

# Kristin Nielsen, Ph.D.

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## EDUCATION

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- 2018 **Postdoctoral Research Fellow** (Aquatic Toxicology)  
University of North Texas; Denton, TX
- 2016 **Doctor of Philosophy** (Biology)  
University of North Texas; Denton, TX  
*Dissertation Title: Maternal transfer of dietary methylmercury and implications for embryotoxicity in *Pimephales promelas**
- 2005 **Bachelor of Arts** (Biology, English)  
Texas A&M University; College Station, TX

## PROFESSIONAL EXPERIENCE

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- 2020 – Present **Assistant Professor**, University of Texas at Austin, Department of Marine Science; Port Aransas, Texas  
*Current Research:* Dr. Nielsen is an aquatic toxicologist who uses a systems approach to investigate the developmental and reproductive toxicity of anthropogenic stressors to both freshwater and marine organisms. She is particularly interested in linking contaminant-mediated molecular initiating events to higher level adverse effects in fish models, from both an ecotoxicological and translational perspective. She has specific expertise in the toxicological effects of per- and polyfluoroalkyl substances (PFAS), heavy metals, select pharmaceuticals and their degradation products, as well as the photo-induced toxicity of oil spills to early life stage aquatic organisms. Dr. Nielsen also builds on her experience as a professional ecological and human health risk assessor in a research context, specifically as it pertains to subsistence and sportfishing resources. As part of this work, she develops multiple-lines-of-evidence risk assessment frameworks that consider the role of qualitative determinants of risk (e.g., socio-economic, demographic, traditional, and location-specific environmental factors).  
*Courses Taught:* Marine Environmental Science (MNS 354Q; UT), Aquatic Toxicology & Risk Assessment (MNS 193; UT), Aquatic Toxicology (BIOL 4380 & 5380; UNT)
- 2019 **Ecological/Human Health Risk Assessor & Toxicologist**, Geosyntec Consultants; Anchorage, AK
- 2018 **State Toxicologist & Environmental Public Health Program Manager**, Alaska Division of Public Health; Anchorage, AK
- 2016 **Postdoctoral Research Fellow & Adjunct Faculty**, University of North Texas; Denton, TX  
*Courses Taught:* Fundamentals of Aquatic Toxicology (BIOL 4380)
- 2008 **Department Chair**, Grand Prairie Independent School District; Grand Prairie, TX
- 2006 **Science Teacher/Coach**, Pearsall Independent School District; Pearsall, TX

## FUNDING

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- 2024 – 2027 **Matagorda Bay Mitigation Trust** (Co-PI) \$496,099  
*Evaluating Ecological and Human Health Risks of PFAS in Matagorda Bay*
- 2024 – 2025 **Texas Gulf Coast Research Center** (PI) \$100,000  
*Characterizing and Pinpointing Sources of PFAS Contamination in Texas Bays*

- 2023 – 2028 **National Oceanic and Atmospheric Administration (Co-PI)** \$1,908,340  
*Developing an Ecosystem-based Conservation framework for Oyster Reefs Across Texas Estuaries*
- 2023 – 2026 **Matagorda Bay Mitigation Trust (PI)** \$396,691  
*Reproductive and developmental toxicity of “Forever Chemicals” to Matagorda Bay’s prey fishes*
- 2022 – 2024 **National Academies of Sciences, Engineering and Medicine (PI)** \$76,000  
*Gulf Research Program 2022 Early-Career Research Fellowship*
- 2022 – 2024 **Coastal Bend Bays and Estuaries Program & Aransas County Navigation District (Co-PI)** \$58,000  
*Evaluating Ecological & Human Health Risks Related to Potential Contamination of Port Bay*
- 2022 – 2025 **Matagorda Bay Mitigation Trust (PI)** \$399,965; 2022 – 2025  
*Assessing the threat of tire leachate and urban runoff on Matagorda Bay fish populations*
- 2021 – 2023 **Stengl-Weyer Endowment (PI)** \$87,598  
*(Completed) Danger Downstream? Investigating indirect mechanisms of urban runoff toxicity using a whole ecosystem approach*
- 2019 – 2021 **Health Canada (Co-PI)** \$148,000  
*(Completed) Chemical Management Plan: Investigating Metformin’s Environmental Fate and Effects*
- 2018 – 2019 **Centers for Disease Control & Prevention (PI)** \$404,467  
*(Completed) ATSDR Partnership to Promote Local Efforts to Reduce Environmental Exposure*
- 2018 – 2019 **Centers for Disease Control & Prevention (PI)** \$263,278  
*(Completed) Childhood Lead Poisoning Prevention*
- In Review* **Department of Defense, Environmental Security Technology Certification Program (PI)** \$938,100  
*Developing a quantitative understanding of the ecotoxicity of complex PFAS mixtures to estuarine sportfish*
- In Review* **National Academies of Sciences, Engineering and Medicine (PI)** \$20,000,000  
*(Gulf Futures Challenge) Mitigating intensifying contaminant exposure through seafood: The ecosystem-health-climate connection.*
- In Review* **US Environmental Protection Agency (PI)** \$ 748,856  
*Forensic Chemistry to Identify PFAS Sources in a Data-Limited Estuary*
- In Review* **National Institutes of Health/NIEHS (PI)** \$3,527,471  
*(R01) Export, bioavailability & socio-environmental implications of mercury released by rapidly retreating coastal glaciers*

