

- Schedule of Student Talks – Thursday, April 5

Session 1: 2:00 PM – 3:00 PM

| | Rudder Tower Room 404 | Rudder Tower Room 401 | Rudder Tower Room 410 |
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| Theme | Human-Environment Interactions | Physiology | Transcriptomics |
| 2:00PM | <p>T1. Understanding the Human-Tiger Relationship in the Sunderbans of India and Bangladesh</p> <p style="text-align: center;">Amit Ghoshal</p> | <p>T5. Does the Nose Know? The Link Between Olfactory Tracking and Nose Morphology in Bats</p> <p style="text-align: center;">Alyson Brokaw</p> | <p>T8. Let's Talk About Sex: Identifying Female and Male Markers in Blow Flies</p> <p style="text-align: center;">Michelle Jonika</p> |
| 2:15PM | <p>T2. How oil and gas industry responded to the Macondo incident and modification in offshore drilling technology that has improved safety level</p> <p style="text-align: center;">Vy Le</p> | <p>T6. Effects of vegetation type on <i>Callinectes sapidus</i> predation success and predator behavior</p> <p style="text-align: center;">Rachael Glazner</p> | <p>T9. Using Geographic Clines to Detect Candidate Targets of Selection</p> <p style="text-align: center;">Gaston Jofre Rodriguez</p> |
| 2:30PM | <p>T3. Lethal and sub-lethal effects of the insecticide fipronil on juvenile White shrimp, <i>Litopenaeus setiferus</i></p> <p style="text-align: center;">Ali Albadran</p> | <p>T7. A multiple regression model to predict phases of <i>Schistocerca piceifrons</i></p> <p style="text-align: center;">Drew Little</p> | <p>T10. Expression analysis of vitellogenins in the workers of the red imported fire ant (<i>Solenopsis invicta</i>)</p> <p style="text-align: center;">Chloe Hawkings</p> |
| 3:00PM | <p>T4. Species-specific patterns of microbiome restructuring in two Red Sea Scleractinia: Do flexible and inflexible microbiomes represent distinct strategies?</p> | | <p>T11. Brain gene expression of queen fire ants</p> |

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| | Carsten Grupstra | | Travis Calkins |
| - Coffee Break: 3:00 PM - 3:15 PM - | | | |
| Session 2: 3:15 PM – 4:30 PM | | | |
| | Rudder Tower Room 404 | Rudder Tower Room 401 | Rudder Tower Room 410 |
| Theme | Landscape Ecology | Conservation & Management | Evolutionary Morphology |
| 3:15PM | T12. Can Woody Encroachment shift Soil Moisture Regimes? Inferences from South Texas Shishir Basant | T17. Protected Areas of Texas in Relation to Texas Reptiles John Weidler | T22. Fish assemblage convergence along stream environmental gradients: an intercontinental analysis Luke Bower |
| 3:30PM | T13. Variation in growth and physiological response of bottomland hardwood forests to hydro-climate change in South-Central Texas Ajinkya Deshpande | T18. A Herpetofauna Survey of Edith L. Moore Nature Sanctuary: an Urban Sanctuary West of Downtown Houston Dillon Jones | T23. Signal Evolution in a Genus of Weakly Electric Fish David Saenz |
| 3:45PM | T14. Assessing the relationship between leaf size and shape in African floras Aly Baumgartner | T19. An Undergraduate's Role in Creating New Technology for Avian Conservation Alaya Keane | T24. Exploring asymmetries in the relationship between body size and trophic level using a multi-trait approach Friedrich Keppeler |
| 4:00PM | T15. Bayesian and Classical Machine Learning Methods: A Comparison for Tree Species Classification with LiDAR Waveform Signatures Tan Zhou | T20. Eastern Monarch Butterfly Mortality from Roadkill during Fall Migration from Oklahoma to Mexico James Tracy | T25. Deep-time functional trait-environment relationships in snake communities. John Jacisin |
| 4:15PM | T16. The importance of within-patch heterogeneity for metapopulation dynamics | T21. Quantifying biological invasions of Chinese tallow in southeast United States | T26. Mate choice dynamics of early generation hybrids |

