

JEFFREY, TURNER W., Ph.D.
Department of Life Sciences
Texas A&M University – Corpus Christi
6300 Ocean Drive, Unit 5858
Corpus Christi, TX 78412
Email: jeffrey.turner@tamucc.edu
Website: <http://turnerlab.tamucc.edu/>

EDUCATION

- 2010 **Ph.D. in Microbial Ecology**, Odum School of Ecology
University of Georgia, Athens, GA, USA
- 1997 **B.S. in Chemistry**
Mercer University, Macon, GA, USA

APPOINTMENTS

- 2014 – present **Assistant Professor**, Department of Life Sciences
Texas A&M University – Corpus Christi, TX, USA
- 2012 – 2014 **Postdoctoral Research Associate**, Center for Environmental Genomics
University of Washington, Seattle, WA, USA
- 2011 – 2012 **Postdoctoral Research Associate**, NAS National Research Council
NOAA Northwest Fisheries Science Center, Seattle, WA, USA
- 2010 – 2011 **Postdoctoral Fellow**, PNW Center for Human Health and Ocean Studies
University of Washington, Seattle, WA, USA

GRANTS

Awarded:

- \$59,892 **PI, Coastal Bend Bays and Estuaries Program (CBBEP)**. A bacterial source tracking project to identify sources of fecal pollution at Cole and Ropes Park. 2017 – 2018.
- \$45,284 **PI, Texas General Land Office Coastal Management Program (GLO-CMP)**. Assessing the fate of plastic debris in marine environments. 2016 – 2018.
- \$681,415 **Senior Personnel, National Science Foundation Major Research Implementation (NSF-MRI)**. Acquisition of a Hybrid Mass Spectrometry System with Ultra-Performance Liquid Chromatogram (#1626494). PI: Hussain Abdulla. 2017.
- \$20,000 **PI, Texas Research and Development Funding (TRDF)**. Assessing the fate of plastic debris in coastal environments. 2015 – 2016.

Pending:

- \$185,000 **PI, Texas Sea Grant**. Occurrence and dynamics of antibiotic resistance genes in the marine environment. 2018 – 2020.

- \$47,218 PI, **Coastal Bend Bays and Estuaries Program (CBBEP)**. A bacterial source-tracking project for Little Bay. 2018 – 2019.
- \$20,000 PI, **Texas Comprehensive Research Fund (TCRF)**. Extending RAD tag sequencing to improve bacterial source-tracking. 2017 – 2018.
- \$800,000 PI, **National Institutes of Health Support of Competitive Research (NIH-SCORE)**. Occurrence and functional consequence of intra-clonal genetic variation in pandemic *Vibrio parahaemolyticus*. 2018 – 2022.
- \$1,045,582 Co-PI, **National Science Foundation Major Research Implementation (NSF-MRI)**. Acquisition of a genome sequencer to support genomic research and training. PI: Chris Bird. 2018.
- \$4,500,000 Co-PI, **National Institutes of Health Centers for Oceans and Human Health: Impacts of Climate Change on Oceans and Great Lakes (NIH-COHH3)**. Impact of climate change on conditionally rare taxa – harmful algal blooms (HABs) and pathogenic bacteria – in the northern Gulf of Mexico. PIs: Drs. Erin K. Lipp and Patricia Yager (University of Georgia). Turner share: \$378,000 total direct cost. (2017 – 2022).

Submitted:

Simons Early-Career Investigator in Marine Microbial Ecology and Evolution Award (2016), NOAA Sea Grant Aquaculture Research Program (2016), Gulf Research Program Early-Career Fellowship (2016), Texas Sea Grant (2015), College Research Enhancement Grants (2015), Texas General Land Office Coastal Management Program (2014), Coastal Bend Bays and Estuaries Program (2014).