## **HONORS, MEMBERSHIPS & AWARDS**

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- 2022 – Present **Affiliated Investigator, Beaufort Lagoon Ecosystems Long Term Ecological Research Program**
- 2022 – 2024 **Early Career Fellow, National Academies of Sciences, Engineering and Medicine**
- 2022 – Present **Center for Molecular Carcinogenesis & Toxicology, College of Pharmacy, University of Texas**
- 2022 – Present **Interdisciplinary Environmental Chemicals Working Group, Center for Health and Environment: Education and Research, University of Texas**
- 2019 – 2022 **Affiliate Faculty, Alaska Pacific University**
- 2018 **Presidential Citation Award Recipient, SETAC North America**
- 2015 **Outstanding Teaching Award, Department of Biological Sciences, University of North Texas**
- 2014 – 2016 **Beth Baird Scholarship, University of North Texas**
- 2012 – Present **SETAC North America, Member**

## **SERVICE TO THE FIELD**

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## ***Departmental***

2023- Present Faculty Search Committee (three open rank positions)

2023- Present Student Awards & Endowment Committee

2023- Present Seminar Committee

2021 – Present Abell Chair Faculty Recruitment Committee, Marine Science Institute, University of Texas

2021 – 2022 Graduate Record Examination Waiver Committee, Department of Marine Science, University of Texas

2021 – Present Marine Science Institute Director Search Committee, College of Natural Science, University of Texas

2020 – Present Graduate Studies Committee

2020 – Present Analytical Core Committee, Department of Marine Science, University of Texas

2020 – Present Institutional Animal Care and Use Committee, Marine Science Institute, University of Texas

2020 – Present Center for Coastal Ocean Science Design Committee, Marine Science Institute, University of Texas

## ***Scientific Community***

### *Boards & Committees*

Editorial Board, Environmental Toxicology & Chemistry (Term: 2023 – 2026)

Editorial Board, Frontiers in Marine Science (2022 – Present)

Secretary, South-Central SETAC (2022 – Present)

Executive Board, South-Central SETAC (2021 – Present)

Development Committee, SETAC North America (2018-2020)

Early Career Committee (ECC), SETAC North America (2018 – 2020)

ECC Outreach & Media Sub-Committee Chair, SETAC North America (2018 – 2020)

Environmental Public Health Program Development Committee, Alaska Pacific University (2018 – 2019)

### *Conference Organization & Leadership*

Session Chair, SETAC North America 45th Annual Meeting, Fort Worth, Texas (2024)

Steering Committee Member; South-Central SETAC Annual Meeting; Kerrville, TX (2024)

Steering Committee Member; International Conference on Environmental Pollution, Restoration, and Management; Quy Nhon, Vietnam (2023 – 2024)

Session Chair, SETAC Europe 33<sup>rd</sup> Annual Meeting, Dublin, Ireland (2023)

Steering Committee Member; South-Central SETAC Annual Meeting; Denton, TX (2023)

Session Chair, American Physiological Society Intersociety Meeting in Comparative Physiology, San Diego, CA (2022)

National Academies and Alaska Sea Grant Oil Spill Science and Disaster Preparedness Workshop Steering Committee; Anchorage, AK (2019)

SETAC North America Early Career Scientist Planning Committee; Sacramento, CA (2018)

