

Courtney Taylor Lee
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Education:

- Texas A&M University at Galveston, Master of Science-Marine Biology, expected graduation August 2013, current GPA-4.0
- Texas A&M University-Corpus Christi, Bachelor of Science-Biology, May 2010, 4.0 GPA-Summa Cum Laude

Research Experience:

- Texas A&M University at Galveston: August 2010-present
 - Coastal and Wetlands Ecology Lab Research Assistant: Progress of restoration projects; Ecological relevance of genetic diversity
 - Field work: faunal throw trap and floral sampling, abiotic parameters (soil and water quality)
 - Lab work: identification of faunal and floral species, water filtering, phosphorus, carbon, hydrogen, and nitrogen analysis
- Texas A&M University-Corpus Christi Honors Program: August 2009-May 2010
 - Project of Excellence Research: Sunflower demographic research
 - Field work: use of LI-COR photosynthesis system
 - Lab work: leaf area measurements
- Undergraduate Mentoring in Environmental Biology research at TAMUCC, National Science Foundation funded #0602783: January 2008-June 2010
 - Fisheries Ecology Lab: Historical shark fishery trends; Estuarine organism habitat use
 - Field work: offshore fishing, drop-net sampling, and epibenthic sled tow
 - Lab work: sorting and identification of estuarine species, otolith extraction and analysis
 - Population Genetics Lab: Population structure of important fishery
 - Lab work: DNA extraction, PCR, fragment analysis on CEQ 8000 and 8800, score allele fragments

Teaching Experience:

- Coastal Plant Ecology Lab, Teaching Assistant: August 2011-December 2011
 - Teach and prepare senior level lab, grade quizzes and assignments
- Biology I and II tutor and mentor, NSF funded #0622530: Science Talent Expansion Program: Aug 2007-May 2010
 - Prepare and hold student driven tutoring sessions for freshman biology 1406 and 1407, help develop exams, give guest lectures, train new mentors

Extracurricular Activities:

- Girls on the Run
 - Assistant Coach: September -November 2011; March-May 2012

- Mentored and coached fifth graders personal etiquette and running
- Galveston Surfrider Chapter:
 - Outreach Officer: August 2011-present
 - Monthly board meeting attendance
 - “Surf and Turf” afterschool program designed to teach students how to surf and maintain ocean friendly gardens
 - Developed lessons to instruct students to surf, identify beach organisms and zones, understand components to creating an environmentally friendly garden
 - Planted gardens at two Galveston Independent School District schools
 - Member: Spring 2011-present
 - General meeting attendance, beach clean-ups, monofilament clean up, dune restoration

University Committees:

- Galveston Graduate Student Association:
 - Vice President: August 2011-present
 - Monthly board meetings
 - Fundraising: calendar sales
 - Fall 2010-present
 - Monthly general meetings
 - Fort Crockett Garage Sale: Set up furniture, helped with sales
- Strategies for Ecology Education, Diversity, and Sustainability: Ecological Society of America:
 - Student contact for ESA Annual Meeting August 2011 field trip: August 2010-August 2011
 - Participated in phone and email conversations to coordinate and plan field trip
 - Coordinated Corpus Christi SEEDS chapter with other ESA sections to organize and produce a successful field trip
 - President and active member: Fall 2008-May 2010
 - Conducted monthly meetings to discuss opportunities and events for SEEDS and the Corpus Christi SEEDS chapter
 - Participated in birding with elementary students and trash pick up
 - Participated in chapter’s birding events, research, and field trips
- Honor Student Association:
 - Honors Council Curriculum Representative, May 2009-May 2010
 - Attend monthly panel meetings to help further the Honors Program’s mission and purpose for the students and campus community
 - Attend weekly Honor Student Association meetings to help plan activities, fundraisers, and events for the Program and Association
 - Public Relations Manager, May 2008-May 2009
 - Developed volunteer activities, newspaper, and fundraisers

- Attended weekly Honor Student Association meetings to help plan activities, fundraisers, and events for the Program and Association
- Active member: Spring 2007-Spring 2010
 - Participated in Habitat for Humanity projects, Fall 2009
 - Participated in fundraising for Metro Ministries and scholarship funds
 - Regional and National Ethics Bowl participant and researcher, Fall 2007 and Spring 2008
- Quality Enhancement Plan Steering Committee:
 - Member: September 2008-May 2010
 - Participated in conversations focused on enriching the university and the student programs to increase retention

Presentations:

