

Thomas J Mozdzer, Ph.D.

Department of Biology
Bryn Mawr College
101 N Merion Ave.
Bryn Mawr, PA 19010

Phone: (610) 526-5098
Fax: (610) 526 - 5086
E-mail: tmozdzer@brynmawr.edu

APPOINTMENTS

Chair of Biology - Bryn Mawr College, Bryn Mawr, PA	2021 - Present
Professor of Biology - Bryn Mawr College, Bryn Mawr, PA	2023 - Present
Associate Professor - Bryn Mawr College, Bryn Mawr, PA	2018 - 2023
Assistant Professor - Bryn Mawr College, Bryn Mawr, PA	2012 - 2018
Visiting Research Professor - Aarhus University, Aarhus, Denmark	2019
Research Associate - Smithsonian Environmental Research Center	2012 - Present
Visiting Scientist - Belle Baruch Institute for Marine and Coastal Studies	2012
Smithsonian Fellow - Smithsonian Environmental Research Center	2009 - 2012
Secretary's Distinguished Research Fellow , Smithsonian Institution	2009 - 2011
Fulbright Scholar - Jagiellonian University, Krakow, Poland	2000 - 2001

EDUCATION

2009	University of Virginia , Charlottesville, VA Ph.D. Environmental Sciences Advisors: Dr. Karen McGlathery & Dr. Joseph Zieman
2005	University of Virginia , Charlottesville, VA M.S. Environmental Sciences Advisor: Dr. Joseph Zieman
2000	Fairfield University , Fairfield, CT B.S. Biology <i>cum laude</i> Advisor: Dr. Randolph Chambers
1997	Jagiellonian University , Krakow, Poland Polish Ministry of National Education Scholar for 1997-1998

RESEARCH EXPERIENCES & TRAINING

2000-2001	Fulbright Fellow, Institute of Environmental Sciences, Jagiellonian University,
1999	Student Intern, University of Georgia Marine Institute, Sapelo Island, GA.
1999	NSF REU, Grice Marine Lab, College of Charleston, Charleston, SC.
1997-1999	Research Assistant, Fairfield University, Fairfield, CT

GRANTS, FELLOWSHIPS, & AWARDS
CUMULATIVE FUNDING TO DATE: \$7,155,791

CURRENT FUNDING (\$3,891,240 WITH \$1,642,540 TO BRYN MAWR COLLEGE)

- 2022 **NSF-DEB-2224251 (\$60,999) 2022-2023.** Supplement to Collaborative: RUI: BEE: C-EVO: Linking Carbon cycling to eco-EVOlutionary responses of a foundational plant to global change. Funds a full year post baccalaureate scholar.
- 2021 **NSF-DEB-2051602 (\$1,892,334 with \$1,394,743 to PI Mozdzer) 2021-2026.** Collaborative: RUI: BEE: C-EVO: Linking Carbon cycling to eco-EVOlutionary responses of a foundational plant to global change. Co-PI Michael Blum, University of Tennessee-Knoxville.
- 2021 **NSF LTREB- 2051343 (\$600,000) 2021-2026.** LTREB: Thirty-four years of tidal marsh responses to environmental change. Co-PI with Drs. J. Adam Langley-Villanova University, J. Patrick Megonigal - Smithsonian Environmental Research Center, and G, Noyce- Smithsonian Environmental Research Center.
- 2019 **NSF-DEB -1902712 - (\$1,337,907 with \$186,798 to Senior Personnel Mozdzer) 2019-202.** Collaborative Research: TIDE: Legacy effects of long-term nutrient enrichment on recovery of saltmarsh ecosystems. Co-PI with Drs. Linda Deegan¹, David Johnson², James Nelson³, **Thomas J. Mozdzer⁴ (Note: Listed as Senior Personnel because of NSF DEB submission limits)**, Jennifer L. Bowen⁴ (Listed as Senior Personnel because of NSF DEB submission limits), and Anne Giblin⁵. Woods Hole Research Center¹, Virginia Institute of Marine Sciences², University of Louisiana Lafayette³, Northeastern University⁴, Marine Biological Laboratory⁵.

PREVIOUS FUNDING

- 2020 **PA SEA GRANT - (\$120,000) 2020-2022.** A paradigm shift: re-evaluating *Phragmites* and *Phragmites* management in terms of coastal resilience. PI.
- 2016 **NSF LTREB- 1557009 (\$450,000) 2016-2021.** Renewal Twenty-three years of tidal marsh responses to environmental changes. Co-PI with Drs. J. Adam Langley-Villanova University and J. Patrick Megonigal - Smithsonian Environmental Research Center.
- 2015 **NSF LTREB- 1457100 (\$90,000) 2015-2016.** Renewal Twenty-three years of tidal marsh responses to environmental changes. Co-PI with Drs. J. Adam Langley-Villanova University and J. Patrick Megonigal - Smithsonian Environmental Research Center.
- 2014 **NSF- OCE-1354124 - (\$1,651,140 with \$174,331 to PI Mozdzer) - 2014-2017.** Collaborative: "Ecosystem evolution and sustainability of nutrient enriched coastal saltmarshes." Bruce Peterson- Primary Investigator. Co Investigators: Linda Deegan¹, David Johnson¹, **Thomas J. Mozdzer² (PI on collaborative award)**, Jennifer L. Bowen³, Sergio Fagherazzi⁴. Marine Biological Laboratory¹, Bryn Mawr College², University of Massachusetts - Boston³, Boston University⁴.

- 2014 **NSF-EAR-1428975 - \$199,914.** 2014-2016. Stable isotope analyses in a liberal arts college setting: teaching and research opportunities for undergraduates and faculty. Co-PI with Pedro Marengo.
- 2014 **HHMI – NEW DIRECTIONS - \$12,000** - Effects of chronic nitrogen pollution on carbon cycling in salt marsh ecosystems. **Principle Investigator.**
- 2012 **Maryland Sea Grant & Smithsonian Institution (\$240,120)** 2012-2015. *Phragmites australis* invasion in the Chesapeake Bay: Implications of nitrogen pollution, elevated CO₂, and genotypic variation for tidal marsh management. **Principle Investigator** with Drs. J. Patrick Megonigal and Melissa McCormick. Due to Smithsonian Policy, J.P. Megonigal is listed as PI. \$160,080 from Maryland Sea Grant & \$80,040 from Smithsonian Institution Match Fund.
- 2010 **NSF LTREB-0950080 (\$413,711)** 2010-2015. Twenty-three years of tidal marsh responses to environmental changes. Co-PI with Drs. J. Adam Langley, J. Patrick Megonigal, & Bert Drake, Smithsonian Environmental Research Center.
- 2010 **MARINE SCIENCE NETWORK (\$30,000):** 2010-2012. *Phragmites australis* invasion at elevated atmospheric CO₂ and temperature. Principle investigator with Dr. J. Patrick Megonigal, Smithsonian Environmental Research Center.
- 2009 **MD SEA GRANT PROGRAM DEVELOPMENT AWARD (\$14,500)** *Phragmites australis* invasion at elevated atmospheric CO₂: Implications for tidal marsh vulnerability to sea level rise. Principle investigator with Dr. J. Patrick Megonigal, Smithsonian Environmental Research Center.
- 2008 TRAVEL AWARD (\$900) Woods Hole Sea Grant
- 2008 TRAVEL AWARD (\$1000) Restore America's Estuaries
- 2008 RESEARCH GRANT (\$666) SOCIETY of Wetland Scientists South Atlantic Chapter.
- 2007 FRED H. MOORE RESEARCH AWARD (\$4,000) University of Virginia
- 2006 TRAVEL AWARD (\$1,000) Society of Wetland Scientists
- 2006 TRAVEL AWARD (\$1,000) South Atlantic Chapter, Society of Wetland Scientists
- 2005 EXPLORATORY RESEARCH AWARD (\$1000) University of Virginia
- 2000 FULBRIGHT FELLOWSHIP (\$24,000) Council for International Exchange of Scholars
- 1997 POLISH MINISTRY OF EDUCATION FELLOWSHIP. (\$5,600) Full tuition & stipend to study at Jagiellonian University, Krakow, Poland as guest scholar of Polish government.
- 1997 PEPSICO SCHOLARSHIP (\$4000) to study in Eastern Europe

PEER-REVIEWED PUBLICATIONS

51 TOTAL, WITH 24 STUDENT/ POSTDOC 1ST AUTHOR OR CORRESPONDING AUTHOR

* Student author, ** sponsored postdoc author, ✂ corresponding author, † shared 1st author

Google scholar statistics (8/8/23): h-index 26; i10-index 41; total citations 2,777

MANUSCRIPTS CURRENTLY IN REVIEW, REVISION, OR PREPARATION (8 TOTAL)

Shepard, L.W*, G. Cott, F. Romero, J.S. Weis, E. Kiviat, **T.J. Mozdzer**✂. Positive effects of *Phragmites australis* invasion on ecosystem services: lessons learned from a meta-analysis. Revising for *Frontiers in Marine Science*.