| | Emily Schultz | Samantha Heldman | Daniel Powell |
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| - Schedule of Student Talks - Friday, April 6 | | | |
| Session 1: 9:30 AM – 10:30 AM | | | |
| | Rudder Tower Room 404 | Rudder Tower Room 401 | Rudder Tower Room 410 |
| Theme | Human Dimensions & Ecology | Foraging Ecology | Ecological Modeling and Methods |
| 9:30AM | T27. Affective Reasoning and Heuristics: Potential Impact on Perceived Risk of Prescribed Fire Implementation in the Southern Great Plains J.Kelly Hoffman | T31 .Are honey bees out for the gains? Honey bee pollen preferences between nutritionally distinct diets Pierre Lau | T35. Consistency of calcaneal gear ratio in <i>Odocoileus virginianus</i> (whitetail deer) and its potential as an ecometric in Artiodactyla communities Rachel Short |
| 9:45AM | T28. Cyanotoxins in your tap water? A nationwide analysis for Brazil Adriana Méndez-Jiménez | T32. The effect of habitat on the trophic position, diet breadth, and competitive interactions of an invasive ant (<i>Nylanderia fulva</i>) MacKenzie Kjeldgaard | T36. Mass Mortality Events in Relation to Carrion Ecology and Forensic Entomology: Emphasizing Taxonomic Resolution Abby Jones |
| 10:00AM | T29. The impact of co-circulating parasites on vector-borne transmission Andrew Golnar | T33. Using co-occurrence patterns to predict feeding habits of bull sharks, <i>Carcharhinus leucas</i> , in San Antonio Bay, Texas, USA Emy Cottrant | T37. An overview of common inaccuracies when estimating fertility rates for matrix population models Jasmin Diaz |
| 10:15AM | T30. Synergistic effects of in-hive miticides and agro-chemicals on honey bee (<i>Apis mellifera</i>) colony growth Alexandria Payne | T34.. Effects of mangrove encroachment on fiddler crab diets: an assessment of preference and food quality Janelle Goeke | T38. Testing the Predictions of a Conceptual Model to Assess the Vulnerability of Tropical Mammals to Habitat Loss and Fragmentation Jordan Rogan |

Coffee Break 10:30 - 10:45

Session 2: 10:45 AM – 11:45 AM

| | Rudder Tower Room 404 | Rudder Tower Room 401 | Rudder Tower Room 410 |
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| Theme | Organism-Environment Interactions | Behavioral Ecology | Genetics and Physiology |
| 10:45AM | <p>T39. Effects of changing salinities on the estuarine nursery dynamics of a coastal predator, <i>Carcharhinus leucas</i></p> <p style="text-align: center;">Amanda Lofthus</p> | <p>T43. Mating behavior and reproductive success as a function of cheliped relations and color morphology in the Red swamp crayfish</p> <p style="text-align: center;">Hayden Hays</p> | <p>T46. Behavioral effects of juvenile hormone on the worker caste of the red imported fire ant, <i>Solenopsis invicta</i>.</p> <p style="text-align: center;">Franchesca Rodriguez</p> |
| 11:00AM | <p>T40. An evaluation of the contribution of climate to plant community composition in the Big Thicket National Preserve</p> <p style="text-align: center;">Louis Addae-Wireko</p> | <p>T44. Difference in pollen consumption between male and female blow flies</p> <p style="text-align: center;">Betty Hernandez</p> | <p>T47. Fungal Seed Treatment Enhances Defensive Volatile Responses to Herbivory in Cotton</p> <p style="text-align: center;">Christine Madamba</p> |
| 11:15AM | <p>T41. Effects of Habitat Complexity on Estuarine Environments</p> <p style="text-align: center;">Mallika Beach-Mehrotra</p> | <p>T45. Effects of Fungal Endophytes on Olfactory Responses of Stink Bugs</p> <p style="text-align: center;">Zoey Kramer</p> | <p>T48. The molecular basis of locust phase polyphenism in a phylogenetic framework</p> <p style="text-align: center;">Bert Foquet</p> |
| 11:30AM | <p>T42. Spatiotemporal patterns of larval amphibians along environmental gradients in pond microhabitats in East Texas</p> <p style="text-align: center;">Clay Laughrey</p> | | |