- *Oral Presentations:*
 - Grise, David, Caitlin Bailey, **Courtney Lee**, and Mariela Rivera. Understanding and Implementing Team-Based Learning in Large Lecture Courses. Annual Meeting of the Ecological Society of America. 8 August 2011. Austin, TX.
 - **Lee, Courtney**, Cynthia Morales, Dr. Gregory W. Stunz, Dr. Robert R. Vega, and Dr. R. Deborah Overath. Microsatellites reveal weak stock structure in spotted seatrout, *Cynoscion nebulosus*, in the western Gulf of Mexico. Ninth Annual Sigma Xi Undergraduate Symposium. 10 October 2009. Corpus Christi, Texas.
 - **Lee, Courtney**, Dr. Gregory Stunz, John Froeschke, and Megan Reese. Historical Population Trends of Fisheries in the Western Gulf of Mexico from 1940- 2007. Eight Annual Sigma Xi Undergraduate Symposium. 1 Nov 2008. Corpus Christi, Texas.
 - **Lee, Courtney**, Dr. Gregory Stunz, John Froeschke, and Megan Reese. Historical Population Trends of Fisheries in the Western Gulf of Mexico from 1940- 2007. Summer Undergraduate Research Focus Symposium. 31 July 2008. Corpus Christi, Texas.
- *Poster Presentations:*
 - **Lee, Courtney**. Does ecotypic-based genetic diversity of a dominant plant impact ecosystem health and stability? A case study in a restored *Spartina alterniflora* marsh. Coastal and Estuary Research Federation Biennial Conference. 7 November 2011. Daytona Beach, Florida.
 - Gris , David and **Courtney Lee**. Differences in photosynthetic rates of winter-active and summer-active *Helianthus annuus* on the Gulf Coast. Annual Meeting of the Ecological Society of America. 9 August 2011. Austin, TX.
 - **Lee, Courtney** and Dr. Anna Armitage. What are the implication of genetic variation and diversity for restored *Spartina* marsh health? Researchf and Graduate Studies Office Annual Symposium. 20 April 2011. Galveston, Texas.

- **Lee, Courtney** and Dr. Anna Armitage. What are the implication of genetic variation and diversity for restored *Spartina* marsh health? Marine Biology Interdisciplinary Program Annual Symposium. 16 December 2010. Galveston, Texas.
- **Lee, Courtney**, Cynthia Morales, Dr. Gregory W. Stunz, Dr. Robert Vega, and Dr. R. Deborah Overath. Microsatellites reveal stock structure in spotted seatrout, *Cynoscion nebulosus*, in the western Gulf of Mexico. Society for the Advancement of Chicanos and Native Americans in Science Annual Meeting. 30-3 October 2010. Anaheim, California.
- **Lee, Courtney**, Dr. R. Deborah Overath, John Froeschke, Cynthia Morales, Dr. Gregory W. Stunz, and Dr. Robert R. Vega. Stock structure of the demersal fish *Cynoscion nebulosus* determined by multiple techniques. Ecological Society of America Annual Meeting. 4 August 2010. Pittsburgh, Pennsylvania.
- Grisé, David, **Courtney Lee** and Caitlin Bailey. Student Performance in large-lecture introductory biology course correlates with mentoring sessions and math course. Ecological Society of America Annual Meeting. 2 August 2010. Pittsburgh, Pennsylvania.
- Grisé, David and **Courtney Lee**. Photosynthetic characteristics of two Gulf Coast *Helianthus* species restricted to soil types. Ecological Society of America Annual Meeting. 3 August 2010. Pittsburgh, Pennsylvania.
- **Lee, Courtney**, Cynthia Morales, Dr. Gregory W. Stunz, Dr. Robert R. Vega, and Dr. R. Deborah Overath. Microsatellites reveal stock structure in spotted seatrout, *Cynoscion nebulosus*, in the western Gulf of Mexico. Evolution Annual Meeting. 26 June 2010. Portland, Oregon.
- **Lee, Courtney**, Cynthia Morales, Dr. Gregory W. Stunz, Dr. Robert R. Vega, and Dr. R. Deborah Overath. Microsatellites reveal weak stock structure in spotted seatrout, *Cynoscion nebulosus*, in the western Gulf of Mexico. Coastal and Estuary Research Federation Biennial Conference. 4 November 2009. Portland, Oregon.
- **Lee, Courtney**, Cynthia Morales, Dr. Gregory W. Stunz, Dr. Robert R. Vega, and Dr. R. Deborah Overath. Genetic stock structure of spotted seatrout, *Cynoscion nebulosus*, populations in the western Gulf of Mexico. Society for the Advancement of Chicanos and Native Americans in Science Annual Meeting. 16 October 2009. Dallas, Texas.
- **Lee, Courtney**, Cynthia Morales, Dr. Gregory W. Stunz, Dr. Robert R. Vega, and Dr. R. Deborah Overath. Genetic stock structure of spotted seatrout, *Cynoscion nebulosus*, populations in the western Gulf of Mexico. Ecological Society of America Annual Meeting. 5 August 2009. Albuquerque, New Mexico.
- **Lee, Courtney**, and Dr. R. Deborah Overath. Utilizing genetic analysis to identify spotted seatrout, *Cynoscion nebulosus*, populations within Gulf of Mexico bays. Benthic Ecology Annual Meeting. 5 March 2009. Corpus Christi, Texas.
- **Lee, Courtney**, Dr. Gregory Stunz, John Froeschke, and Megan Reese. Historical Population Trends of Fisheries in the Western Gulf of Mexico