Cocciardi, J.M., A.M. Hoffman, D.F. Alvarado-Serrano, J. Anderson, M. Blumstein, E.L. Boehm, L.G. Bolin, I.T. Borokini, G. Bradburd, H.A. Branch, L.A. Brudvig, Y. Chen, S.L. Collins, D. Gamba, N.P. Hannan, M.M Howard, J. Jaros, T.E. Junger, N.J. Kooyers, E.J. Kottler, J.A. Lau, M. Menon, **T.J. Mozdzer**, S.N. Sheth, M. Smith, K. Toll, M.C. Ungerer, M.L. Vahsen, S.M Wadgymar, A Waanen, K.D Whitney, M.L. Avolio. The Value of long-term ecological research for evolutionary insights. Submitted to *Nature Ecology and Evolution*. Previously submitted to *Trends in Ecology and Evolution*. Draft available upon request.

Arias-Ortiz, A., J. Wolfe, S. D. Bridgham⁴, S. Knox, G McNicol, B.A. Needelman, J. Shahan, E.J. Stuart-Haëntjens, L. Windham-Myers, P. Oikawa, D.D. Baldocchi, J. Caplan, M. Capocci, K. Czapla, R. K. Derby, H.L. Diefenderfer, I.Forbrich, G. Groseclose, J.Keller, C. Kelley, A. Keshta, H. Kleiner, K.W. Krauss, R. Lane, S.Mack, S. Moseman-Valtierra, **T.J. Mozdzer**, P.Mueller, S.C. Neubauer, G. Noyce, K.V.R. Schäfer, R. Sanders-DeMott, C. Schutte, R.Vargas, N. Weston, B.Wilson, J. Patrick Megonigal, J.R. Holmquist. Methane Fluxes in tidal marshes of the contiguous United States: A synthesis of fluxes and analysis of predictor variables. Submitting to *Global Change Biology*. – Draft available upon request.

Mozdzer, T. J., L.A. Deegan, M.K. McCormick, C.E. Bauer*, J.E. Bowen, L.A. Harris. Eutrophication induces heritable trait changes in a salt marsh foundation species. Previously submitted to *Nature Ecology and Evolution*, revising for *Science of the Total Environment*. Draft available upon request.

Trevathan-Tackett, S.M., S. Kepfer-Rojas, M. Malerba, P. I. Macreadie, I. Djukic, TeaComp H2O... **T.J.Mozdzer**. Global effects of ecosystem and climate on long-term belowground decomposition in wetlands. Submitting to *Global Change Biology*. Draft available upon request.

Furbeck, M.E., T.L. O'Halloran, E.M. Smith, **T.J. Mozdzer**, K. Barrett. Epiphytic coatings reduce leaf and canopy scale photosynthesis in a *Spartina alterniflora* salt marsh in North Carolina. In review. *Estuaries and Coasts*. Draft available upon request.

Lee, S*, **T. J. Mozdzer**, S.K. Chapman, M. Gonzalez Mateu, A.H. Baldwin, J.A. Langley. Does European introduced *Phragmites australis* experience below-ground microbial

enemy-release in North America. *Revisions requested @ Ecosphere. Preprint from bioRxiv*, 12 Nov 2021. DOI: [10.1101/2021.11.12.468454](https://doi.org/10.1101/2021.11.12.468454)

Sullivan, H.L., L.A. Deegan, J.L. Bowen, J.A. Nelson, **T.J. Mozdzer**. Determining the fate of land-derived nitrogen in salt marshes using a ¹⁵N isotope tracer approach. Previously submitted to *Estuaries and Coasts*, revising for submission to *Estuarine, Coastal, and Shelf Science*. Draft available upon request.

PUBLISHED MANUSCRIPTS (51 TOTAL)

- 2023** **Mozdzer, T.J.**, J.Meschter*, J.C. Caplan, A. Baldwin, J.P. Megonigal. Mining of deep nitrogen facilitates *Phragmites australis* invasion in coastal saltmarshes. *Estuaries & Coasts*. 46 (4), 998-1008.
- 2023** Mueller, P., L. Kutzbach, **T.J. Mozdzer**, E. Jesperssen, D. Barber, & F. Eller. Minerogenic salt marshes can function as important inorganic carbon stores. *Limnology & Oceanography*. 68(4), 942-952.
- 2023** Bernal, B**, S. Kim, & **T.J. Mozdzer**. Species specific priming alters deep soil organic matter dynamics. *Science of the Total Environment* Volume 859:159956 doi.org/10.1016/j.scitotenv.2022.159956
- 2022** McCormick, M.K., K.L. Good, **T. J. Mozdzer**, D. F. Whigham. Shade and drought affect fungal contribution to partially mycoheterotrophic terrestrial orchids, *Goodyera pubescens* and *Tipularia discolor*. *Frontiers in Ecology and Evolution*. doi: 10.3389/fevo.2022.1047267
- 2022** **Mozdzer, T. J**, M.K. McCormick, I. Slette, M.J. Blum, & J.P. Megonigal. Rapid evolution of a coastal marsh ecosystem engineer to global change. *Science of the Total Environment*. 853:157846. doi: 10.1016/j.scitotenv.2022.157846
- 2022** Gabriel, J.R. *, J. Reid, L. Wang, **T.J. Mozdzer**, D.F. Whigham, J.P. Megonigal, & J.A. Langley. Interspecific competition is prevalent and stabilizes plant production in a brackish marsh facing sea level rise. *Estuaries and Coasts*. doi.org: 10.1007/s12237-021-01043-9
- 2021** Holmquist, J.R., L. Schile-Beers, K. Buffington, M. Lu, **T.J. Mozdzer**, J. Riera, D. Weller, M. Williams, J. P. Megonigal. Scalability and performance tradeoffs in quantifying relationships between elevation and tidal wetland plant communities. *Marine Ecology Progress Series*. 666, 57-72.
- 2021** Garrison, J.R.,* V.Douhovnikoff, J. A. Caplan, **T.J. Mozdzer**, J.A. Caplan, B.A. Logan. Responses of stomatal features and photosynthesis to porewater N enrichment and elevated atmospheric CO₂ in *Phragmites australis*, the common reed. *American Journal of Botany*. 108 (4): 718-725.

- 2021 Kwon, T. *et. al.* (including **T.J. Mozdzer**, S. Freda*, & P. Weber*). Effects of climate and atmospheric nitrogen deposition on early to mid-term stage litter decomposition across biomes. *Frontiers in Forests and Global Change*. 90.
- 2021 Djukic *et.al.* (including **T.J. Mozdzer**, S. Freda*, & P. Weber*). The TeaComposition initiative: Unleashing the power of international collaboration to understand litter decomposition. *Soil Organisms* 93 (1), 73-78
- 2020 **Mozdzer, T.J.**, S.E. Drew*, J.S. Caplan, P.E. Weber*, L.A. Deegan. Rapid recovery of carbon cycle processes after the cessation of chronic nutrient enrichment. *Science of the Total Environment*. doi.org/10.1016/j.scitotenv.2020.140927
- 2020 **Mozdzer, T.J.**, E.B Watson, W.H. Orem, C.M. Swarzenski, & R.E. Turner. Unraveling the Gordian Knot: Eight testable hypotheses on the effects of nutrient enrichment on tidal wetland sustainability. *Science of the Total Environment*. 743: 140420.
- 2020 Mueller, P. **T.J. Mozdzer**, J.A. Langley, L.R. Aoki*, G.L. Noyce, J.P. Megonigal. Plant species determine tidal wetland methane responses to sea level rise. *Nature Communications*. doi.org/10.1038/s41467-020-18763-4
- 2020 Bowen, J.L., A.E. Giblin, A.E. Murphy, A.N. Bulseco, L.A. Deegan, D.S. Johnson, J.A. Nelson, **T. J. Mozdzer**, & H.L. Sullivan. Not all nitrogen is created equal: differential effects of nitrate and ammonium enrichment in coastal wetlands. *Bioscience*. 70 (12) 1108-1119. **Note: Highlighted on the issue cover.**
- 2020 Eller, F.E., X. Guo, S. Ye, **T.J. Mozdzer**, H. Brix. Suitability of Wild *Phragmites australis* as Bio-Resource: Tissue Quality and Morphology of Populations from Three Continents. *Recourses*. 9(12), 143.
- 2019 Kiviat, E., L.A. Meyerson, **T. J. Mozdzer**, W.J. Allen, A.H. Baldwin, G.P. Bhattarai, H. Brix, J.S. Caplan, K.M. Kettenring, C. Lambertini, P. Pysek, J. Weis, D. Whigham, J.T. Cronin. Evidence does not support the targeting of cryptic invaders at the subspecies level using classical biocontrol: the example of *Phragmites*. *Biological Invasions*. 21(8) 2529-2541.
- 2019 Ding, X. S. Ye, E.A. Laws, **T.J. Mozdzer**, H. Yuan, L. He, G. Zhao, S. Yang, J. Wang. The concentration distribution and pollution assessment of heavy metals in surface sediments of the Bohai Bay, China. *Marine Pollution Bulletin*. 149: 110497.
- 2018 **Mozdzer, T. J.** & J.S. Caplan. Complementary responses of morphology and physiology enhance stand scale production under elevated CO₂ and nitrogen. *Functional Ecology*. 32(7), 1784-1796.
- 2018 Geoghegan*, E.K, J.S. Caplan, F.N. Leech*, P.E. Weber*, C.E. Bauer*, & **T.J. Mozdzer***. Nitrogen enrichment alters carbon fluxes in a New England salt marsh. 4 (11), 277-287. *Ecosystem Health & Sustainability*