PUBLICATIONS

Turner-mentored graduate student*; Turner-mentored undergraduate student#
 i10-index of 8, Google Scholar Profile: <https://goo.gl/eKgd8W>

Peer-Reviewed Publications:

11. Moreno, Emille[#], Marci Parks[#], Lee J. Pinnell*, James J. Tallman* and **Jeffrey W. Turner** (2017). Draft genome sequence of a *Vibrio harveyi* strain associated with vibriosis in Pacific white shrimp *Litopenaeus vannamei*. *ASM Genome Announcements* [doi:10.1128/genomeA.01662-16](https://doi.org/10.1128/genomeA.01662-16).
10. Collin, Betty*, Lee J. Pinnell*, James J. Tallman* and **Jeffrey W. Turner** (2016). Draft genome sequences of one marine and one clinical *Vibrio parahaemolyticus* strain, both isolated from Sweden. *ASM Genome Announcements* 4(5):e01196-16. [doi:10.1128/genomeA.01196-16](https://doi.org/10.1128/genomeA.01196-16).
9. **Turner, Jeffrey W.**, Chris T. Berthiaume, Rhonda Morales, E. Virginia Armbrust and Mark S. Strom (2016). Genomic evidence of adaptive evolution in emergent *Vibrio parahaemolyticus* ecotypes. *Elementa: Science of the Anthropocene* 4:000117. [doi:10.12952/journal.elementa.000117](https://doi.org/10.12952/journal.elementa.000117).

8. William B. Nilsson and **Jeffrey W. Turner** (2016). The thermostable direct hemolysin-related hemolysin (*trh*) gene of *Vibrio parahaemolyticus*: Sequence variation and implications for detection and function. *Journal of Microbiological Methods* **126**(2016): 1–7. [doi:10.1016/j.mimet.2016.04.007](https://doi.org/10.1016/j.mimet.2016.04.007).
7. **Turner, Jeffrey W.**, Leena Malayil, Dominic Guadagnoli, Dana C. Cole and Erin K. Lipp (2014). Detection of *Vibrio parahaemolyticus*, *Vibrio vulnificus* and *Vibrio cholerae* with respect to seasonal fluctuations in temperature and plankton abundance. *Environmental Microbiology* **16**(4):1019–1028. [doi:10.1111/1462-2920.12246](https://doi.org/10.1111/1462-2920.12246).
6. **Turner, Jeffrey W.**, Rohinee N. Paranjpye, Eric Landis, Narjol Gonzales-Escalona, William B. Nilsson, Stanley V. Biryukov and Mark S. Strom (2013). Population structure of clinical and environmental *Vibrio parahaemolyticus* from the Pacific Northwest coast of the United States. *PLoS ONE* **8** (2): e55726. [doi:10.1371/journal.pone.0055726](https://doi.org/10.1371/journal.pone.0055726).
5. Xu, Jiajie, **Jeffrey W. Turner**, Matthew Idso, Stanely V. Biryukov, Laurel Rognstad, Heng Gong, Mark S. Strom and Qiuming Yu (2013). *In situ* strain level distinction of *Vibrio parahaemolyticus* using surface enhanced Raman spectroscopy. *Analytical Chemistry* **85** (5): 2630–2637. [doi:10.1021/ac3021888](https://doi.org/10.1021/ac3021888).
4. Mote, Beth L., **Jeffrey W. Turner** and Erin K. Lipp (2012). Persistence and growth of the fecal indicator bacteria, enterococci, in detritus and natural estuarine plankton communities. *Applied and Environmental Microbiology* **78**: 2569-2577. [doi:10.1128/AEM.06902-11](https://doi.org/10.1128/AEM.06902-11).
3. Malayil, Leena, **Jeffrey W. Turner**, Beth L. Mote and Erin K. Lipp (2011). Evaluation of enrichment media for improved detection of *Vibrio cholerae* and *Vibrio vulnificus* from estuarine water and plankton. *Journal of Applied Microbiology* **110**: 1470-1475. [doi:10.1111/j.1365-2672.2011.04996.x](https://doi.org/10.1111/j.1365-2672.2011.04996.x).
2. Sutherland, Kathryn P., James W. Porter, **Jeffrey W. Turner**, Meredith K. Meyers, Monica L. Griffith, Jana C. Futch and Erin K. Lipp (2010). Human sewage identified as likely source of white pox disease of the threatened Caribbean elkhorn coral, *Acropora palmata*. *Environmental Microbiology* **12**(5): 1122-1131. [doi:10.1111/j.1462-2920.2010.02152.x](https://doi.org/10.1111/j.1462-2920.2010.02152.x).
1. **Turner, Jeffrey W.**, Brooks Good, Dana C. Cole and Erin K. Lipp (2009). Plankton composition and environmental factors contribute to *Vibrio* seasonality. *International Society of Microbial Ecology* **3**: 1082-1092. [doi:10.1038/ismej.2009.50](https://doi.org/10.1038/ismej.2009.50).

