

## - 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
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>T9. 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. A multiple regression model to predict phases of <i>Schistocerca piceifrons</i></p> <p style="text-align: center;">Drew Little</p>	<p>T10. 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. Effects of vegetation type on <i>Callinectes sapidus</i> predation success and predator behavior</p> <p style="text-align: center;">Rachael Glazner</p>	<p>T11. 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 style="text-align: center;">Carsten Grupstra</p>	<p>T8. Vertebral chemistry of juvenile bull sharks in the northwestern Gulf of Mexico</p> <p style="text-align: center;">Thomas TinHan</p>	<p>T12. Brain gene expression of queen fire ants</p> <p style="text-align: center;">Travis Calkins</p>

**- Coffee Break: 3:00 PM - 3:15 PM -**

**Session 2: 3:15 PM – 4:30 PM**

	<b>Rudder Tower Room 404</b>	<b>Rudder Tower Room 401</b>	<b>Rudder Tower Room 410</b>
<b>Theme</b>	<b>Landscape Ecology</b>	<b>Conservation &amp; Management</b>	<b>Evolutionary Morphology</b>
3:15PM	T13. Can Woody Encroachment shift Soil Moisture Regimes? Inferences from South Texas  Shishir Basant	T18. Protected Areas of Texas in Relation to Texas Reptiles  John Weidler	T23. Fish assemblage convergence along stream environmental gradients: an intercontinental analysis  Luke Bower
3:30PM	T14. Variation in growth and physiological response of bottomland hardwood forests to hydro-climate change in South-Central Texas  Ajinkya Deshpande	T19. A Herpetofauna Survey of Edith L. Moore Nature Sanctuary: an Urban Sanctuary West of Downtown Houston  Dillon Jones	T24. Signal Evolution in a Genus of Weakly Electric Fish  David Saenz
3:45PM	T15. Assessing the relationship between leaf size and shape in African floras  Aly Baumgartner	T20. An Undergraduate's Role in Creating New Technology for Avian Conservation  Alaya Keane	T25. Exploring asymmetries in the relationship between body size and trophic level using a multi-trait approach  Friedrich Keppeler
4:00PM	T16. Bayesian and Classical Machine Learning Methods: A Comparison for Tree Species Classification with LiDAR Waveform Signatures  Tan Zhou	T21. Eastern Monarch Butterfly Mortality from Roadkill during Fall Migration from Oklahoma to Mexico  James Tracy	T26. Deep-time functional trait-environment relationships in snake communities.  John Jacisin
4:15PM	T17. The importance of within-patch heterogeneity for metapopulation dynamics  Emily Schultz	T22. Quantifying biological invasions of Chinese tallow in southeast United States  Samantha Heldman	T27. Mate choice dynamics of early generation hybrids  Daniel Powell

## - 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	<p>T28. Affective Reasoning and Heuristics: Potential Impact on Perceived Risk of Prescribed Fire Implementation in the Southern Great Plains</p> <p style="text-align: center;">J.Kelly Hoffman</p>	<p>T32 .Are honey bees out for the gains? Honey bee pollen preferences between nutritionally distinct diets</p> <p style="text-align: center;">Pierre Lau</p>	<p>T36. Consistency of calcaneal gear ratio in <i>Odocoileus virginianus</i> (whitetail deer) and its potential as an ecometric in Artiodactyla communities</p> <p style="text-align: center;">Rachel Short</p>
9:45AM	<p>T29. Cyanotoxins in your tap water? A nationwide analysis for Brazil</p> <p style="text-align: center;">Adriana Méndez-Jiménez</p>	<p>T33. The effect of habitat on the trophic position, diet breadth, and competitive interactions of an invasive ant (<i>Nylanderia fulva</i>)</p> <p style="text-align: center;">MacKenzie Kjeldgaard</p>	<p>T37. Mass Mortality Events in Relation to Carrion Ecology and Forensic Entomology: Emphasizing Taxonomic Resolution</p> <p style="text-align: center;">Abby Jones</p>
10:00AM	<p>T30. The impact of co-circulating parasites on vector-borne transmission</p> <p style="text-align: center;">Andrew Golnar</p>	<p>T34. Using co-occurrence patterns to predict feeding habits of bull sharks, <i>Carcharhinus leucas</i>, in San Antonio Bay, Texas, USA</p> <p style="text-align: center;">Emy Cottrant</p>	<p>T38. An overview of common inaccuracies when estimating fertility rates for matrix population models</p> <p style="text-align: center;">Jasmin Diaz</p>
10:15AM	<p>T31. Synergistic effects of in-hive miticides and agro-chemicals on honey bee (<i>Apis mellifera</i>) colony growth</p> <p style="text-align: center;">Alexandria Payne</p>	<p>T35. Effects of mangrove encroachment on fiddler crab diets: an assessment of preference and food quality</p> <p style="text-align: center;">Janelle Goeke</p>	<p>T39. Testing the Predictions of a Conceptual Model to Assess the Vulnerability of Tropical Mammals to Habitat Loss and Fragmentation</p> <p style="text-align: center;">Jordan Rogan</p>

**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
Theme	Organism-Environment Interactions	Behavioral Ecology	Genetics and Physiology
10:45AM	<p>T40. 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>T44. 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>T47. 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>T41. 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>T45. Difference in pollen consumption between male and female blow flies</p> <p style="text-align: center;">Betty Hernandez</p>	<p>T48. Fungal Seed Treatment Enhances Defensive Volatile Responses to Herbivory in Cotton</p> <p style="text-align: center;">Christine Madamba</p>
11:15AM	<p>T42. Effects of Habitat Complexity on Estuarine Environments</p> <p style="text-align: center;">Mallika Beach-Mehrotra</p>	<p>T46. Effects of Fungal Endophytes on Olfactory Responses of Stink Bugs</p> <p style="text-align: center;">Zoey Kramer</p>	<p>T49. The molecular basis of locust phase polyphenism in a phylogenetic framework</p> <p style="text-align: center;">Bert Foquet</p>
11:30AM	<p>T43. 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**

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

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