- 2018 Cott, G. J.S. Caplan^{**}, & **T.J. Mozdzer^{*}**. Nitrogen uptake kinetics and saltmarsh plant responses to global change. *Scientific Reports*. **8**, 5393
- 2018 Djukic, I, S.Kepfer-Rojas, I.K. Schmidt, K.S. Larsen, C. Beier, B. Berg, K.Verheyen, & TeaComposition (**T.J. Mozdzer**, S. Freda^{*}, P.E. Weber^{*} & others). Early stage litter decomposition across biomes. *Science of the Total Environment*. **6285-629**, 1369-1394.
- 2018 Mueller, P., L.M. Schile-Beers, **T.J. Mozdzer**, G.L. Chmura, T. Dinter, Y. Kuzyakow, A.V. de Groot, P. Esselink, C. Smit, A. D'Alpaos, C. Ibanez, M. Lazarus, U. Neumeier, B. Johnson, A.H. Baldwin, S.A. Yarwood, D.I. Montemayor, Z. Yang, J. Wu, K. Jensen, & S. Nolte. Global change effects on early stage decomposition processes in tidal wetlands: implications from a global survey using standardized litter. *Biogeosciences Discussions*. doi:10.5194/bg-2017-533
- 2017 Eller, F., H. Skalova, J.S. Caplan, G.P. Bhattarai, M.K. Burger, J.T. Cronin, W.Y. Guo, E.L. Hazelton, K.M. Kettenring, C. Lambertini, M.K. McCormick, L.A. Meyerson, **T.J. Mozdzer**, P. Pysek, B.K. Sorrell, D.F. Whigham, & H. Brix. Cosmopolitan species as ecophysiological models for responses to global change: the common reed *Phragmites australis*. *Frontiers in Plant Science*. DOI: 10.3389/fpls.2017.01833
- 2017 Bernal, B^{**}, J. P. Megonigal, & **T.J. Mozdzer**. An invasive wetland grass primes deep soil carbon pools. *Global Change Biology*. **23**, 2104-2116 doi:10.1111/gcb.13539
- 2017 Caplan, J.C. ^{**}, B.W.G. Stone, C.A. Faillace, J.J. Lafond, J. Baumgarden, **T.J. Mozdzer**, J.Dighton, S.J. Meiners, J.C. Grabosky, J.G. Ehrenfeld. "Root traits of forest shrubs correspond with interspecific differences in productivity and population growth." *Annals of Botany*. **119**, 977-988 doi: 10.1093/aob/mcw271
- 2017 Packer, J. L.A. Meyerson, D.M. Richardson, G. Brundu, W.J. Allen, G.P. Bhattarai, H. Brix, S. Canavan, S. Castiglione, A. Cicatelli, J. Cuda, J.T. Cronin, F. Eller, F. Guarino, W.H. Guo, W.Y. Guo, X. Guo, C. Lambertini, J. Liu, V. Lozano, **T.J. Mozdzer**, H. Skalova. "Global networks for invasion science: benefits, challenges, and guidelines." *Biological Invasions* **19**, 1081-1096. doi: 10.1007/s10530-016-1302-3.
- 2016 Lu, M, J.S. Caplan^{**}, J. Bakker, J.A. Langley, **T.J. Mozdzer**, B. Drake, J.P. Megonigal. Allometry data and equations for coastal marsh plants. *Ecology*. doi:10.1002/ecy.1600
- 2016 **Mozdzer, T. J.**, J.S. Caplan^{**}, R.N Hager^{*}, C.E. Proffitt, L.A. Meyerson. Contrasting trait responses to latitudinal climate variation in two lineages of an invasive grass. *Biological Invasions*. **18**: 2649. doi:10.1007/s10530-016-1218-y
- 2016 Johnson, D.S., R.S. Warren, L.A. Deegan, & **T.J. Mozdzer**. Saltmarsh plant responses to eutrophication. *Ecological Applications*. doi: 10.1002/eap.1402
- 2016 **Mozdzer, T. J.**, J. A. Langley, P. Mueller, & J. P. Megonigal. Deep rooting and global change facilitate spread of invasive grass. *Biological Invasions*. **18** (9), 2619-2631
- 2016 Bernal, B^{**}. D.C. McKinley, P.M. White, **T.J. Mozdzer**, J.P. Megonigal. Limits to soil carbon stability; Deep, ancient soil carbon decomposition stimulated by new labile organic inputs. *Soil Biology & Biochemistry* **98**:85-94. doi: 10.1016/j.soilbio.2016.04.007.

^{**}Sponsored postdoc

- 2016 Mueller, P. †, R. N. Hager*†, J.E. Meschter*, **T.J. Mozdzer**, J.A. Langley, K. Jensen, J.P. Megonigal. Complex invader-ecosystem interactions and seasonality mediate the impact of non-native *Phragmites* on CH₄ emissions. *Biological Invasions*. 18: 2635. doi:10.1007/s10530-016-1093-6. *undergraduate student & co-first author, **
- 2015 Caplan, J.S**., R. N. Hager*, J. P. Megonigal, **Mozdzer, T. J.**, Global Change increases stand level carbon fixation by a wetland ecosystem engineer. *Environmental Research Letters*. 10(11): 115006. doi:10.1088/1748-9326/10/11/115006 *undergraduate student, ** Sponsored postdoc.
- 2014 **Mozdzer, T. J.**, K.J. McGlathery, A.L. Mills, & J.C. Zieman. Latitudinal variation in the availability and use of dissolved organic nitrogen in Atlantic Coast salt marshes. *Ecology*. doi: 10.1890/13-1823.1
- 2014 Hines, J. Reyes, M. **T.J. Mozdzer**, & M. Gessner. Genotypic trait variation modified effects of warming and nitrogen deposition on ecosystem function. *Global change Biology*. doi: 10.1111/gcb.12704
- 2014 J.C. Caplan**, C. Wheaton*, & **T.J. Mozdzer**. Belowground advantages in construction cost facilitate a cryptic plant invasion. *AoB Plants*. plu020. doi: 10.1093/aobpla/plu020. *undergraduate student, **postdoc.
- 2014 Silliman, B.R., **T.J. Mozdzer**, C. Angelini, J.E. Brundage, J.P. Bakker, P. Esslink, J. van de Koppel, A.H. Baldwin. Livestock as a biological control agent for an invasive wetland plant. *Peer J*. doi: 10.7717/peerj.567.
- 2014 Hazelton†, E.L.G, **T.J. Mozdzer**†, D. Burdick, K.M. Kettenring, & D. Whigham. *Phragmites australis* management in the United States: 40 years of methods and outcomes. *AoB PLANTS* plu001. doi: 10.1093/aobpla/plu001 † **Note: Authors contributed equally - Invited review**
- 2013 **Mozdzer, T. J.**, J. Brisson, & E. Hazelton. Physiological ecology and interactions between North American native and introduced lineages of common reed, *Phragmites australis*. *AoB PLANTS*. plt048 doi:10.1093/aobpla/plt048. **Invited review - EDITOR'S CHOICE**
- 2013 **Mozdzer, T. J.** & J.P. Megonigal. Increased methane emissions by an introduced *Phragmites australis* lineage under global change. *Wetlands*. 3(4):609-615. doi: 10.1007/s13157-013-0417-x.
- 2013 Langley, J.A. **T.J. Mozdzer**, K.A. Shepard, S.B. Hagerty, J.P. Megonigal. Tidal marsh plant response to elevated CO₂, nitrogen fertilization, and sea level rise. *Global Change Biology*. 19(5): 1495-1503. doi: 0.1111/gcb.12147
- 2012 **Mozdzer, T. J.** & J.P. Megonigal. Jack-and-Master trait responses to elevated CO₂ and N: a comparison of native and introduced *Phragmites australis*. *PLoS ONE* 7(10): e42794. doi: 10.1371/journal.pone.0042794
- 2011 **Mozdzer, T. J.**, M.L. Kirwan, J.C. Zieman, & K.J. McGlathery. Nitrogen uptake by shoots of smooth cordgrass *Spartina alterniflora*. *Marine Ecology-Progress Series*. 443:43-52 doi: 10.3354/meps09117