**- Break 11:45 AM - 12:00 PM
POSTER SESSION 12:00 PM – 1:30 PM -**

Poster Session - Rudder Tower Room Exhibit Hall - 12:00 PM – 1:30 PM

| Poster # | Classification | Poster Title | Author |
|-----------------|-----------------------|---|----------------------|
| 1 | Graduate | Soil $\delta^{15}\text{N}$ values indicate changes in the N cycle of a subtropical savanna | Yong Zhou |
| 2 | Graduate | Spatial pattern of drought-induced tree mortality and canopy opening from mixed forest patches in Memorial Park, Houston Texas | Xavier Armando Jaime |
| 3 | Graduate | Forest Health and Oak Regeneration Potentials 12-years After Prescribed Fires in Oak-Hickory Stands in the Ozark National Forest AR | Mason Danheim |
| 4 | Graduate | Growth and Survival of West Gulf Coast Pines Across Varying Soils in East Texas | Jamie Hooker |
| 5 | Graduate | Food web and functional trait community structure in pine forests along a land-use gradient | Connor Adams |
| 6 | Graduate | Fish assemblages associated with macrophyte patches in lakes of Guatemala | Yasmin Quintana |
| 7 | Undergraduate | Simulated Impacts of the Deepwater Horizon Oil Spill on Loggerhead Sea Turtle | Madeline Jones |
| 8 | Undergraduate | Simulated population trends of bottlenose dolphin with exposure to morbillivirus following the Deepwater Horizon oil spill | Annie Montgomery |
| 9 | Undergraduate | A stage-based population model for Florida manatee: Potential impacts of anthropogenic and catastrophic events | Katherine Carbajal |
| 10 | Undergraduate | Interspecific Variation in Activity Level of Larval Anurans: Implications for their Distribution Along the Hydroperiod Gradient | Nicholas Schiwitz |
| 11 | Undergraduate | Fourteen Years of Monitoring Birdlife at the Gus Engeling Wildlife Management Area, Anderson County, Texas | Curtis Daugherty |
| 12 | Undergraduate | Influence of Forest Structure and Site Characteristics on Hardwood Regeneration Occurrence in Open Shortleaf Pine Woodlands | Landon Emmert |
| 13 | Undergraduate | Does the presence of a female trait have an effect on aggressiveness in male freshwater fish, <i>Xiphophorus birchmanni</i> ? | Marina Hawkins |
| 14 | Undergraduate | Experimental Assessments on Wildlife Entanglement in Erosion Control Products | Sarah Ebert |
| 15 | Undergraduate | Temporal variation in population structure of Western Mosquito Fish (<i>Gambusia affinis</i>) in an East Texas Wetland | Kelsey Kralman |
| 16 | Undergraduate | Tail pigmentation in <i>Acris blanchardi</i> tadpoles along an environmental pond gradient | Wendi Alvarado |

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| 17 | Undergraduate | Herpetofaunal Utilization of Texas Pocket Gopher (<i>Geomys personatus</i>) Mounds under Varying Grazing Regimes in the South Texas Sand Sheet | Timothy Johnson |
| 18 | Undergraduate | The effect of macronutrient intake on gossypol susceptibility in <i>Helicoverpa zea</i> (Lepidoptera: Noctuidae) | Benjamin Thomas |
| 19 | Undergraduate | Modeling the effect of synthetic estrogen, 17 α -ethinylestradiol, on fountain darter population dynamics | Jennifer Borski |
| 20 | Graduate | Prescribed Fire Education in the Southern Great Plains: Challenges and Opportunities | Thomas McDaniel |
| 21 | Undergraduate | Mapping the Invasion trend of Japanese Honeysuckle, <i>Lonicera japonica</i> , in Southeast United States | Zak Derouen |
| 22 | Undergraduate | Geographic and Ecological Associations of Three Species of Texas Freshwater Turtles | Travis Doggett |
| 23 | Graduate | Estimating mortality (Z) of fish in data poor fisheries using Lane Snapper as an example | Liliana Sierra Castillo |
| 24 | Graduate | Fish community structure associated with artificial reefs in the northwest Gulf of Mexico | Jeffrey Plumlee |
| 25 | Graduate | Exploring the Distribution of <i>Peromyscus maniculatus</i> in south Texas | Leila Siciliano-Martina |
| 26 | Graduate | Preliminary analysis of brown titi monkey (<i>Callicebus brunneus</i>) group density in an expanding agricultural front of southeastern Peru | Allison Collins |
| 27 | Graduate | Correlating Body Condition and Habitat Management of Wintering Duck Populations in Texas Wetlands | Allison Guggenheimer |
| 28 | Graduate | Increasing survival of wild macaw chicks using foster parents | Gabriela Vigo Trauco |