

- Schedule of Student Talks – Friday, March 24-

Session 1: 9:00 AM – 10:00 AM

	Rudder Tower Room 404	Rudder Tower Room 401	Rudder Tower Room 410
Theme	Animal Behavior	Agricultural Systems	Biology
9:00AM	<p>T1. Predator diet effects on prey defensive responses: A review of the field and case study in the eastern oyster <i>Crassostrea virginica</i></p> <p style="text-align: center;">Avery Scherer</p>	<p>T5. Characterization of the Sugarcane Aphid Microbiome</p> <p style="text-align: center;">Jocelyn Holt</p>	<p>T9. The effects of soilborne pathogens on the colony structure of the eastern subterranean termite</p> <p style="text-align: center;">Carlos Agüero</p>
9:15AM	<p>T2. Density-dependent phenotypic plasticity in <i>Schistocerca lineata</i> Scudder, 1899 (Orthoptera: Acrididae)</p> <p style="text-align: center;">Shelby Kilpatrick</p>	<p>T6. Private Land Management: Preserving the Beauty of America Landscapes</p> <p style="text-align: center;">Evgenia Spears</p>	<p>T10. Don't Be Fooled By Tick Saliva</p> <p style="text-align: center;">Jalyn Golden</p>
9:30AM	<p>T3. Perturbation of the chemical environment interferes with conspecific mate preference in <i>Xiphophorus</i></p> <p style="text-align: center;">Chris Holland</p>	<p>T7. Nutrition can alter the susceptibility of <i>Helicoverpa</i> species to Bt toxins</p> <p style="text-align: center;">Ashley Tessnow</p>	<p>T11. A Comparative Investigation of Sodium Iodide Symporter (NIS) Expression In Neural Tissues Of Teleost Fish</p> <p style="text-align: center;">Nick Holloway</p>
9:45AM	<p>T4. Behavioral consequences of maternal deprivation in captive giraffes (<i>Giraffa camelopardalis</i>)</p> <p style="text-align: center;">Leila Siciliano Martina</p>	<p>T8. Boll weevil (<i>Anthonomus grandis</i>) population genomics as a tool for monitoring and management</p> <p style="text-align: center;">Tyler Raszick</p>	<p>T12. Egg carotenoids benefit both offspring and maternal oxidative state</p> <p style="text-align: center;">Beth Reinke</p>

- Coffee Break: 10:00 AM - 10:15 AM -

Session 2: 10:15 AM – 11:15 AM

	Rudder Tower Room 404	Rudder Tower Room 401	Rudder Tower Room 410
Theme	Environmental Flux	Methods in Ecology	Impacts of Disturbance

10:15AM	T13. Ecohydrology of dendritic patterns of brush country in South Texas Shishir Basant	T17. The Potential of Snake Vertebrae and Ribs in Ecometric Studies John Jacisin	T21. The habitat of fire: using species distribution models for predicting fire occurrence Chase Brooke
10:30AM	T14. Does stand structure control treeline ecotone of the Nepal Himalaya? Parveen Chhetri	T18. Disturbance assessment of using portable unmanned aerial systems (UAS) to survey nesting waterbirds Jared Barr	T22. Trophic condition of Madu Ganga Estuary, a Ramsar wetland in Sri Lanka TMSDG Silva
10:45AM	T15. Determining thermal tolerances of freshwater mussels in Texas Jennifer Morton	T19. Examining Biases in Herpetofaunal Monitoring via Choice of Cover Objects Shashwat Sirsi	T23. Dehydration stress affects <i>Solanum lycopersicum</i> susceptibility to <i>Bactericera cockerelli</i> colonization. Ordorm Huot
11:00AM	T16. Morphology in The Big Thicket Emily Spears	T20. Comparison of filtering schemes in ecological niche modeling Adrian Castellanos	T24. How is tropical defaunation associated with changes in understory vegetation and macroinvertebrate communities, and how does this relate to changes in key ecosystem processes? Justine Lamperty

- Poster Session: 11:15 AM – 12:00 PM (Rudder Exhibit Hall) -

- Lunch & Continuing Poster Session: 12:00 PM – 1:00 PM (Rudder Exhibit Hall) -

Session 3: 1:00 PM – 2:00 PM

	Rudder Tower Room 404	Rudder Tower Room 401	Rudder Tower Room 410
Theme	Environmental Change and Shifting Ranges	Ecosystem Management	Conserving Biodiversity
1:00PM	T25. Modeling the relationship between body size and the sensitivity to habitat loss in wild bee communities Wei-Ting Lin	T29. Texas Rangeland Operations in the 21st Century Paul Goetze	T33. Reproductive Ecology of a Federally Threatened Texas Salamander with Implications on Conservation Efforts Zachary Adcock