Session Chair, SETAC North America 39th Annual Meeting, Sacramento, CA (2018)

Session Chair, SETAC North America 36th Annual Meeting, Salt Lake City, UT (2015)

### *Peer Reviewing Activities*

Oak Ridge Associated Universities (ORAU) Ralph E. Powe Junior Faculty Award (*Proposal Review, 2025*)

NASEM, Gulf Futures Challenge (*Proposal Review, 2024*)

Canada Tri-agency Institutional Programs Secretariat, New Frontiers in Research Fund (*Proposal Review, 2024*)

Human & Environmental Risk Assessment: An International Journal (*Article Review, 2023 – Present*)

Texas Comprehensive Research Fund (*Proposal Review, 2022*)

NIH/NIEHS P42 Superfund Hazardous Substance Research and Training Program (*Proposal Review, 2021, 2023*)

NSF Major Research Instrumentation Program (*Proposal Review, 2021*)

Reviewer for British Journal of Nutrition (*Article Review, 2021 – Present*)

Reviewer for Environmental Science & Technology (*Article Review, 2016 – Present*)

Reviewer for Environmental Science & Technology Letters (*Article Review, 2016 – Present*)

Reviewer for Environmental Toxicology & Chemistry (*Article Review, 2016 – Present*)

Reviewer for ACS Omega (*Article Review, 2017 – Present*)

Reviewer for Ecotoxicology (*Article Review, 2017 – Present*)

Reviewer for Aquatic Toxicology (*Article Review, 2017 – Present*)

Reviewer for Environmental Pollution (*Article Review, 2017 – Present*)

Reviewer for Journal of Hazardous Materials (*Article Review, 2017 – Present*)

### **JOURNAL ARTICLES** (\* née Bridges)

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1. Blandford, N; Palace, V; Rodríguez-Gil, J; Timlick, L; Stanley, M; Frank, R; Campbell, S; Rudy, M; Marshall, S; Wynia, A; Clark, T; Cunningham, J; Alae, M; Parrott, J; Kidd, K; Stevack, K; Sabourin, L; Renaud, J; Sumarah, M; **Nielsen, K**; McMaster, M; Ussery, E. (2024) Community-level Responses and Environmental Fate of Metformin in Freshwater In-Lake Mesocosms. *Science of the Total Environment*. <https://dx.doi.org/10.2139/ssrn.4872592>
2. **Nielsen, K**; Schlenk, D; Esbaugh, A; Mondon, J (2024) Potential Environmental Impacts of Coastal Desalination Intake Structures: Urgent Data Gaps and Policy Needs. *Environmental Science & Technology Letters*. <https://doi.org/10.1021/acs.estlett.4c00228>
3. Ussery, E; McMaster, M; Palace, v; Parrott, J; Blandford, N; Frank, R; Kidd, K; Birceanu, O; Wilson, J; Alae, M; Cunningham, J; Wynia, A; Clark, T; Campbell, S; Timlick, L; Michaleski, S; Marshall, S; **Nielsen, K** (2024) Effects of metformin on wild fathead minnows (*Pimephales promelas*) using in-lake mesocosms in a boreal lake ecosystem. *Science of the Total Environment*. <https://doi.org/10.1016/j.scitotenv.2024.172457>
4. Ackerly, K; Roark, K; Lu, K; Esbaugh, A; Liu, Z; **Nielsen, K**. (2024) Acute Toxicity Testing of 6PPD-quinone on the Estuarine-Dependent Sport Fish, *Sciaenops ocellatus*. *Ecotoxicology*. <https://doi.org/10.1007/s10646-024-02755-x>
5. Blewett, T; Ackerly, K; Schlenker, L; Martin, S; **Nielsen, K**. (2024) Implications of biotic factors for toxicity testing in laboratory studies. *Science of The Total Environment* 908, 168220. <https://doi.org/10.1016/j.scitotenv.2023.168220>.
6. Ackerly, K; Roark, K; **Nielsen, K** (2023) Response to: Conway et al. (2023), Red Drum Salinity Tolerance: Comments on Ackerly et al. "Short-Term Salinity Stress During Early Development Impacts the Growth and Survival of Red Drum (*Sciaenops ocellatus*)."*Estuaries & Coasts*: <https://doi.org/10.1007/s12237-023-01305-8>
7. Ackerly, K; Roark, K; **Nielsen, K**. (2023) Short term salinity stress during early development impacts the growth and survival of red drum (*Sciaenops ocellatus*). *Estuaries & Coasts*; <https://doi.org/10.1007/s12237-022-01124-3>
8. **Nielsen, K**; DeCamp, L; Birgisson, M; Palace, V; Kidd, K; Parrott, J; McMaster, M; Ussery, E. (2022) Comparative effects of embryonic metformin exposure on wild, and laboratory-spawned fathead minnow (*Pimephales promelas*) populations. *Environmental Science & Technology*: 56 (14), 10193-10203; <https://doi.org/10.1021/acs.est.2c01079>
9. Ussery, E; **Nielsen, K**; Simmons, D; Pandelides, Z; Mansfield, C; Holdway, D. (2021) An 'omics approach to investigate the growth effects of environmentally relevant concentrations of guanylurea exposure on