Book Chapters:

1. Strom, Mark S., Rohinee N. Paranjpye, William B. Nilsson, **Jeffrey W. Turner**, and Gladys K. Yanagida (2013). Pathogen update: *Vibrio* species. *Advances in Microbial Food Safety*. **1**: 97-113. J Sofos (ed), Woodhead publishink, Cambridge, U.K.

Reports:

1. Tobin-D'Angelo, Melissa, Stepy Thomas, Dana C. Cole and **Jeffrey W. Turner** (2007). *Vibrio* in Georgia. *Georgia Epidemiology Report* **23**: 1-4.

Manuscripts in Preparation:

Turner-mentored graduate student*; Turner-mentored undergraduate student[#]

9. Conkle, Jeremy, Christian Báez-Del Valle and **Jeffrey W. Turner** (*In preparation*). Most plastic microbeads in consumer products are smaller than typical surface water trawl mesh sizes.
8. Pinnell, Lee* and **Jeffrey W. Turner** (*In preparation*). Metagenomic analysis of plastic biofilms reveals the enrichment of key functional groups.
7. Tallman, James J*, Lee Pinnell* and **Jeffrey W. Turner** (*In preparation*). Metagenomic investigation of antibiotic resistance in coastal marine ecosystems.
6. Nasr Azadani, Danial[#], **Jeffrey W. Turner** and Daiyuan Zhang (*In preparation*). Development of new methods for the isolation of *Enterococcus faecalis* bacteriophage.
5. Lovato, Devin[#], Feri Billiot, Gregory Buck and **Jeffrey W. Turner** (*In preparation*). Antibacterial activity and fate of amino acid-based surfactants.
4. Tallman, James J*, Amanda Macias[#], Lee Pinnell*, Rohinee Paranjpye and **Jeffrey W. Turner** (*In preparation*). A first look at the range and diversity of *Vibrio antiquarius*.
3. Pinnell, Lee*, James Tallman*, Rohinee Paranjpye, Daniele Provenzano and **Jeffrey W. Turner** (*In preparation*). Genomic analysis of natural attenuation in pandemic *Vibrio parahaemolyticus*.
2. **Turner, Jeffrey W.** (*In preparation*). The pathobiome of a vibriosis outbreak in Pacific white shrimp *Litopenaeus vannamei*.
1. **Turner, Jeffrey W.**, Leena Malayil, Beth L. Mote, Jason Westrich and Erin K. Lipp (*In preparation*). Bloom conditions and copepod maturation promote *Vibrio cholerae* growth in a tidally dominated estuarine river.

PRESENTATIONS

Turner-mentored graduate student*; Turner-mentored undergraduate student[#]

Selected Invited Symposia:

9. **Turner, Jeffrey W.** (2017). The ‘flesh-eating’ bacterium *Vibrio vulnificus*. Teen STEM Café, Texas State Aquarium, Corpus Christi, TX.
8. **Turner, Jeffrey W.** (2017). Deciphering cryptic genetic variation in clonal pathogenic bacterial species. Texas Branch Meeting American Society of Microbiology (TX-ASM), New Braunfels, TX.
7. **Turner, Jeffrey W.** (2016). Not all *Vibrio* are virulent – knowing the difference can prevent illness and optimize resource management. Coastal Bend Bays Foundation’s Coastal Issues Forum. Del Mar College, Corpus Christi, TX.
6. **Turner, Jeffrey, W.** (2016). Genomic investigation of a *Vibrio parahaemolyticus* outbreak in the Pacific Northwest. UT Marine Science Institute (UTMSI), Port Aransas, TX.

