**Paxton T. Bachand**

Pbachand@islander.tamucc.edu (605) 210-3080

as

**EDUCATION**

**Ph.D., Marine Biology**........................................................................................... 2017 - Present

Thesis Project: Effects of temperature and salinity stress in two model marine organisms in a subtropical semi-arid climate zone

**B.S., Marine Fisheries, *magna cum laude*** ...................................... Awarded | December 2016

Texas A&M University at Galveston, Texas

**B.S., Marine Biology - *magna cum laude***.................................................. Awarded | May 2015

Texas A&M University at Galveston, Texas

**PUBLICATIONS**

BD Walther, **PT Bachand**, A Hinson, CA O’Donnell, JW Turner(2020). Investigating salinity fluctuations and pathogen infection patterns between natural and restored subtropical oyster reefs. *Experimental Results (Accepted)*.

**PT Bachand**, JJ Tallman, NC Powers, M Woods, DN Azadani, PV Zimba, JW Turner (2020)*.* Genomic identification and characterization of co-occurring Harveyi clade species during a vibriosis outbreak in Pacific white shrimp *Penaeus* (*litopenaeus) vannamei*. *Aquaculture.* **518**, 734628. https://doi.org/10.1016/j.aquaculture.2019.734628

BD Walther, JW Turner, **PT Bachand**, CA O’Donnel, A Hinson (2019). Oyster Flood Tracker Project: Reconstructing inflows to reefs and effects on *Vibrio vulnificus* and *Perkinsus marinus* abundance. *Coastal Bend Bays and Estuaries Program Final Report Project #1920.*

**RESEARCH EXPERIENCE**

**Microbial Genomics Laboratory, Texas A&M University, Corpus Christi, TX**

*Laboratory/Data Manager and Field Supervisor* ............................... December 2016 - Present

**Seafood Safety Laboratory, Texas A&M University, Galveston, TX**

*Field and Laboratory Technician* .............................................. January 2016 - December 2016

**Conservation & Population Genetics Laboratory, Texas A&M University, Galveston, TX**

*Undergraduate Researcher* ..................................................... January 2016 - December 2016

**Marine Evolutionary Genetics Laboratory, Texas A&M University, Galveston, TX**

*Undergraduate Researcher* ......................................................... June 2014 – September 2015

**Shark Biology & Fisheries Science Laboratory, Texas A&M University, Galveston, TX**

*Undergraduate Researcher* ...................................................................... May 2013 - July 2014

**Plant Genomics Laboratory, Black Hills State University, Spearfish, SD**

*Undergraduate Researcher* ............................................................... January 2011 - May 2012

**TEACHING EXPERIENCE**

**Field Supervisor & Lab/Data Manager** ................................................. January 2019 - Present

Micro -omics Lab, Texas A&M University, Corpus Christi, TX

**Microbiology (Nursing, Majors) & Physiology Teaching Assistant** ....August 2017 - Present

Texas A&M University, Corpus Christi, TX

**Sea Camp Educational Outreach Program Coordinator &** **Aide** .....May 2014 – August 2017

Texas A&M University, Galveston, TX

**SCIENTIFIC CONFRENCES**

**PT Bachand**, KC Hayes, S Tominack, MS Wetz, JW Turner. Bacterial and archaeal communities associated with an *Aureoumbra lagunensis* bloom in Baffin Bay, Texas. ASM 2020. Chicago, IL, June 2020. (*Abstract accepted, conference COVID cancelled*).

**PT Bachand**, KC Hayes, S Tominack, MS Wetz, JW Turner. Characterization of bacterial and archaeal communities associated with an *Aureoumbra lagunensis* bloom in Baffin Bay, Texas. Texas ASM Spring Meeting. New Braunfels, TX, March 2019.

**PT Bachand**, KC Hayes, S Tominack, MS Wetz, JW Turner. Preliminary characterization of bacterial and archaeal communities associated with an *Aureoumbra lagunensis* bloom in Baffin Bay, Texas. MARB IDP Retreat. Texas A&M University Corpus Christi, TX, Jan 2018.

**PT Bachand**, JW Turner. Genomic analysis of HEP-1B-8, a novel *Vibrio* sp. isolated from aquacultured Pacific White Shrimp (*Litopenaeus vannamei*) during a bacterial disease outbreak. Texas ASM Fall Meeting. Corpus Christi, TX, November 2018.

**PT Bachand**, JW Turner.The characterization of a culturable pathobiome contributing to a disease outbreak in pacific white shrimp (*Litopenaeus vannamei)*. American Association for the Advancement of Science, Austin, TX, February 2018.

**AWARDS, CERTIFICATIONS, AND ORGANIZATIONS**

Texas Sea Grant Grants-in-Aid of Graduate Research Recipient ($2,488.45)...................... 2020

College of Graduate Studies Outstanding Teaching Assistant Award ($1000) ..................... 2020

Millicent A. Quammen Research Award ($884) .................................................................... 2020

Graduate Student Scholarship ($1000) ...................................................................... 2018 - 2020

*Lamba Kappa Alpha* Honors Distinction ................................................................................ 2016

*Magna Cum Laude* Latin Honors distinction ................................................................ 2015, 2016

TAMU-G Competitive & Continuing Academic Scholarship(s) ($15,280/yr.) ............. 2013 - 2016

Academically Distinguished Student Award and Dean’s List Placement ................... 2013 - 2016

*Beta Beta Beta* National Biological Honors Society ................................................... 2013 - 2016

BOEM/BSEE Certified Protected Marine Species Observer ................................................. 2015

Certified Rescue and Licensed AAUS Scientific Diver .......................................................... 2014

**INTERNSHIP AND VOLUNTEER EXPERIENCE**

Riviera High School Citizen Science Coordinator ................................................................. 2020

Diurnal Sampling Volunteer.................................................................................................... 2020

Science Olympiad Judge and Proctor ........................................................................ 2013 - 2016

Flower Garden Banks National Marine Sanctuary Outreach and Dive Volunteer ...... 2014 - 2015

Galveston Bay Foundation Adopt-A-Beach Cleanup Volunteer ............................................ 2015

South Dakota State Senate Intern............................................................................... 2009 - 2010

Spirit of the Hills Wildlife Sanctuary Volunteer........................................................... 2005 – 2009