- 2011 Kathilankal, J.C., **T.J. Mozdzer**, J.D. Fuentes, K.J. McGlathery, P.D'Odorico, J.C. Zieman. Physiological responses of *Spartina alterniflora* to varying environmental conditions in Virginia marshes. *Hydrobiologia*. 669 (1): 167-181. doi: 10.1007/s10750-011-0681-9
- 2011 Brantley, S.L, J.P. Megonigal, F.N. Scatena, Z. Balogh-Brunstad, R.T. Barnes, M.A. Bruns, P. Van Cappellen, K. Dontsova, H.E. Hartnett, A.S. Hartshorn, A. Heimsath, E. Herndon, L. Jin, C.K. Keller, J.R. Leake, W.H. McDowell, F.C. Meinzer, **T.J. Mozdzer**, S. Petsch, J.Pett-Ridge, K.S. Pregitzer, P.A. Raymond, C.S. Rieve, K. Shumaker, A. Sutton-Grier, R. Walter, K. Yoo Twelve testable hypotheses on the geobiology of weathering. *Geobiology*. 9(2): 140-165. doi: 10.1111/j.1472-4669.2010.00264.x
- 2010 **Mozdzer, T. J.** & J.C. Zieman. Ecophysiological differences between genetic lineages facilitate the invasion of non-native *Phragmites australis* in North American Atlantic Coast wetlands. *Journal of Ecology* 98 (2): 451-458. doi: 10.1111/j.1365-2745.2009.01625.x
- 2010 **Mozdzer, T. J.**, J.C. Zieman, & K.J. McGlathery. Nitrogen uptake by native and invasive temperate coastal macrophytes: Importance of dissolved organic nitrogen. *Estuaries & Coasts*. doi: 10.1007/s12237-009-9254-9
- 2008 **Mozdzer, T. J.** C. Hutto, P.A. Clarke, & D. Field. Efficacy of imazapyr and glyphosate in the control of non-native *Phragmites australis*. *Restoration Ecology* 16 (2): 221-224. doi: 10.1111/j.1526-100X.2008.00386.x
- 2008 Kathilankal, J.C., **T.J. Mozdzer**, J.D. Fuentes, P. D'Odorico, K.J. McGlathery, & J.C. Zieman. Tidal influences on carbon assimilation by salt marshes. *Environmental Research Letters* 3: 044010 (6pp). doi: 10.1088/1748-9326/3/4/044010
- 2003 **Mozdzer, T. J.**, P. Kramarz, A. Piskiewicz, and M. Niklinksa. Effects of cadmium and zinc on larval growth and survival in the ground beetle, *Pterostichus oblongopunctatus*. *Environment International* 28(8): 737-742. doi: 10.1016/S0160(02)00107-1
- 1998 Chambers, R.M., **T. J. Mozdzer**, J. C. Ambrose. Effects of salinity and sulfide on the distributions of *Phragmites australis* and *Spartina alterniflora* in a tidal marsh. *Aquatic Botany* 62:161-169. doi: 10.1016/S0304-3770(98)00095-3

ORAL PRESENTATIONS (54 TOTAL WITH 10 STUDENT* & 7 POSTDOC ** 1ST AUTHORS)

- 2023 **Mozdzer, T.J.** L. Wallace Shepard, F. Romero, G. Cott, J. Weis, & E. Kiviat. Rethinking *Phragmites* management in the context of ecosystem resilience with insights from a meta-analysis of ecosystem services in North American tidal wetlands. Partnership for the Delaware Estuary Summit, 30 Jan – 1 Feb. **Selected as Hot Topic**
- 2021 **Mozdzer, T.J.** L. Wallace Shepard, F. Romero, G. Cott, J. Weis, & E. Kiviat. Meta-analysis of ecosystem services provided by *Phragmites australis* in North American tidal wetlands. 26th Biennial Conference of the Coastal and Estuarine Research Federation. 1-11 November. **Anchor talk.**
- 2021 Wallace Shepard, L*, F. Romero, G. Cott, J. Weis, E. Kiviat, & **T.J. Mozdzer**. Meta-analysis of ecosystem services provided by *Phragmites australis* in North American tidal wetlands. Joint Atlantic Estuarine Research Society & New England Estuarine Research Society Spring 2021 Virtual Meeting. 27-30 April.

- 2021 Shaw, S.* M.K. McCormick & **T.J. Mozdzer**. Stuck in a slump: How changes in genetic diversity alter marsh stability. Joint Atlantic Estuarine Research Society & North East Estuarine Research Society Spring 2021 Virtual Meeting. 27-30 April.
- 2020 **Mozdzer, T.J.** Rapid recovery of carbon cycle processes after the cessation of chronic nutrient enrichment. Aoshan Forum - Toward ecosystem mitigations: Effects of climate change and associated environmental drivers on coastal wetland services. 11 August. Qingdao Institute of Marine Geology, Qindao, China (**invited panelist** - remote participation because of travel restrictions).
- 2019 **Mozdzer, T.J.**, S.E. Drew*, P.E. Weber*, B. Reed*, J.S. Caplan, & L.A. Deegan. Recovery of carbon cycle processes after the cessation of chronic nutrient enrichment. Coastal and Estuarine Research Federation Meeting. 3-7 November, Mobile, AL.
- 2019 **Mozdzer, T.J.**, J.S. Caplan, S.E. Drew*, P.E. Weber*, & B. Reed*. Nutrient reduction can reverse losses of soil carbon in coastal wetlands. 8th International Symposium on Wetland Pollutant Dynamics and Control (WETPOL). 17-21 June, Aarhus, DK. **Invited presentation.**
- 2018 Geoghegan, E. *, F. Leech, P. Weber, C. Bauer, & **T. J. Mozdzer**. Nitrogen enrichment alters carbon fluxes in a New England Salt Marsh. Society of Wetland Scientists Annual Meeting, 29 May – 1 June, Denver, CO.
- 2018 Mueller, P.,L.M. Schile-Beers, **T.J. Mozdzer**, K. Jensen, S. Nolte. Global-change effects on litter breakdown in tidal wetlands: Implications from a global survey using the Tea Bag Index. Ecology of Soil Microorganisms. 17-21 June, Helsinki, Finland. **Invited presentation.**
- 2017 **Mozdzer, T.J.**, M.K. McCormick, D. Barber, E. Geoghegan*, F. Leech*, C. Silva*, & L.A. Deegan. Nutrient enrichment induces environmental filtering to alter blue carbon pools and processes. Society of Wetland Scientists Annual Meeting, 5 -9 June, San Juan, Puerto Rico. **Invited presentation.**
- 2017 Bauer, C.E. *, J. A. Langley, L.A. Deegan, & **T. J. Mozdzer**. Interacting effects of genotype and environment on tall form *Spartina alterniflora*. . Society of Wetland Scientists Annual Meeting, 5 -9 June, San Juan, Puerto Rico.
- 2016 Warren, R.S., D.S. Johnson, L.A. Deegan, & **T.J. Mozdzer**. “Plot level results to ecosystem level responses: Extrapolate with caution. New England Estuarine Research Society Meeting, 20-22 October, Block Island, RI.
- 2016 **Mozdzer, T.J.**, M.K. McCormick, C. Bauer*, J.L. Bowen, L.A. Deegan. Long-term nitrogen fertilization reduces *Spartina alterniflora* genetic diversity altering ecosystem stability. Society of Wetland Scientists Annual Meeting, 31 May- 4 June, Corpus Christi, TX. **Invited presentation.**
- 2016 Bernal, B**, J.P. Megonigal, **T.J. Mozdzer**. An invasive wetland grass can prime deep soil carbon that was sequestered under native vegetation. Society of Wetland Scientists Annual Meeting, 31 May- 4 June, Corpus Christi, TX. **postdoc.
- 2015 **Mozdzer, T.J.**, M.K. McCormick, C. Bauer*, J. Bowen, L.A. Deegan. Long-term nitrogen fertilization reduced *Spartina alterniflora* genetic diversity altering ecosystem stability. Coastal and Estuarine Research Federation Meeting. 8-12 November, Portland, OR.

- 2015 McCormick, M, K., **T.J. Mozdzer**, C. Bauer*, J. Bowen, L.A. Deegan. Loss of *Spartina alterniflora* genetic diversity associated with marsh bank fragmentation after long-term fertilization. Ecological Society of America Annual Meeting. 9-14 August, Baltimore, MD.
- 2015 **Mozdzer, T.J.**, M.K. McCormick, J.S. Caplan*, J.P. Megonigal. Effects of elevated CO₂ and nitrogen pollution on *Phragmites australis* invasion. Ecological Society of America Annual Meeting. 9-14 August, Baltimore, MD.
- 2015 Caplan, J.S. *, R.N. Hager, J. P. Megonigal, **T. J. Mozdzer**. Gross primary productivity of *Phragmites australis* under elevated CO₂ and N enrichment. Ecological Society of America Annual Meeting. 9-14 August, Baltimore, MD.
- 2015 Bernal, B. *, **T. J. Mozdzer**, J. P. Megonigal. Invasive *Phragmites* enhances decomposition of deep, stable soil organic matter. Ecological Society of America Annual Meeting. 9-14 August, Baltimore, MD.
- 2015 **Mozdzer, T.J.**, M.K. McCormick, J.S. Caplan & J. P. Megonigal. Effects of elevated CO₂ and nitrogen on *Phragmites australis* invasion . Society of Wetland Scientists Annual Meeting, 31 May- 4 June, Providence, RI. **Invited presentation.**
- 2015 McCormick, M.K, I. Slette, **R.N. Hager***, J.S. Caplan, J. P. Megonigal, & **T.J. Mozdzer**. Genetic responses of *Phragmites* to multiple global change factors. Society of Wetland Scientists Annual Meeting, 31 May- 4 June, Providence, RI. **Invited presentation.**
- 2015 Bernal, B*, **T.J. Mozdzer**, & J.P. Megonigal. Species invasion can cause loss of ancient organic matter accumulated under native vegetation. Society of Wetland Scientists Annual Meeting, 31 May- 4 June, Providence, RI. **Invited presentation.**
- 2015 Caplan, J.S. *, **R. N. Hager***, J.P. Megonigal & **T.J. Mozdzer**. Multi-year responses of *Phragmites australis* leaf level physiology to elevated CO₂ and nitrogen enrichment. Society of Wetland Scientists Annual Meeting, 31 May- 4 June, Providence, RI. **Invited presentation.**
- 2015 Bernal, B*, **T.J. Mozdzer**, & J.P. Megonigal. Global change enhances effects of *Phragmites australis* on C and N pools and cycling to facilitate invasion. Society of Wetland Scientists Annual Meeting, 31 May- 4 June, Providence, RI. **Invited presentation.**
- 2015 **Hager, R.N.***, J. Meschter, P. Mueller, J.P. Megonigal, & **T.J. Mozdzer**. *Phragmites australis* invasion influences brackish marsh methane emissions. Society of Wetland Scientists Annual Meeting, 31 May- 4 June, Providence, RI. **Invited presentation.**
- 2015 **Meschter, J.* T.J. Mozdzer**, J.P. Megonigal, & A. Baldwin. Deeply rooting *Phragmites australis* utilized deep N pools to circumvent competition with native species and meet higher aboveground nitrogen demand. Society of Wetland Scientists Annual Meeting, 31 May- 4 June, Providence, RI. **Invited presentation.**
- 2014 Caplan, J.S. *, R.N. Hager*, J.P. Megonigal, & **T. J. Mozdzer**. Seasonal carbon fixation by an invasive wetland grass under global change scenarios. Joint Aquatic Sciences Meeting, 18-23 May, Portland, OR. **Invited presentation.**