5. **Turner, Jeffrey W.** (2015). Evolution of stress response in predominant *Vibrio parahaemolyticus* strains. Harte Research Institute (HRI) Seminar Series. Texas A&M University – Corpus Christi, TX.
4. **Turner, Jeffrey W.** (2014). Positive selection shapes the diversity of predominant *Vibrio parahaemolyticus* strains. Marine Biology Interdisciplinary Graduate Program (MARB-IDP) Retreat. Texas A&M University – College Station, TX.
3. **Turner, Jeffrey W.** (2014). Genomics analysis of predominant *Vibrio parahaemolyticus* sequence types. Texas A&M University – Galveston, TX.
2. **Turner, Jeffrey W.** and Mark S. Strom (2011). Genetic Diversity of *Vibrio parahaemolyticus* in the Pacific Northwest. Guest Lecture. Washington State Department of Health, Tumwater, WA.
1. **Turner, Jeffrey W.** and Mark S. Strom (2011). Genetic Diversity of *Vibrio parahaemolyticus* in the Pacific Northwest. Oceans and Human Health (OHH) Seminar Series, University of Washington, Seattle, WA.

Selected Conference Presentations:

11. Tallman, James J* and **Jeffrey W. Turner** (2016). Metagenomic investigation of antibiotic resistance in Texas Coastal Bays. Marine Biology Interdisciplinary Graduate Program (MARB-IDP) Retreat, Texas A&M University – Galveston, TX.
10. Elledge, Nicole*, Ron I. Eytan and **Jeffrey W. Turner** (2016). Genomic analysis of *Serratia marcesens* associated with white pox disease in Elkhorn coral (*Acropora palmata*). Marine Biology Interdisciplinary Graduate Program (MARB-IDP) Retreat, Texas A&M University – Galveston, TX.
9. Pinnell, Lee* and **Jeffrey W. Turner** (2016). Bacterial response to plastic in a lagoonal estuary. Marine Biology Graduate Student Symposium, Texas A&M University – Corpus Christi, TX.
8. Pinnell, Lee* and **Jeffrey W. Turner** (2016). Bacterial response to plastic in a lagoonal estuary. American Society of Microbiology (ASM) Texas Branch Meeting, Dallas, TX.
7. **Turner, Jeffrey W.**, Chris Berthiaume, Rhonda Morales, Stanley V. Biryukov, E. Virginia Armbrust and Mark S. Strom (2012). Comparative genomics of emergent *Vibrio parahaemolyticus* reveals new markers for improved virulence detection in Washington State. Gordon Research Symposium (GRS) on Oceans and Human Health (OHH), Biddeford, ME.
6. **Turner, Jeffrey W.**, Jason Westrich, Eric V. Stabb, Erin K. Lipp (2010). Attachment of *Vibrio cholerae* to an environmental host – the marine copepod. Odum School of Ecology, Graduate Student Symposium, University of Georgia, Athens, GA.
5. **Turner, Jeffrey W.**, Jason Westrich, Eric V. Stabb, Erin K. Lipp (2010). GFP and RFP tools for observing the attachment of *Vibrio cholerae* to the copepod host. NOAA's Oceans and Human Health Principle Investigator Meeting, Seattle, WA.
4. **Turner, Jeffrey W.**, Brooks Good, Dana C. Cole, Erin K. Lipp (2009). Plankton composition and environmental factors contribute to the seasonality of pathogenic *Vibrio*

species. Odum School of Ecology, Graduate Student Symposium, University of Georgia, Athens, GA.

3. **Turner, Jeffrey W.**, Brooks Good, Dana C. Cole, Erin K. Lipp (2009). Plankton composition contributes to the seasonality of pathogenic *Vibrio* species. Southeastern Estuarine Society, Coastal Carolina University, Conway, SC.
2. **Turner, Jeffrey W.**, Dana C. Cole, Erin K. Lipp (2008). Environmental factors affecting the status of plankton as a reservoir for *Vibrio* species. Odum School of Ecology, Graduate Student Symposium, University of Georgia, Athens, GA.
1. **Turner, Jeffrey W.**, Dana C. Cole, Erin K. Lipp (2007). Seasonal dynamics of pathogenic *Vibrio* species in Georgia's coastal waters. Odum School of Ecology, Graduate Student Symposium, University of Georgia, Athens, GA.