from 1940- 2007. Society for the Advancement of Chicanos and Native Americans in Science Annual Meeting. 11 Oct 2008. Salt Lake City, Utah.

Volunteer Experience:

- National Ocean Sciences Bowl-Loggerhead Challenge: February 2009 and 2010
 - Attended training events to learn how to score and post questions
 - Kept score and moderated for high school academic competition
- Science Rules: March 2008, 2009, and 2010
 - Demonstration of marine science and biology applications for 5th graders from local school district
- Oso Bay shoreline clean up/trash pick-up: April 2009
- Homeless Ministry: January 2009-May 2010
 - Monthly service to distribute food to the homeless through Catholic Charity House
- Captivating and Encouraging Leaders in Life Sciences mentor: Jan 2008-May 2010
 - Mentored freshman biology students adjusting to college and courses
 - Attend weekly seminar to help students and answer questions
- Honors Mentoring Program: Aug 2007-Dec 2009
 - Mentored incoming students adjusting to college and the program
 - Attend programs to help befriend and communicate with mentee
- Assistant to graduate student, August 2007- Nov 2007
 - Assisted with thesis project
 - Sorted benthic organisms
- Texas Marine Mammal Stranding Network, April 2007-May 2010
 - Observed dolphins in rehab at Texas State Aquarium Sea Lab
 - Participated in whale necropsy

Awards and Honors:

- *Travel Awards*
 - Mooney Travel Grant-Fall 2011
 - Galveston Graduate Student Association Mini Travel Grant- Spring 2011
 - Strategies for Ecology Education, Diversity, and Sustainability: Leadership Conference trip- March 2010
 - Strategies for Ecology Education, Diversity, and Sustainability: Ecological Society of America Annual Meeting Travel Award- August 2010
 - Evolution Annual Meeting Undergraduate Diversity Travel Award- June 2010
 - Society for the Advancement of Chicanos and Native Americans in Science: Meeting Annual Meeting Travel Award- October 2009
 - Strategies for Ecology Education, Diversity, and Sustainability: Ecological Society of America Annual Meeting Travel Award- August 2009
 - Strategies for Ecology Education, Diversity, and Sustainability: Harvard Forest field trip- October 2008
 - Society for the Advancement of Chicanos and Native Americans in Science: Meeting Annual Meeting Travel Award- October 2008

- *Presentation Awards*
 - 3rd place- Oral presentation at Sigma Xi Undergraduate Symposium, 10 October 2009
 - 3rd place- Oral presentation at Sigma Xi Undergraduate Symposium, 1 November 2008

- *Scholarship/Academic Honor*
 - Arthur F. Lobe Endowed Scholarship- Fall 2009- Spring 2010
 - John Chapman Endowed Scholarship- Fall 2009- Spring 2010
 - Honors Program Officers Scholarship- Fall 2008- Spring 2009
 - Marty Pritchett Scholarship- Fall 2008-Spring 2009
 - Kenedy Memorial Scholarship- Spring 2007- Spring 2009
 - Academic Achievement Scholarship- Fall 2006-May 2010
 - National Dean's List- Fall 2006-May 2010

Skills:

- Software
 - Microsoft Word and Excel
 - SAS, Sigma Plot, JMP, R for statistical analysis
 - ARLEQUIN 3.11 for population genetics data analysis
- Boating (22 ft vessel)
 - Trailering, docking, driving to sample in marsh
- SCUBA
 - Open water certified
- CPR and First Aid