1:15PM	T26. The mystery of the immature stages of <i>Ixodes scapularis</i> in the South: Where are they? Mackenzie Tietjen	T30. Policy Review: The Reclamation of Abandoned Mine Lands in the United States Gabriela Sosa	T34. Quantifying macaw nesting behaviors with robo egg data loggers Constance Woodman
1:30PM	T27. Vegetation and soil organic carbon dynamics in a subtropical savanna: Evidence from landscape-scale spatial patterns of $\delta^{13}C$ along a soil profile Yong Zhou	T31. Examining the potential use of Facebook as an educational tool in Texas State Parks Jieun Song	T35. Reproductive Life History and Host Fish Selectivity of <i>Fusconaia mitchelli</i> , <i>Quadrula aurea</i> , and <i>Quadrula petrina</i> Jack Dudding
1:45PM	T28. When trees practice abstinence: how intraspecific variation in flowering affects patterns of relative abundance in a tropical tree community Andrea Drager	T32. The effects of pesticides on honey bee (<i>Apis mellifera</i> , L.) queen reproductive physiology and behavior Elizabeth Walsh	T36. Life on the Edge: Range-wide Habitat Association of the Texas Kangaroo Rat. Silas Ott

Session 4: 2:00 PM – 3:30 PM

	Rudder Tower Room 404	Rudder Tower Room 401	Rudder Tower Room 410
Theme	Human and Natural Systems	Community Ecology	Genetics in Conservation
2:00PM	T37. Authentic inquiries in large ecology classes using Christmas Bird Count, National Land Cover data (NLCD) and the impact on student learning and attitudes Xavier Jaime	T42. Fish assemblage convergence along environmental gradients and microhabitats in small freshwater streams Luke Bower	T48. Conservation genetics of the critically endangered Kemp's ridley sea turtle (<i>Lepidochelys kempii</i>): a temporal genetic assessment Xochitl De La Rosa
2:15PM	T38. Human Wildlife Conflict – Case study of the Royal Bengal Tiger of Sunderban Amit Ghoshal	T43. Unraveling the causes of individual niche specialization in ecologically similar species Raul Costa-Pereira	T49.A preliminary test of an approved USGS sampling protocol for environmental DNA (eDNA) sampling, but applied to detection of the endangered Houston Toad (<i>Bufo houstonensis</i>) William Keitt
2:30PM	T39. Biodiversity in the Built Environment	T44. A comparison of angiosperm and gymnosperm wood decay in loblolly pine dominated ecosystems in the southern	T50. Looks can be deceiving: misidentification rates of sex for <i>Lampsilis teres</i> , yellow sandshell, and its implications for mussel conservation.

	Justin Patton	United States Marco Minor	Megan Hess
2:45PM	T40. A Socio-psychological Perspective on Tolerance for Predatory Wildlife – A Case Study in South Africa Benjamin Ghasemi	T45. Origins of Microbes in Iron Oxide-rich Mats at Lō'ihi Seamount and Seamounts Along the Southern Marianas Trough Kecen Zhou	T51. The Florida manatee (<i>Trichechus manatus latirostris</i>) T cell receptor inter-chain and inter-species diversity. Breanna Breaux
3:00PM	T41. Campesino Hunting and Conservation in the Anthropocene: A Review Michael Petriello	T46. Chytridiomycosis evaluation in two sympatric treefrogs, <i>Hyla cinerea</i> and <i>Hyla versicolor</i> in North America. Andrea Villamizar-Gomez	T52. Challenging the “evolutionary museum” concept using phylogeographic patterns from 70 avian Afro-tropical forest species Jerry Huntley
3:15PM	-	T47. How abiotic and biotic factors shape the coexistence of invasive species Yovana Marinkovic	-

- AWARD CEREMONY 4:00 PM – 4:30 PM (Room 401) -

Poster Session - Rudder Tower Room Exhibit Hall - 11:15 AM – 1:00 PM			
Poster #	Classification	Poster Title	Author
1	Graduate	Ecology of <i>Trypanosoma cruzi</i> at facilities housing naturally infected non-human primates in Texas, USA.	Carolyn Hodo
2	Graduate	Deep roots and the subterranean: beginning to move from phenomenology to mechanisms underlying access to groundwater by trees	Rachel Roenfeldt
3	Undergraduate	Potential Protection of <i>Drosophila hydei</i> against Parasitic Wasps by Spiroplasma Bacteria	Sarah Gheida
4	Graduate	Potential effects of synthetic estrogen in the environment on amphibian populations: Simulation of 17 α -ethynylestradiol effects on populations of <i>Rana pipiens</i>	Sydney Weyand
5	Graduate	Using an Unmanned Aerial Vehicle as a Novel Approach to Survey Wading Birds in Coastal Wetland Habitats	Rachael Glazner
6	Undergraduate	Species co-occurrence patterns along environmental gradients in pond	Clay Laughrey