Selected Conference Posters:

20. Crockett, Patricia C., **Jeffrey W. Turner** and Christopher E. Bird (2017). Draft genome assembly of *Cellana sandwicensis*. Benthic Ecology Meeting Society, Myrtle Beach, SC.
19. Elledge, Nicole*, Lee Pinnell, Ron Eytan and **Jeffrey W. Turner** (2017). Genomic analysis of *Serratia marcescens* associated with white pox disease in elkhorn corals. Benthic Ecology Meeting Society, Myrtle Beach, SC.
18. Nasr Azadani, Danial[#], Rachael A. Bruce[#], **Jeffrey W. Turner** and Daiyuan Zhang (2017). New methods for the isolation of *Enterococcus faecalis* phage from the marine environment. American Association for the Advancement of Science (AAAS) Annual Meeting, Boston, MA.
17. Nasr Azadani, Danial[#], Rachael A. Bruce[#], **Jeffrey W. Turner** and Daiyuan Zhang (2016). Development of new methods for the isolation of *Enterococcus faecalis* bacteriophage from the marine environment. American Society of Microbiology (ASM) Texas Branch Meeting, Dallas, TX.
16. Tallman, James J.*, Lee Pinnell* and **Jeffrey W. Turner** (2016). Metagenomic Investigation of Antibiotic Resistance in the Marine Environment. SACNAS National Conference, Long Beach, CA.
15. Nasr Azadani, Danial[#], Rachael A. Bruce[#], **Jeffrey W. Turner** and Daisy Zhang (2016). Development of new methods for the isolation of *Enterococcus faecalis* bacteriophage from the marine environment. SACNAS National Conference, Long Beach, CA.
14. Thiyagarajan, Magesh, **Jeffrey W. Turner**, Lee Pinnell*, James J. Tallman* and Emille Moreno[#] (2016). Non-thermal atmospheric pressure air plasma treatment for food safety. IEEE International Conference on Plasma Science, Banff, Canada.
13. Lovato, Devin[#], **Jeffrey W. Turner**, Feri Billiot and Gregory Buck (2016). Antibacterial analysis of an isoleucine based surfactant. American Chemical Society (ACS) Meeting, San Diego, CA.
12. Pinnell, Lee*, James J. Tallman*, Rohinee Paranjpye and **Jeffrey W. Turner** (2016). Genomic analysis of attenuation in pandemic *Vibrio parahaemolyticus*. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, New Orleans, LA.