- 2014 **Hager, R.N. ***, J.S. Caplan, J.P. Megonigal, & **T. J. Mozdzer**. Seasonal carbon fixation by an invasive wetland grass under global change scenarios. Joint Aquatic Sciences Meeting, 18-23 May, Portland, OR. **Invited presentation.**
- 2014 **Mozdzer, T.J.**, J.A. Langley & S. Chapman. IGNITE sub-session: Nutrient pollution and tidal wetland viability – the lightning round. Joint Aquatic Sciences Meeting, 18-23 May, Portland, OR.
- 2014 **Hager, R.N***, J.S. Caplan, J.P. Megonigal, & **T.J. Mozdzer**. *Phragmites australis* functional traits and carbon fixation are affected by anthropogenic climate change. Atlantic Estuarine Research Society Meeting, 27-29 March, 2014, Ocean City, MD. – **Outstanding student presentation award.**
- 2013 **Mozdzer, T.J.**, M.K. McCormick, & J. P. Megonigal. Effects of elevated CO₂ and nitrogen on *Phragmites australis* invasion . Coastal and Estuarine Research Federation Meeting, 3-8 November, San Diego, CA.
- 2013 **Meschter, J.,*** P. Mueller, **T.J. Mozdzer**, J. P. Megonigal, A. Baldwin, K. Jensen. Quantifying methane gas fluxes in relation to invading *Phragmites Australis* in tidal brackish marshes in a tributary of the Chesapeake Bay. Coastal and Estuarine Research Federation Meeting, 3-8 November, San Diego, CA
- 2013 **Mozdzer, T.J.**, J.A. Langley, P. Muller, & J. P. Megonigal. Deep rooting and elevated CO₂ facilitate invasion of introduced *Phragmites australis*. Soil Ecology Society Meeting, 11-14 June, Camden, NJ.
- 2013 **Mozdzer, T.J.**, J.A. Langley, P. Muller, & J. P. Megonigal. Elevated CO₂ increased *Phragmites australis* invasion in a Chesapeake Bay tidal marsh. Atlantic Estuarine Research Society Spring Meeting, 11-13 April, Williamsburg, VA.
- 2012 **Mozdzer, T.J.** & R.M. Chambers. *Phragmites australis*: Ecosystem Services. 39th Annual Natural Areas Conference, 9-12 October, Norfolk, VA.
- 2011 **Mozdzer, T.J.**, J. Brisson & J.P. Megonigal. Physiological ecology and global change responses of North American native and Eurasian introduced *Phragmites australis* lineages. International Conference of the Society of Wetland Scientists, 3-8 July, Prague, Czech Republic.
- 2011 Hazelton, E., **T.J. Mozdzer**, & D. Burdick. The current state of *Phragmites australis* management in the United States. International Conference of the Society of Wetland Scientists, 3-8 July, Prague, Czech Republic.
- 2011 Whigham, D., E. Hazelton, **T.J. Mozdzer**, K. M. Kettenring, M.K. McCormick, & A.H. Baldwin . Status, ecology, and management of *Phragmites australis* – Introduction to the symposium. International Conference of the Society of Wetland Scientists, 3-8 July, Prague, Czech Republic.
- 2011 Hines, J., **T.J. Mozdzer**, & M.O. Gessner. Ecosystem response to climate change varies across a latitudinal gradient. Annual Meeting of the Ecological Society of America, 7-12, August, Austin, TX.

- 2010 **Mozdzer, T.J.** & J.P. Megonigal. Family Feud: How native and introduced conspecifics of *Phragmites australis* respond to global change. Annual Meeting of the Ecological Society of America, 1-5 August, Pittsburgh, PA.
- 2009 **Mozdzer, T.J.**, M. Kirwan, K.J. McGlathery, & J.C. Zieman. Importance of foliar N uptake in *Spartina alterniflora* tidal marshes. International Conference of the Society of Wetland Scientists. 21-26 June, Madison, WI.
- 2009 **Mozdzer, T.J.** & J.C. Zieman. Global change drives the invasion of introduced *Phragmites australis* in North American salt marshes. 19th International Conference of the Estuarine Research Federation, 1-5 November, Portland, OR. **Invited presentation.**
- 2009 **Mozdzer, T.J.** Interactions of ecophysiology and global change as drivers in the spread of introduced *Phragmites*. Ecosystems Based Management Conference: the Chesapeake and other systems, 23 March, Baltimore MD. **Invited presentation and panelist.**
- 2008 **Mozdzer, T.J.** & J. C. Zieman. Non-native *Phragmites australis* expansion is facilitated by ecophysiological differences among lineages in tidal wetlands. Fall Meeting of the New England Estuarine Research Society, 16-18, October, Block Island, RI. **Ketchum Prize for Best Presentation.**
- 2008 **Mozdzer, T.J.**, K.J. McGlathery & J.C. Zieman. Latitudinal variation in the utilization of dissolved organic nitrogen by *Spartina alterniflora*. International Conference of the Society of Wetland Scientists, 26-30 May, Washington, DC.
- 2008 **Mozdzer, T.J.** & J. C. Zieman. Ecophysiological differences facilitate the expansion of introduced *Phragmites australis*. Spring Meeting of the Atlantic Estuarine Research Society, 14-15 March, Lewes, DE. **Best Presentation Award**
- 2007 **Mozdzer, T.J.**, J.C. Zieman, & K.J. McGlathery. Latitudinal variation in the availability and utilization of dissolved organic nitrogen by *Spartina alterniflora*. International Conference of the Estuarine Research Federation, 4-8 November, Providence, RI.
- 2007 **Mozdzer, T.J.** & J.C. Zieman. Photosynthetic differences between native and non-native haplotypes of *Phragmites australis*. Annual Meeting of the Ecological Society of America, 5-10 August, San Jose, CA.
- 2006 **Mozdzer, T.J.**, J.C. Zieman, & K.J. McGlathery. Utilization of dissolved organic nitrogen by the macrophytes *Spartina alterniflora* and *Phragmites australis*. International Conference of the Society of Wetland Scientists, 9-14 July, Cairns, Australia.
- 2006 **Mozdzer, T.J.** & J.C. Zieman. Photosynthetic differences between native and non-native haplotypes of *Phragmites australis*. 21st Annual Envirodays Research Symposium, 17 January, Charlottesville, VA.
- 2005 **Mozdzer, T.J.** Virginia Coast Long Term Ecological Research site level synthesis. LTER Student Collaborative Research Symposium. 13-17 April, Blue River, OR.
- 2005 **Mozdzer, T.J.**, J.C. Zieman, & K.J. McGlathery. Utilization of dissolved organic nitrogen by *Spartina alterniflora* and *Phragmites australis*. 20th Annual Envirodays Research Symposium, 18 January, Charlottesville, VA. **Best Presentation Award.**

- 2004 **Mozdzer, T.J.**, J.C. Zieman, & K.J. McGlathery. Utilization of dissolved organic nitrogen by the macrophytes *Spartina alterniflora* and *Phragmites australis*. Fall Meeting of the Atlantic Estuarine Research Society, 14-16 October, Lyndhurst, NJ.

POSTER PRESENTATIONS (32 TOTAL AND 14 BMC UNDERGRADUATE* 1ST AUTHOR)