Japanese medaka (*Oryzias latipes*), *Aquatic Toxicology*, 232, 105761;  
<https://doi.org/10.1016/j.aquatox.2021.105761>

10. **Nielsen, K\***; Furin C; Gerlach B. (2020) Subsistence fish consumption in rural Alaska: Using regional monitoring data to evaluate risk and bioavailability of dietary methylmercury. *Science of the Total Environment*: 736, 139676; <https://doi.org/10.1016/j.scitotenv.2020.139676>
11. **Nielsen, K**; Alloy MM; Damaré LM; Palmer I; Forth HP; Morris JM; Stoeckel J; Roberts, AP. (2020) Planktonic fiddler crab (*Uca longisignalis*) are susceptible to photo-induced toxicity following developmental exposure to oiled terrestrial habitat. *Environmental Science & Technology*: 54 (10), 6254-6261; <https://doi.org/10.1021/acs.est.0c00215>
12. Ussery, E., **Nielsen, K.**, Pandelides, Z., Kirkwood, A.E., Guchardi, J. and Holdway, D. (2019), Developmental and Full-Life Cycle Exposures to Guanylyurea and Guanylyurea–Metformin Mixtures Results in Adverse Effects on Japanese Medaka (*Oryzias latipes*). *Environ Toxicol Chem*, 38: 1023-1028. <https://doi.org/10.1002/etc.4403>
13. **Nielsen, K\***; Curran TE; Magnuson JT; Barker A; Baxter D; Venables BJ. (2019) Alterations to the vision-associated transcriptome of zebrafish (*Danio rerio*) following developmental norethindrone exposure. *Environmental Toxicology & Pharmacology*: 69, 137-142; <https://doi.org/10.1016/j.etap.2019.04.011>
14. **Nielsen, K**; Lay CR; Alloy MM; Gielazyn ML; Morris JM; Forth HP; Takeshita R; Travers C; Oris JT; Roberts AP (2018). Estimating incident ultraviolet (UV) radiation exposure in the Northern Gulf of Mexico during the Deepwater Horizon Oil Spill. *Environmental Toxicology & Chemistry*: 37(6), 1679-1687; <https://doi.org/10.1002/etc.4119>
15. **Nielsen, K**; Krasnec M; Magnuson JT; Morris JM; Gielazyn ML; Chavez R; Roberts AP. (2018) Influence of UV and PAH exposure duration on survival of red drum (*Sciaenops ocellatus*) larvae. *Environmental Toxicology & Chemistry*: 37(9), 2372- 2379; <https://doi.org/10.1002/etc.4183>
16. Damaré LM; **Nielsen, K \***; Forth HP; Lay CR; Morris JM; Stoeckel J; Curran TE; Soulen BK; Alloy MM; Roberts AP. (2018) Photo- induced toxicity in early lifestage fiddler crab (*Uca longisignalis*) following exposure to Deepwater Horizon spill oil. *Ecotoxicology*: 27(4), 440-447; <https://doi.org/10.1007/s10646-018-1908-6>
17. **Nielsen, K.**, Venables, B. and Roberts, A. (2017) Effects of dietary methylmercury on the dopaminergic system of adult fathead minnows and their offspring. *Environmental Toxicology & Chemistry*, 36: 1077-1084; <https://doi.org/10.1002/etc.3630>
18. Alloy MM; Garner TG; **Nielsen, K**; Mansfield CM; Carney M; Forth HP; Krasnec M; Lay CR; Takeshita R; Morris JM; Oris JT; Roberts AP. (2017) Co-exposure to sunlight enhances the toxicity of naturally weathered Deepwater Horizon oil to early lifestage red drum (*Sciaenops ocellatus*) and speckled seatrout (*Cynoscion nebulosus*). *Environmental Toxicology & Chemistry*: 36(3), 780-785; <https://doi.org/10.1002/etc.3640>
19. **Nielsen, K**; Soulen B; Overturf C; Drevnick P; Roberts A. (2016) Embryotoxicity of maternally transferred methylmercury to *Pimephales promelas*. *Environmental Toxicology & Chemistry*: 35(6), 1436-41; <https://doi.org/10.1002/etc.3282>
20. Barst BD; **Nielsen, K**; Korbas M; Roberts AP; Van Kirk K; McNeel K; Drevnick, PE. (2015) The role of melano-macrophage aggregates in the storage of mercury and other metals: An example from yelloweye rockfish (*Sebastes ruberrimus*). *Environmental Toxicology & Chemistry*: 34(8), 1918-1925; <https://doi.org/10.1002/etc.3009>