11. Moreno, Emille[#], Marci Parks[#], Lee Pinnell*, Rohinee Paranjpye and **Jeffrey W. Turner** (2016). Genomic analysis of two emergent *Vibrio parahaemolyticus* ecotypes. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, New Orleans, LA.
10. Parks, Marci[#], Emille Moreno[#], Lee Pinnell*, James J. Tallman*, Rohinee Paranjpye and **Jeffrey W. Turner** (2016). Genome sequencing and analysis of a highly virulent *Vibrio parahaemolyticus* strain isolated from the marine environment. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, New Orleans, LA.
9. Macias, Amanda[#], James J. Tallman*, Rohinee Paranjpye and **Jeffrey W. Turner** (2015). Genomic comparison of *Vibrio antiquarius* isolated from deep-sea and coastal environments. American Society of Microbiology (ASM), General Meeting, New Orleans, LA.
8. **Turner, Jeffrey W.**, Chris Berthiaume, Rhonda Morales, Stanely V. Biryukov, E. Virginia Armbrust and Mark S. Strom (2012). Comparative genomics of emergent *Vibrio parahaemolyticus* reveals new markers for improved virulence detection in Washington State. American Society of Microbiology (ASM), General Meeting, San Francisco, CA.
7. **Turner Jeffrey W.**, Eric D. Landis, Rohinee N. Paranjpye, E. Virginia Armbrust and Mark S. Strom (2010). Genome-level characterization of *Vibrio parahaemolyticus*. *Vibrio in the Environment 2010*, Biloxi, MS.
6. **Turner, Jeffrey W.**, Leena Malayil, Beth L. Mote, Dana C. Cole and Erin K. Lipp (2009). Is *Vibrio cholerae* a plankton specialist? American Society of Microbiology (ASM), Philadelphia, PA.
5. **Turner, Jeffrey W.**, Leena Malayil, Dana C. Cole and Erin K. Lipp (2008). Temperature and reservoir shifts contribute to the seasonality of pathogenic *Vibrio* species. Gordon Research Conference (GRC) on Oceans and Human Health (OHH), Tilton College, Tilton, NH.
4. **Turner, Jeffrey W.**, Dana C. Cole and Erin K. Lipp (2008). Ecology of *Vibrio* species in shellfish harvesting waters with respect to seasonal changes and reservoir shifts. NOAA's Oceans and Human Health (OHH) Principle Investigator Meeting, Muskegon, MI.
3. **Turner, Jeffrey W.**, Dana C. Cole and Erin K. Lipp (2007). Detection of *Vibrio cholerae* and virulence-associated genes in a seasonally distributed *Vibrio* population in shellfish harvesting waters, Georgia, USA. Ecology of Infectious Disease Symposium, University of Georgia, Athens, GA.
2. **Turner, Jeffrey W.**, Dana C. Cole, Erin K. Lipp (2007). Detection of *Vibrio cholerae*, *ctxA* and *toxR* in a seasonally distributed *Vibrio* population in shellfish harvesting waters, Georgia, USA. American Society of Microbiology (ASM), Orlando, FL.
1. **Turner, Jeffrey W.**, Dana C. Cole and Erin K. Lipp (2007). Seasonal distribution of pathogenic *Vibrio* species in Georgia shellfish harvesting waters. Academy of the Environment, University of Georgia, Athens, GA.

TEACHING

Graduate Courses:

MARB-6343 Oceans and Human Health
MARB-6590 DNA Sequencing Informatics (approved for Spring 2018)

Undergraduate Courses:

BIOL-1406 Biology I
BIOL-2421 Microbiology

Directed Independent Studies (DIS):

MARB-6596 Genome Assembly and Analysis
CMSS-6596 Genome Assembly and Analysis
BIMS-4396 Methods in Microbiology
BIOL-4396 Genome Assembly and Analysis
BIOL-4396 Elephant Conservation

Guest Lectures:

BIOL-2416 Genetics
BIOL-5417 Marine Microbial Ecology
BIOL-5436 Marine Ecological Processes
OCEAN-250 Marine Biology, University of Washington, Seattle
PATHOBIOLOGY-568 Infectious Disease, University of Washington, Seattle, WA
3rd Summer Course Environment and Human Health, City University of Hong Kong

ACADEMIC ADVISING

Graduate Students Advised (as thesis chair):

Nicole Elledge, Ph.D. MARB, Fall 2016 – current
Lee Pinnell, Ph.D. MARB, Fall 2015 – current
Awards: Summer Student Success Scholarship, Texas Sea Grant Grants-In-Aid of Research, MARB Competitive Research Assistantship
James J. Tallman, M.S., Fall 2015 – current
Awards: Summer Student Success Scholarship, Texas Sea Grant Grants-In-Aid of Research, Accepted to Ph.D. Microbiology program at University of Georgia Fall 2017

Undergraduate Students Advised (as research mentor):

Adriel R. Bruce, B.S. BIOL, Current
Danial Nasr, B.S. BIOL, Current
Devin Lovato, B.S. CHEM, Current, Welch Scholar
Amanda Macias, B.S. BIOL, Graduated Spring 2016, SOAR Scholar
Emille Moreno, B.S. BIOL, Graduated Spring 2016, Attending UT–SAHS graduate school
Marcy Parks, B.S. CHEM, Current
Megan Wood, B.S. BIOL, Current, McNair Scholar

Graduate Student Committees:

