts lab seminar, Department of Biological Sciences, University of North Texas |
| 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 |

3. Consultancies:

N/A

4. Workshops:

Chen C, Dutton J, Fisher N and Williams J (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.

Chen C, Shaw J, Dutton J, Fisher NS (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 CM.G, Seeber L, Cormier M-H, Dutton J, Cagatay N, Polonia A (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

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:

- 2015-2016 Santangelo N, Dutton J, Bakker A. Monitoring metal contamination in a pharmaceutically valuable species and its use as a bioindicator for human recreational environments. Wilderness Medical Society Hultgren Grant (\$10,000)
- 2013-2014 Christensen B, McHugh CM, Flood RD, Brownawell B, Dutton J, O'Connell C. 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:

- 2016-2017 Dutton J, Bonner TH. 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. 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. Metal levels in shark fin soup and the risk to human health. Adelphi University Faculty Development Grant (\$4,270)
- 2012-2013 Dutton J. 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:

- 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 2007 North America annual meeting

IV. SERVICE

A. Institutional

1. University:

Texas State University:

N/A

Adelphi University:

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

2. College:

Texas State University:

N/A

Adelphi University:

N/A

3. Department/School:

Texas State University:

N/A

Adelphi University:

2015 Advisor, *Pi Epsilon*, the National Environmental Sciences Honor Society

2011-2015 Advisor, Environmental Action Coalition, Environmental Studies Program

2012-2015 Academic advisor for 20 undergraduate students

B. Professional:

2014-present Student presentation reviewer at the Society of Environmental Toxicology and Chemistry (SETAC) North America annual meetings

2013 Book reviewer for a future new textbook edition: Chiras DD (2013) *Environmental Science* (9th Edition), Jones and Bartlett Learning, ISBN: 978-1-44-964531-1

2013 Book reviewer for a new textbook: *Learn Environmental Science*, Jones and Bartlett Learning

2012 Textbook accuracy reviewer: Trujillo AP, Thurman HV (2013) *Essentials of Oceanography* (11th Edition), Prentice Hall. ISBN: 978-0-32-181405-0

2012-present Peer-reviewer for:
Ecotoxicology and Environmental Safety (2015)
Ecotoxicology (2014)
Journal of Geochemical Exploration (2014)
Science of the Total Environment (2014)
Turkish Journal of Fisheries and Aquatic Sciences (2013)
Aquatic Biology (2012)

Professional affiliations:

2015-present American Elasmobranch Society

2015-present American Killifish Association

2014-present Wilderness Medical Society

2013-present American Fisheries Society

2013-present Coastal and Estuarine Research Federation

2008-present American Society of Limnology and Oceanography

2007-present Society of Environmental Toxicology and Chemistry

C. Community:

N/A

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