#### Additional Papers in Review or Preparation

21. Carter, LJ, Brand, JA; Brooks, BW; Villar, MH; Nielsen, KI Stanley, DA; Bertram, MG (In Preparation). Understanding the importance of ecological niches to pharmaceutical transfer in agro-ecosystems. For submission to *Environmental Science & Technology*.

22. Barst, BD; Ussery, EJ; Porter, D; Capistrant-Fossa, KA; Trifari, M; Iken, K; Nielsen, K (In Preparation). Glacial coverage corresponds with bioaccumulation of mercury in Pacific Blue mussels (*Mytilus trossulus*). For submission to Environmental Science & Technology.
23. Roark, KJ; Ackerly, KL; Nielsen, K (In Preparation). In the Context of Estuaries: Multi-stressor effects of hypersalinity, temperature, and per- and polyfluoroalkyl substances (PFAS) on early life stage red drum. For submission to Environmental Science & Technology.
24. Ackerly, KL; Roark, KJ; Nielsen, K (In Preparation). Comparative effects of long- and short-chain per- and polyfluoroalkyl substances (PFAS) on early life stage red drum (*Sciaenops ocellatus*). For submission to Environmental Toxicology & Chemistry.
25. Ackerly, KL; Roark, KJ; Nielsen, K (In Preparation). Mixture effects of metformin and guanylurea on the model fish species, *Pimephales promelas*. For submission to Environmental Toxicology & Chemistry.

## **TECHNICAL REPORTS & WHITE PAPERS**

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1. Lu, K; Lloyd, J; Xue, J; Tunnell, J; **Nielsen, K**; Liu, Z. (2024) Evaluating the chemical levels in soil, groundwater, bay water, bay sediment, and oyster tissue in the Port Bay region. Coastal Bend Bays and Estuaries Program.
2. Conder, J; Arblaster, J; **Nielsen, K.\*** (2022) AFFF PFAS Terrestrial Ecological Risk Model Tool (SERDP Project ER18-1614), Department of Defense Technical Information Center; <https://apps.dtic.mil/sti/citations/AD1160988>
3. **Nielsen, K.** Proposed Harbor Island Seawater Reverse Osmosis Desalination Facility: A prospective Evaluation of Ecotoxicological Risk (2021) University of Texas at Austin Texas ScholarWorks: 2021 – 03; <http://dx.doi.org/10.26153/tsw/12029>\*
4. Conder, J; Arblaster, J; **Nielsen, K.\*** (2021) AFFF PFAS Aquatic Ecological Risk Model Tool (SERDP Project ER18-1614), Department of Defense Technical Information Center; <https://apps.dtic.mil/sti/citations/AD1160985>
5. **Nielsen, K.\*** (2019) Letter Health Consult: PFAS Exposure Assessment, Pioneer Farm and Alaskan Farm, North Pole, Alaska; State of Alaska Department of Health and Social Services, Anchorage, AK \*
6. Lay CR; Morris JM; Takeshita R; Forth HP; Travers CL; Roberts AP; Alloy MM; Garner TR; **Nielsen, K.\*** (2015) Incident Ultraviolet (UV) Radiation and Extinction Coefficients in the Northern Gulf of Mexico During the Deepwater Horizon Oil Spill. (TOX\_TR.06). Boulder, CO. DWH Toxicity NRDA Technical Working Group Report. <https://www.doi.gov/deepwaterhorizon/adminrecord>