- 2023 **Argueta-Roman***, S. Lee, M. McCormick, M. Blum, & **T.J. Mozdzer**. Eco-evolutionary changes in *Phragmites* inflorescence morphology over a decade of exposure to elevated CO₂ and N. Society of Wetland Scientists Annual Meeting, 27-30 June, Spokane, WA.
- 2023 **Kaulbach, G***. M. Shimon, S. Bower*, M. McCormick, M. Blum, & **T.J. Mozdzer**. Genotypic variation in decomposition: New insights into integrating eco-evolutionary processes into carbon cycle studies. Society of Wetland Scientists Annual Meeting, 27-30 June, Spokane, WA.
- 2023 **Smeltzer, J. M.** McCormick, & **T.J. Mozdzer**. Effects of global change on phenotypic traits of *Phragmites australis*. Atlantic Estuarine Research Society Meeting, 23-25 March, Lewes, DE. **Best student poster award**
- 2023 **Argueta-Roman***, S. Lee, M. McCormick, M. Blum, & **T.J. Mozdzer**. Eco-evolutionary changes in *Phragmites* inflorescence morphology over a decade of exposure to elevated CO₂ and N. Atlantic Estuarine Research Society Meeting, 23-25 March, Lewes, DE. **Honorable Mention**
- 2023 **Kaulbach, G***. M. Shimon, S. Bower*, M. McCormick, M. Blum, & **T.J. Mozdzer**. Genotypic variation in decomposition: New insights into integrating eco-evolutionary processes into carbon cycle studies. Atlantic Estuarine Research Society Meeting, 23-25 March, Lewes, DE.
- 2018 **Laske, J.*** & **T.J. Mozdzer**. Effects of *Phragmites australis* invasion and global change on decomposition in a brackish salt marsh. Atlantic Estuarine Research Society Meeting, 5-7 April, Lewes, DE.
- 2018 **Weber, P., S. Drew, T.J. Mozdzer**. Using tea bags to monitor decomposition in a New England salt marsh. Atlantic Estuarine Research Society Meeting, 5-7 April, Lewes, DE.
- 2017 **Mozdzer, T.J.**, M.K. McCormick, D. Barber, **E. Geoghegan, F. Leech, C. Silva, & L.A. Deegan**. Nutrient enrichment induces environmental filtering to alter blue carbon pools and processes. Ocean Carbon Biogeochemistry Meeting 26 -29 June, Woods Hole, MA.
- 2015 **Leech, F*, C. E. Bauer*, L. Brougham*, R. Chernow*, E. Geoghegan*, J. Hurley*, G. Klinges*, T. McCabe*, A. Mejia*, M. Sumner-Moore*** S. Record, R.S. Warren, **T. J. Mozdzer**. Mangrove habitat modification results in persistent long-term changes in nursery fish density and diversity. Coastal and Estuarine Research Federation Meeting. 8-12 November, Portland, OR.
- 2015 **Bauer, C.E.* , F. Leech*, E. Johnson*, T. Aziz*, L.A. Deegan, R.S. Warren, J.S. Caplan, & T. J. Mozdzer**. Effects of nitrogen enrichment on plant functional traits and phenology in smooth cordgrass, *Spartina alterniflora*. Coastal and Estuarine Research Federation Meeting. 8-12 November, Portland, OR.

- 2015 Kelly, B., B. Bernal, J. P. Megonigal, T.J. Mozdzer, J.A. Langley. Wetland carbon and nitrogen mineralization in response to biotic and abiotic global change. Ecological Society of America Annual Meeting, 9-14 August, Baltimore, MD.
- 2015 **Leech, F.*, C. E. Bauer*, P. Vaddi***, J.A. Langley, J.P. Megonigal & **T.J. Mozdzer**. Effects of multiple interacting global change factors on introduced common reed, *Phragmites australis*. 120th Anniversary Research Conference of the New England Botanical Club. 5-7 June, Northampton, MA.
- 2015 Mueller, P., J.E. Meschter, **R.N. Hager***, **T.J. Mozdzer**, K. Jensen, J.A. Langley, A. Baldwin, & J. P. Megonigal. Invading *Phragmites australis* stimulates methane emissions from North American tidal marshes. Geophysical Research Abstracts. Vol. 17, EGU2015-3606-3, 2015. European Geophysical Union. General Assembly 2015.
- 2014 **Geoghegan, E***, J.S. Caplan, **Brougham, L***, **Hager, R.N***, & **T.J. Mozdzer**. Carbon fixation by the invasive common reed under current and near future CO₂ and nitrogen conditions. Mid-Atlantic Regional Climate Symposium, 21 November, Rutgers, New Brunswick, NJ.
- 2014 **Mozdzer, T.J.** & J.P. Megonigal. Increased root productivity by invasive plants increase tidal wetland viability under nutrient pollution and elevation CO₂. Joint Aquatic Sciences Meeting, 18-23 May, Portland, OR.
- 2014 **Hager, R.N***, J.S. Caplan, J.P. Megonigal, & **T.J. Mozdzer**. Rising CO₂ and N influence *Phragmites australis* functional traits and carbon fixation. Society of Wetland Scientists Meeting – Mid Atlantic Chapter, 4-5 March, State College, PA.
- 2014 Caplan, J.S., **C. Wheaton***, **T.J. Mozdzer**. Tissue construction costs for conspecific lineages of *Phragmites australis* under global change. Atlantic Estuarine Research Society Meeting, 27-29 March, 2014, Ocean City, MD.
- 2014 **Bauer, C.E***, J.S. Caplan, J.A. Nelson, L.A. Deegan & **T.J. Mozdzer**. Effects of nitrogen fertilization on *Spartina alterniflora* growth. Atlantic Estuarine Research Society Meeting, 27-29 March, 2014, Ocean City, MD.
- 2014 **Mozdzer, T.J.**, M.K. McCormick, J.L. Bowen, L.A. Deegan. Chronic nutrient pollution causes a shift in genotype diversity and identity in a New England salt marsh. Plum Island Ecosystems –LTER All Scientists Meeting, 27-28 April, Woods Hole, MA.
- 2012 **Hagerty, S.B.***, Langley, **Mozdzer, T.J.**, **Aoki, L.R.***. Megonigal, J.P. Methane production and emissions from a tidal wetland under multifactor global change. 97th Annual Meeting of the Ecological Society of America, 5-10 August, Portland, OR.
- 2012 Mozdzer, T.J., Megonigal, J. P. & **Gonzalez, D***. Global change and cryptic invasion increase methane emissions. Spring Meeting of the Atlantic Estuarine Research Society, 8-10, March, Cape May, NJ.
- 2009 **Mozdzer, T.J.**, Hutto, C., Clarke, P.A., Field, D. Efficacy of imazapyr and glyphosate in the control of *Phragmites australis*. 24th Annual Environmental Sciences Research Symposium, 12 January, Charlottesville, VA. **Best Presentation Award**.
- 2008 **Mozdzer, T.J.**, Hutto, C., Clarke, P.A., Field, D. Efficacy of imazapyr and glyphosate in the control of *Phragmites australis*. 4th National Conference on Coastal and Estuarine Restoration. 11-15 October, Providence, RI.

- 2008 **Mozdzer, T.J.**, J.C. Zieman, & K.J. McGlathery. Latitudinal variation in the availability and utilization of dissolved organic nitrogen by the smooth cordgrass, *Spartina alterniflora*, in North American salt marshes. 23rd Annual Envirodays Research Symposium, 15 January, Charlottesville, VA. **Best Presentation Award.**
- 2007 **Mozdzer, T.J.**, J.C. Zieman, & K.J. McGlathery. Latitudinal variation in the availability and utilization of dissolved organic nitrogen by the smooth cordgrass, *Spartina alterniflora*, in North American salt marshes. 10th International Symposium on Wetland Biogeochemistry, 1-4 April, Annapolis, MD. **Best Presentation Award.**
- 2006 **Mozdzer, T.J.**, J.C. Zieman, & K.J. McGlathery. Latitudinal gradients in the utilization and availability of dissolved organic nitrogen by the smooth cordgrass, *Spartina alterniflora*, a cross LTER site study. 20-23 September, Estes Park, CO.
- 2005 **Mozdzer, T.J.**, J.C. Zieman, & K.J. McGlathery. Dissolved organic nitrogen, a neglected pool of nitrogen in tidal marsh systems. 18th International Conference of the Estuarine Research Federation. 16-20 October, Norfolk, VA. **2nd Best Presentation Award.**
- 2004 **Mozdzer, T.J.** and J. C. Zieman. Photosynthetic differences and the effects of salinity on nitrogen uptake in native and non-native *Phragmites australis* haplotypes. Spring Meeting of the Atlantic Estuarine Research Society, 25-27 March, Salisbury, MD. **Best Presentation Award.**
- 2003 **Mozdzer, T.J.** and J.C. Zieman. 2003. A comparative study of native and introduced *Phragmites australis* haplotypes in Virginia. LTER All Scientist Meeting, September 18-21, Seattle, Washington.
- 2002 Kramarz, P., Piskiewicz, A., **Mozdzer, T.J.**, Niklinksa, M. Two-generation response of ground beetle (*Pterostichus oblongopunctatus*) from metal-polluted sites to cadmium and zinc intoxication. SETAC Europe 12th Annual Meeting, 12-16 May, Vienna, Austria.
- 2001 **Mozdzer, T.J.**, P. Kramarz, A. Piskiewicz, M. Niklinska. Accumulation of Cadmium and Zinc in the larval stage of the ground beetle, *Pterostichus oblongopunctatus* F. 6th European Conference on Ecotoxicology and Environmental Safety, SECOTOX, 20-24 August, Krakow, Poland.
- 1997 Chambers R.M., **T.J. Mozdzer**, & J.C. Ambrose. 1997. Effects of salinity and sulfide on nitrogen uptake of *Phragmites* and *Spartina*. 14th International Conference, Estuarine Research Federation, Providence, RI.