Sarah Bortz, BIOL M.S., Current
Kalman Bugica, MARB Ph.D., Current
Meredith Diskin, MARB Ph.D., Current
Ken Hayes, MARB M.S., Current
Megan Mullis, MARB Ph.D., Current
Joseph Reustle, MARB Ph.D., Current
Jennifer M. Savicky, MARB M.S., Graduate
Morgan Sobol, MARB M.S., Current

Commitment STEM Participation:

First in the World/STEM Supplemental Instruction Project (FITW-SIP)
NSF's Elementary Teachers Engaged in Authentic Math and Science (ETEAMS)
Del Mar College workshop entitled Mentoring Undergraduate Research
Louis Stokes Alliances for Minority Participation (LSAMP)
STEM Outreach, Access and Retention (SOAR) Program
Pathways Student Research Symposium
Instructor for Science Olympiad
University of Washington Undergraduate Research Symposium
Research Experience for Undergraduates (REU) at University of Georgia

PROFESSIONAL SERVICE

University:

University committees. Health and Safety Committee (2016 – present)
Student organizations. Faculty advisor for the Islander Stream Team (2016 – Present)
Student recruitment. Island Days (2015 – Present)
Symposia judge. Pathways Student Research Conference (2015)
Events. Instructor for the Bio-Process event at Science Olympiad (2015)

College:

Boards. Genomics Core Facility Board Member (2015 – Present)
Workshops. Co-facilitator for workshop of Student Centered Classrooms (2017)

Department:

Faculty search committees. Marine Biomedical Scientist (2017), Life Sciences Department Chair (2016), Watershed Ecologist (2015)
Department committees. Committee for Excellence in the Preparation of Teachers (2017)

External:

Ad hoc reviewer. NSF Division of Ocean Sciences, Sea Grant (New Hampshire and Virginia), and Texas Academy of Sciences
Editorial board. Frontiers in Environmental Health (2016 – present)

Manuscript reviewer. Applied and Environmental Microbiology (AEM), Journal of Microbiology, Microbial Ecology, Frontiers in Aquatic Microbiology, Federation of European Microbiological Society (FEMS), Frontiers in Environmental Science and Public Health (2010 – present)

Symposia judge. American Society of Microbiology (2016), Texas Branch American Society of Microbiology (2016), Marine Biology Research Symposium (2015 – present)

Community engagement. Oso Bay & Oso Creek Coordination Committee, Cole and Ropes Park Coordination Committee (2015 – present), Coastal Bend Bays and Estuaries Program Water and Sediment Quality Implementation Team (2015 – present)

Seminar coordination. Coordinator of the Ocean and Human Health Seminar Series at University of Washington’s Pacific Northwest Center for Human Health (2010 – 2012)

WORKSHOPS

Facilitator. Teaching and Instruction in Student-Centered Classrooms at Texas A&M University – Corpus Christi (2017), Co-facilitated with Drs. Cherie McCollough and Benjamin Walther

Attendee. National Academies Summer Institute on Undergraduate Education at Louisiana State University (2015), Challenge-Based Instruction at University of Texas – Rio Grande Valley (2015), New Faculty Seminar Series at Texas A&M University – Corpus Christi (2015 – 2016), Best Practices for Online Course Design at Texas A&M University – Corpus Christi (2015)

PROFESSIONAL MEMBERSHIPS

American Chemical Society (ACS), American Society of Limnology and Oceanography (ASLO), American Society for Microbiology (ASM), International Society for Microbial Ecology (ISME), Texas OneGulf Network of Experts (TONE), Society for Advancing Chicanos/Hispanics & Native Americans in Science (SACNAS), Surfrider Foundation

PRESS

- Community College Daily press release about collaborative bacteriophage research with Del Mar College. **The virus hunters.** <https://goo.gl/IRCr6j>.
- TAMU–CC press release about plastic pollution research. **Experiment seeks to ID plastic-eating microorganisms** (2016). <https://goo.gl/s0nmT9> and <https://goo.gl/cHyZLm>.
- Interview with local KRISTV news station about plastic pollution research. **Solving plastics pollution** (2016). <https://goo.gl/s0nmT9>.