## **PRESENTATIONS**

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### **Conference Presentations** († presenting author, \* invited platform)

2024	SETAC Europe, 34 <sup>th</sup> Annual Meeting (Seville, Spain) Developmental Effects of Legacy and Novel Type 2 Diabetes Therapeutics to Embryo-Larval Red Drum ( <i>Sciaenops ocellatus</i> ).
2023	SETAC North America, 44th Annual Meeting (Louisville, KY) Implications of Climate Change for Dietary Mercury Exposure in High Latitude Subsistence Communities †
2023	SETAC Europe, 33 <sup>rd</sup> Annual Meeting (Dublin, Ireland) Implications of Climate Change for Dietary Contaminant Exposure in Alaskan Subsistence Communities †
2022	American Physiological Society (San Diego, CA) Using red drum as an indicator of the combined effects of toxicant exposure and climate change in estuarine systems †*
2022	Center for Molecular Toxicology and Carcinogenesis Annual Symposium (Austin, TX) Developmental effects of understudied PFAS on estuarine-dependent fish †*
2022	International Congress on the Biology of Fish (Montpellier, France) Comparative effects of developmental metformin exposure on embryo-larval fishes †
2021	SETAC North America, 42nd Annual Meeting (Virtual) Metformin exposure impacts development of

wild-spawned embryo-larval fish †\*

- 2020 Emerging Contaminants Summit (Westminster, CO) Assessing the Ecological Risks of Per- and Polyfluoroalkyl Substances (PFAS) at Aqueous Film Forming Foam Sites †\*
- 2020 Geosyntec Global PFAS Technical Webinar (Virtual) PFAS Toxicology and Risk Assessment: State of the Science †\*
- 2019 SETAC North America, 40th Annual Meeting (Toronto; ON) Subsistence Fish Consumption in Alaska: Using Regional Monitoring Data to Evaluate Risk and Bioavailability of Dietary Methylmercury †\*
- 2018 SETAC North America, 39th Annual Meeting (Sacramento, CA) Alterations to the intestinal microbiome and metabolome of *Pimephales promelas* and *Mus musculus* following exposure to dietary methylmercury †\*
- 2018 SETAC Europe, 28th Annual Meeting (Rome, Italy) Photoperiod, exposure duration, and latent mortality: Photo-induced toxicity effects in aquatic organisms †
- 2018 SETAC Europe, 28th Annual Meeting (Rome, Italy) Alterations to the intestinal microbiome and metabolome of *Pimephales promelas* and *Mus musculus* following exposure to dietary MeHg †
- 2018 Gulf of Mexico Oil Spill and Ecosystem Science Conference (New Orleans, LA) Photoperiod, exposure duration, and latent mortality: Photo-induced toxicity effects in aquatic organisms †
- 2017 SETAC North America 38th Annual Meeting (Minneapolis, MN) Photoperiod, exposure duration, and latent mortality: Photo-induced toxicity effects in aquatic organisms †
- 2017 International Conference on Environmental Pollution, Restoration, and Management (Quy Nhon, Vietnam) The photo-induced toxicity of Australian northwest shelf crude oil to yellowtail kingfish (*Seriola lalandi*) and black bream (*Acanthopagrus butcheri*) †
- 2017 International Conference on Environmental Pollution, Restoration, and Management (Quy Nhon, Vietnam) Effects of dietary methylmercury on the dopaminergic system in adult fathead minnows and their offspring †
- 2016 SETAC North America 37th Annual Meeting (Orlando, FL) Effects of dietary methylmercury on the dopaminergic system in adult fathead minnows and their offspring †
- 2015 SETAC North America 36th Annual Meeting (Salt Lake City, UT) Embryo-toxicity of maternally transferred methylmercury to fathead minnows (*Pimephales promelas*) †
- 2014 SETAC South Central Regional Meeting (San Marcos, TX) Effects of maternally derived methylmercury on fathead minnow (*Pimephales promelas*) reproductive metrics and embryonic development †
- 2013 SETAC North America 34th Annual Meeting (Nashville, TN) Effects of maternally derived methylmercury on fathead minnow (*Pimephales promelas*) reproductive metrics and embryonic development †