INVITED RESEARCH SEMINARS

- 2023 Global Ocean Summit, Qingdao China, September 26
- 2022 Aoshan Forum, Qingdao Institute of Marine Geology, 16 December
- 2022 Stony Brook University, Department of Ecology and Evolution, 26 January
- 2022 NOAA Science Seminar Series, webinar, 14 January
- 2021 NOAA Science Seminar Series, webinar, 12 November
- 2021 University of New Hampshire, Durham, NH, 21 March
- 2020 Fairfield University, Fairfield, CT, 30 September
- 2019 Temple University, Philadelphia, PA, 23 September

2019 Franklin & Marshall College, Lancaster, PA, 28 January
 2019 Aarhus University, Department of Bioscience, Aarhus, Denmark 6 June.
 2018 Jiangxi Agricultural University, Nanchang, China, 25 September
 2018 Qingdao Institute of Marine Geology, Qingdao, China, 20 September
 2017 Rutgers University, Department of Biology, Newark, NJ. 7 December
 2017 Scripps Institute of Oceanography, La Jolla, CA, 11 October
 2017 Aarhus University, Department of Bioscience, Aarhus, Denmark. 5 October
 2017 Philadelphia Botanical Club, Philadelphia PA, 23 March
 2016 Drexel University, Department of Biology, Philadelphia, PA, 26 February
 2015 Bringing Wetlands to Markets, WBNEER, Boston, MA. 13 May
 2014 Great Lakes *Phragmites* Collaborative, Webinar, 12 November
 2013 Swarthmore College, Environmental Studies, Swarthmore, PA. 21 May
 2013 Villanova University, Department of Biology, Villanova, PA. 4 April
 2012 Bryn Mawr College, Biology Department, Bryn Mawr, PA, 19 November
 2011 University of Laval, Montreal Botanical Garden, Montreal, Canada. 14 October
 2011 Rutgers University-Camden, Biology Department, Camden, NJ, 3 March
 2011 Sacred Heart University, Biology Department, Fairfield, CT. 15 February
 2010 Haverford College, Biology Department, Haverford, PA. 18 November
 2010 East Carolina University, Biology Department, Greenville, NC. 19 October
 2010 Monmouth University, Biology Department, Monmouth, NJ. 24 May
 2010 Patuxent Research Refuge, US. Fish & Wildlife Service, Laurel, MD. 25 February
 2009 Virginia *Phragmites* Manager's Workshop. VIMS, Gloucester, VA. 23 April
 2009 Smithsonian Environmental Research Center, Edgewater MD. 26 February
 2008 King's College, Department of Biology, Wilkes-Barre, PA. 2 December
 2008 Connecticut College, Botany Department, New London, CT. 6 February
 2007 Smithsonian Environmental Research Center, Edgewater MD. 27 September

TEACHING EXPERIENCE

Bryn Mawr College

- BIOLOGICAL EXPLORATION II, BIOL111
 - 2013, 2014, 2015, 2018, 2020, 2021
- INTRODUCTION TO ENVIRONMENTAL STUDIES, EVS 101
 - 2013
- ECOLOGY, BIOL 220
 - 2012, 2013, 2014, 2016, 2017, 2019, 2020, 2021
- COASTAL & MARINE ECOLOGY, BIOL 323
 - 2015, 2017, 2020
- GLOBAL CHANGE BIOLOGY, BIOL 332
 - 2014, 2017, 2018, 2021
- SCIENCE & SOCIETY SENIOR SEMINAR, BIOL 398
 - 2017

Additional Teaching Experiences

- VISITING INSTRUCTOR, Front Royal Smithsonian National Zoological Park. 2010-2012
- VISITING INSTRUCTOR, Sweet Briar College, 2011
- INSTRUCTOR - Department of Environmental Sciences, University of Virginia
 - ECOLOGY LAB, EVSC 320L
 - 2002, 2003, 2004, 2007

PROFESSIONAL DEVELOPMENT

CREATE WORKSHOP PARTICIPANT

- Selected as a participant to learn C.R.E.A.T.E. (Consider, Read, Elucidate the hypotheses, Analyze and interpret the data, and Think of the next Experiment) approaches to move beyond lecture-based format by using primary literature to integrate student understanding of content within the context of the research process. (www.teachcreate.org). June 2012.

FIRST IV, FACULTY INSTITUTES FOR REFORMING SCIENCE TEACHING

- National network and dissemination project to reform undergraduate science education through professional development of postdocs to design courses for a learner-centered classroom. Selected as a participant for 2011-2012 cohort. (www.msu.edu/~first4)

TOMORROW'S PROFESSOR TODAY PROGRAM, University of Virginia.

- Professional development program designed to facilitate the transition from student to academic professional focused on improving teaching, professional development, and adjustment to a university career. Program combines teaching critiques, professional workshops, and mentoring.

PROFESSIONAL MENTORING

Postdocs

- | | |
|--|-------------|
| • Dr. Joshua Caplan – Bryn Mawr College | 2013 – 2015 |
| • Dr. Blanca Bernal – SERC – Co-mentored | 2013 – 2015 |

Graduate Students – Co-Advised

- | | |
|--|-------------|
| • Michelle Furbeck – Clemson University | 2019 – 2021 |
| • Sean Lee – Villanova University | 2016 – 2019 |
| • Elizabeth Powel – Drexel University | 2016 – 2018 |
| • Caitlin Bauer – Villanova University | 2016 – 2018 |
| • Justin Meschter – University of Maryland | 2012 – 2015 |
| • Jessica Reid – Villanova University | 2011 – 2013 |

Primary Mentor for Undergraduate Students (39 students) - Bryn Mawr College

Tasnim Aziz (2013) †, Adelma Argueta-Roman (Haverford College – 2024), Sachi Bower (2025), Caitlin Bauer (2016) †, Maya Bhalla-Ladd (2019) †, Jocelyn Bravo (2020) †, Lyntana Brougham (2016) †, Sophie Drew (Haverford College – 2019) †, Eleanor Durfee (Haverford College -2014), Sarah Freda (2017), Emily Geoghegan (2017) †, Carlie Hansen (2020), Rachel Hager (2015) †, Shanina Halpert (2013) †, Elena Johnson (2016), Angela Kaurin (2020), Jennifer Laske (2018), Emma Lasky (2018), Francine Leech (2016), Skylar Livengood (2024), Emily Maroni (2015), Melissa McLaughlin (Haverford College – 2019), Poppy Northing (Haverford College - 2021), Meera Pattanayak (2025); Lili Randolph (2023), Esha Ray (2014), Bridget Reed (2020), Frances Romero (2021)†, Laura Silla (2014) †, Brandon Sickle (2018), Camila Silva (2019) †, Samantha Shaw (2020), Julia Smeltzer (Haverford College – 2023), Jwahir Sundai (2019), David Tian – (Swarthmore College - 2017), Logan Wallance Shepard (2020), Paige Weber (2018), Christine Wheaton (2013), Kass Wojcik (2022),
 † Students that went, or are currently in graduate school.

Student Mentor – Smithsonian Environmental Research Center – 2009-2012

- Lillian Aoki†, David Gonzalez, Matthew Seal†, & William Teasley†. † Students that went onto graduate school,

Student Mentor – University of Virginia –2003-2009

- Rachel Baker, Ben Curtis, Anh Doan, Tiffany Lee, Maria Takahashi†, John Snyder, Anne Stein, Sarah Wozniak.

SUPERVISED STUDENT THESES – BRYN MAWR COLLEGE

- **Kass Wojcik** – Class of 2022 - “Mapping Salt Marsh Vegetative Communities Using Unmanned Aerial Vehicles and Object Based Image Analysis”
- **Logan Wallace Shepard** – Class of 2021 - “Meta-analysis of ecosystem services provided by *Phragmites australis* compared to those of native plant species”
- **Carlie Hansen** - Class of 2021 - “Evaluating biotic resistance to *Phragmites australis* invasion in Atlantic coast wetlands”
- **Samantha Shaw** – Class of 2021 - “Stuck in a slump: How changes in genetic diversity alter marsh stability”
- **Jocelyn Bravo** – Class of 2021 - “Estimating marsh plant biomass using allometric models”
- **Angela Kaurin** - Bryn Mawr College – Class of 2020 - “ Reflections on the Life of *S. alterniflora*, or Spectra of a Salt Marsh”
- **Sophie Drew** – Haverford College – Class of 2019 - “Everything but the carbon sink: Cessation of N enrichment allows for rapid recovery of carbon cycling processes in a New England salt marsh”
- **Melissa McLaughlin** – Haverford College – Class of 2019 - “Effects of Invasive *Phragmites australis* on Soil Carbon Pools”
- **Maya Bhalla-Ladd** - Bryn Mawr College- Class of 2019 - “Engineering the Wetland of the Future”: Using open source electronics to investigate microclimates within *Phragmites australis* chambers”
- **Paige Weber** – Class of 2018 - “Cessation of nitrate addition rapidly restores carbon cycling in a New England salt marsh”
- **Jennifer Laske** – Class of 2018 - “Effects of *Phragmites australis* invasion and global change on decomposition in a brackish salt marsh”
- **Emily Geoghegan** - Bryn Mawr College – Class of 2017 - “Nutrient enrichment reverses carbon storage function in a New England salt marsh”
- **Sarah Freda** - Bryn Mawr College – Class of 2017 - “Warming Effects on Soil Enzyme Activity with Global Change and Plant Community in a Coastal Wetland”
- **Caitlin Bauer** - Bryn Mawr College – Class of 2016 - “Effects of nitrogen enrichment on plant functional traits and phenology in smooth cordgrass, *Spartina alterniflora*”
- **Francine Leech** - Bryn Mawr College – Class of 2016 - “Nitrogen eutrophication alters tall *Spartina alterniflora* carbon dynamics in North American Atlantic salt marshes”
- **Lyntana Brougham** – Bryn Mawr College – Class of 2016 - Carbon sequestration: The future of our marshes under N enrichment
- **Rachel Hager** - Bryn Mawr College – Class of 2015 - “Effects of species shifts on greenhouse gas emissions”
- **Emily Maroni** - Bryn Mawr College – Class of 2014 - “Effects of elevated CO₂ and N on leaf level traits”
- **Laura Silla** - Bryn Mawr College – Class of 2014 - “Escape, invade, evolve? An EICA experiment for *Phragmites australis*”

- **Eleanor Durfee** – Haverford College – Class of 2014 – “The battle for the Chesapeake Bay: Communications confusion between stakeholders”
- **Taznim Aziz** - Bryn Mawr College – Class of 2013 - “Studying the effects of nutrient enrichment on biomass allocation of belowground productivity in salt marshes of Plum Island, a 5 year experiment”
- **Christine Wheaton** - Bryn Mawr College – Class of 2013 – “Plant construction costs of native and introduced lineages of *Phragmites australis*”
- **Shanina Halbert** – Haverford College – Class of 2013 – “Salt marsh killifish assemblages in Louisiana: patterns of abundances, species composition and size distribution

SERVICE – BRYN MAWR COLLEGE COMMITTEE WORK

- Biology Department Chair 2021-Present
- Search Chair – Visiting Assistant Professor in Ecology Spring 2022
- Sustainability Leadership Group 2021/2022
- Department Collections working group 2021/2022
- Data Sciences Steering Committee 2020/2021
- Undergraduate Admissions Committee 2020/2021
- TED style talk at Family & Friends weekend – November 2021
- Faculty Welfare Committee – 2020/2021
- Data Science Steering Committee – 2020/2021
- Data Sciences Support Working Group – 2020/2021
- Sponsored Research Officer Search Committee – Spring 2020
- Biology Department Search Committee, Genomicist - Fall 2020
- Data Science Steering Committee – 2019/2020
- Faculty Welfare Committee – 2019/2020
- Biology Department Search Committee, Immunologist - Fall 2019
- TriCo Orientation panelist – Swarthmore College - Fall 2019
- Faculty Welfare Committee – 2018/2019
- Biology Department Seminar Series organizer – 2017/2018
- TriCo Orientation panelist – Swarthmore College - Fall 2018
- Co-Convener of the Junior Faculty – 2017/2018
- Co-Convener of the Junior Faculty – 2016/2017
- Biology Department Seminar Series organizer 2016/2017
- Environmental Studies Steering Committee Member – 2016/2017
- TED Talk– Parent’s Weekend – Oct 21, 2016

- TLI-Panelist to New Faculty – October 2016
- Themed Programing committee - 2015/2016
- K.I.M. Talk – Alumnae Weekend – May 30, 2015
- Mellon Tri-Co – Global Change Research Symposium 2015
- Co-Convener of the Junior Faculty –2014/2015
- Biology Department Seminar Series organizer 2014/2015
- Tri-Co Environmental Studies Steering Committee of Nine 2014/2015
- Environmental Studies Steering Committee Member – 2014/2015
- TLI-Panelist to New Faculty – October 2014
- Faculty panelist for new faculty orientation – August 2014
- Mellon Tri-Co Faculty Forum Grant- Tri-Co Junior Faculty Meeting Organizer – 2014
- Global Change Research Symposium @ Bryn Mawr College 2014
- Co-Convener of the Junior Faculty –2013/2014
- Tri-Co Environmental Studies Steering Committee of Nine –2013/2014
- Mellon Tri-Co Faculty Forum Grant – Plant Biology in the Tri-Co 2013
- Mellon Tri-Co Faculty Forum Grant – Tri-Co Junior Faculty Meeting Organizer – 2013
- Biology Department Search Committee, Computational Ecologist - Fall 2013
- Biology Department Search Committee, Laboratory Lecturer - Spring 2013
- Chair of Search Committee for Bucher-Jackson Fellow in Environmental Studies and Biology - Spring 2013
- Environmental Studies Steering Committee Member – 2012/2013
- Biology Department Search Committee, Genomics search – Fall 2012

CURRICULAR COLLEGE SERVICE – 360° COURSE CLUSTERS TAUGHT

- Science, Truth, and Democracy 360° – Fall 2020
 - Cluster in coordination with Collin Rice (Philosophy)
- Coasts in Transition 360° – Spring 2020
 - Cluster in Coordination with Pedro Marenco (Geology)
- Science, Truth, & Democracy 360° – Spring 2018
 - Cluster in coordination with Collin Rice (Philosophy) & Joel Schlosser (Political Science)
- Coasts in Transition 360° – Spring 2017
 - Cluster in Coordination with Pedro Marenco (Geology)
- Coasts in Transition 360° – Spring 2015
 - Cluster in Coordination with Don Barber (Geology)

SERVICE TO BRYN MAWR COLLEGE COMMUNITY

- **Harriton Association** –Member of the Board: 2021-Present
- **Master Plan Steering Committee Member – Lower Merion Township**
 - The Preserve at Harriton, Bryn Mawr, PA: 2020 – Present

PROFESSIONAL SERVICE

ASSOCIATE EDITOR – ESTUARIES AND COASTS 2022- PRESENT

OUTGOING CHAIR - GLOBAL CHANGE ECOLOGY SECTION OF THE SOCIETY OF WETLAND - 2016

CHAIR- GLOBAL CHANGE ECOLOGY SECTION OF THE SOCIETY OF WETLAND SCIENTISTS - 2015

SCIENTIFIC PROGRAM COMMITTEE

- **WETPOL 2019:** International Wetland Pollutant Dynamics and Control Conference. Aarhus, Denmark.

SYMPOSIUM & WORKSHOP ORGANIZER

- **Integrating Evolutionary Processes into the LTER Framework**, Long Term Ecology Research All Scientist Meeting, 19-23 September, Pacific Grove, CA.
- **Rethinking the common reed grass – *Phragmites australis***, NOAA Science Seminar Webinar Series 2021-2022 (Series of 7 organized webinars).
- **Global change influences on blue carbon pools and processes**, Society of Wetland Scientists, June, 2017, San Juan, Puerto Rico.
- ***Phragmites australis*: A model organism for understanding genetic- to ecosystem-level responses in a rapidly changing world**, Society of Wetland Scientists, June, 2015, Providence, RI.
 - *NOTE: 4 day Phragmites symposium with 42 invited talks*
- **Nutrient Pollution Jeopardize Tidal Wetland Viability? A controversy revisited**, Society of Wetland Scientists, May, 2014, Portland, OR.
- **Coastal and Estuarine Carbon Cycling**, Biennial Meeting of the Coastal & Estuarine Research Federation, November, 2013, San Diego, CA.
- **Human impacts on the health and survival of tidal ecosystems**, Biennial Meeting of the Coastal & Estuarine Research Federation, November, 2011, Daytona Beach, FL.
- ***Phragmites australis* – a European and North American Comparison**, Society of Wetland Scientists, July 2011.

REGIONAL SYMPOSIUM ORGANIZER

- **7th Annual Global Change Research Symposium** – Co-Organizer - 2 April, 2020, Smithsonian Environmental Research Center – cancelled due to pandemic
- **6th Annual Global Change Research Symposium** – Co-Organizer - 29 March, 2019, Smithsonian Environmental Research Center
- **5th Annual Global Change Research Symposium** – Co-Organizer - 19 April, 2018, Villanova University

- *4th Annual Global Change Research Symposium* – Co-Organizer - 24 March, 2017, Smithsonian Environmental Research Center
- *3rd Annual Global Change Research Symposium* – Lead Organizer – 29 March, 2016, Bryn Mawr, PA.
- *2nd Annual Global Change Research Symposium* – Lead Organizer – 12 February, 2015, Bryn Mawr, PA.
- *1st Annual Global Change Research Symposium* – Co-Organizer – 6 February, 2014, Smithsonian Environmental Research Center

OTHER SERVICE

PEER REVIEWER FOR THE FOLLOWING JOURNALS

AoB PLANTS, Acta Oecologica, American Journal of Botany, Aquatic Botany, Archives of Agronomy and Soil Science, Bioscience, Biogeosciences Discussions, Biological Invasions, Diversity and Distributions, Ecology, Ecological Applications, Ecology and Evolution, Ecological Engineering, Ecopshere, Ecosystems, Ecosystem Health and Sustainability, Estuaries & Coasts, Environmental Research, Environment International, Estuarine Coastal & Shelf Science, Functional Ecology, Geophysical Research letters, Global Change Biology, Invasive Plant Science & Management, Journal of Applied Ecology, Journal of Ecology, Journal of Plant Ecology, Hydrobiologia, Limnology and Oceanography, New Phytologist, Oecologia, Pedosphere, PLOS One, Plant Ecology, Restoration Ecology, Scientific Reports, Science of the Total Environment, Weed Research, Western North American Naturalist, & Wetlands

ASSOCIATE EDITOR

- Estuaries & Coasts: 2022-Present

EXTERNAL REVIEWER

- NSF-DEB-Ecosystem Science Cluster
- NSF-DEB-Population and Community Ecology Cluster
- DFG (Deutsche Forschungsgemeinschaft) – German Research Funding Organization
- Ohio Water Resources Center
- California Sea Grant
- New Jersey Sea Grant
- Woods Hole Sea Grant

PROFESSIONAL MEMBERSHIPS

- Atlantic Estuarine Research Society
- Ecological Society of America
- Coastal and Estuarine Research Federation
- Society of Wetland Scientists

HONORARY MEMBERSHIPS

- Phi Beta Kappa
- Alpha Sigma Nu
- Pi Epsilon