### ***Invited Institutional Seminars***

- 2023 University of North Texas, Department of Biological Sciences (Denton, TX) High Stakes Risk Assessments in a Changing World: Approaches to Reduce Uncertainty in Ecotoxicology †
- 2022 Baylor University, Department of Environmental Science (Waco, TX) Comparative effects of metformin exposure on laboratory and wild spawned fishes †
- 2022 University of Sydney, ARC Centre in Data Analytics for Resources and Environments (Sydney, Australia) Potential ecological and human health risks of PFAS contamination in Australia †
- 2022 University of Alaska Fairbanks, Water and Environmental Research Center (Fairbanks, AK) Potential ecological and human health risks of PFAS contamination in Alaska †
- 2022 University of Texas at Austin, College of Pharmacy (Austin, TX) Comparative effects of developmental metformin exposure on wild and laboratory-cultured fish populations †

- 2020 Alaska Pacific University, Environmental Public Health Program (Anchorage, AK) The Role of Toxicology and Risk Assessment in Environmental Public Health Practice †
- 2020 University of Georgia, College of Forestry (Athens, GA) Ecotoxicological Effects of Developmental Exposure to Ubiquitous Aquatic Contaminants Across Levels of Biological Organization †
- 2020 University of North Carolina at Wilmington, Center for Marine Science (Wilmington, NC) Ecotoxicological Effects of Developmental Exposure to Ubiquitous Aquatic Contaminants Across Levels of Biological Organization †
- 2019 Alaska Pacific University, Environmental Public Health Program (Anchorage, AK) Toxicology and Risk Assessment: Alaska Edition †
- 2019 University of Alaska Southeast, Department of Biology and Marine Biology (Juneau, AK) Photo-induced Toxicity of Oil Spills to Early Life Stage Marine Biota †
- 2019 Alaska Pacific University, Environmental Health Program (Anchorage, AK) Risk Assessment and Communication in Environmental Justice Communities in Rural Alaska †
- 2017 Marshall University, Department of Biological Sciences (Huntington, WV). Effects of maternally transferred methylmercury on development of early life stage fish †

### *Public Meetings, Community Presentations, and Select Media Contributions*

- 2024 Canadian Broadcasting Company (TV) Nielsen Lab research featured in [“The impact of microplastics on freshwater bodies.”](#)
- 2024 Community of Kaktovik (Kaktovik, AK) Mercury in fish...Do you need to be concerned?
- 2023 Marine Science Advisory Council Meeting (Port Aransas, TX) Vulnerable estuaries: High stakes risk assessments in a changing world †
- 2023 UTMSI Public Lecture Series (Port Aransas, TX) Unintended consequences of diabetes medications: how fish are impacted by metformin †
- 2023 The Wall Street Journal (Print) [They Bought \\$35 Period Underwear From Thinx. Now They're Uneasy](#)
- 2022 Kiii Channel 3 News (TV) [Area researchers conduct study to see if chemicals from tires are polluting Coastal Bend waters](#)
- 2021 KRIS6 News (TV) [“Port Aransas Conservancy fighting to block Port of Corpus Christi desalination plant](#)
- 2021 UTMSI Science Festival Public Lecture Series (Virtual) [Examining Risks in Perspective: Subsistence Fishing](#) †
- 2020 Geosyntec PFAS Technical On-Demand Webinars (2020; Webinar) [PFAS Toxicology and Risk Assessment: State of the Science](#) †
- 2020 Geosyntec Instructional Webinar (2020; Webinar) [Assessing the Ecological Risks of PFAS at Aqueous Film Forming Foam Sites](#) †
- 2019 Alaska Tribal Consortium on Environmental Management (Anchorage, AK) An Overview of PFAS Concerns for Communities in Rural Alaska †
- 2019 NPR Alaska Public Media: Talk of Alaska (Radio) [PFAS contamination in Alaska](#)
- 2019 Alaska Public Media: Alaska Insight (TV) [How Dangerous are PFAS Chemicals and What's Being Done to Clean Them Up?](#)
- 2019 Alaska Department of Health and Social Services, Section of Public Health Nursing (Webinar) PFAS & Public Health for Nurses †
- 2019 Dillingham Public Meeting (Dillingham, AK) Public Health Concerns related to PFAS Exposures †



2019 Utqiagvik Public Meeting (Utqiagvik, AK) Public Health Concerns related to PFAS Exposures †

2018 Gustavus Public Meeting (Gustavus, AK) Public Health Concerns related to PFAS Exposures †