		microhabitats	
7	Undergraduate	Functional distance and establishment of non-native species with complex life cycles	Kelsey Kralman
8	Undergraduate	How abiotic and biotic factors shape the coexistence of invasive species	Katherine Carbajal
9	Undergraduate	Simulated effects of Indo-Pacific lionfish (<i>Pterois volitans</i> and <i>P. miles</i>) invasions on parrotfish (Scaridae family) populations on coral reefs in the Caribbean	Jasmin Diaz-Lopez, Marissa Ortega, Paola Camposec
10	Undergraduate	The effects of moon phase on diurnal activity of east Texas snakes	Timothy Johnson
11	Undergraduate	An Investigation of Substrate Scraping Behavior in Three Species of <i>Sicydiine Gobies</i> Inhabiting Freshwater Streams on Dominica, West Indies	Wendy Diaz
12	Undergraduate	Using PVC pipes as a conservation tool for green tree frogs (<i>Hyla cinerea</i>) after wildfire in central Texas	Kaitlyn Forks
13	Graduate	Simulated Effects of Juvenile Survival on Adult Population Dynamics of the Houston Toad (<i>Bufo houstonensis</i>)	Rebecca Aden
14	Graduate	Stage-structured matrix analyses evaluating the post-2010 population trend of Kemp's ridley sea turtles in the Gulf of Mexico: Four processes of investigation	Amanda Kocmoud
15	Undergraduate	A Top Predator Returns: Effects of the Eastern Indigo Snake (<i>Drymarchon couperi</i>) on Herpetological Communities in Southern Alabama	Hannah Gerke
16	Undergraduate	Neotropical Backbone: Conservation Assessment of Latin America's Spiny Rats	Alondrita Barron
17	Undergraduate	EVALUATING THE EFFECT OF SYNTHETIC ESTROGEN (17 α -ETHINYLESTRADIOL) CONTAMINATION UPON FOUNTAIN DARTER (<i>ETHEOSTOMA FONTICOLA</i>) POPULATION	Andrew Richardson
18	Undergraduate	Conservation of Mexican Long-nosed Bats Along the Migration Route and Surrounding Maternity Caves	Brittany Stamps
19	Graduate	The effects of global climate change on monarch butterfly fitness	Matthew Faldyn
20	Undergraduate	The Growth pattern of <i>Abies spectabilis</i> tree-rings from Dhorpatan Hunting Reserve, Nepal	Lillian McAfee
21	Undergraduate	Proactive management of invasive plant species: influencing factors and implications for mitigation of an invasive grass in forestlands of Tennessee	Lela Culpepper
22	Graduate	A reassessment of the systematics and biogeographic history of three wren species (genus <i>Troglodytes</i>)	Katrina Keith
23	Undergraduate	Evaluating potential effects of Antarctic ice-shelf retreat on blue whale populations: a simulation model of interactions among sea ice, Antarctic krill, and blue whales	Jennifer Borski
24	Graduate	Natural variation and molecular basis of pigment-cell polymorphism in swordtails (Teleostei: Xiphophorus)	Mateo Garci
25	Graduate	The Relationship Between Intertidal Forested Wetlands and Crabs: Can Modern Mangrove Systems Be Used as Analogues to Past Environments?	Michelle Chrpa
26	Undergraduate	Evolutionary climbing of the world's highest coastal range	Kelsey Anthony
27	Graduate	Phylogenetic diversity of the genus ' <i>Barbus</i> ' (cyprinidae) in the Lake Victoria	Violet Ndeda

		drainage system in Kenya	
28	Graduate	Drought-induced gene expression changes in tissues of loblolly pine clones	Jingjia Li
29	Graduate	PHYLOGEOGRAPHIC ASSESSMENT OF THE HEERMANN'S KANGAROO RAT (<i>DIPODOMYS HEERMANNI</i>)	Bridgett Downs
30	Graduate	Resolving Questionable Museum Records of the Louisiana Pinsnake (<i>Pituophis ruthveni</i>)	Connor Adams
31	Graduate	Patterns of Land Cover Change Associated with Urbanization Process in Edwards Plateau, Texas	Zheng Li
32	Undergraduate	Diet Composition of Bobcats in the Presence of Livestock Protection Dogs on the Edwards Plateau of Texas	Jessica Sannwaldt
33	Graduate	Livestock grazing and biodiversity in Huascarán National Park, Peru	Jessica Gilbert
34	Undergraduate	Simulated effects of poaching on the endangered Hawksbill Sea Turtle (<i>Eretmochelys imbricata</i>) population dynamics	Cinnamon Laxton
35	Graduate	Dynamics of an artisanal fishery in Río Dulce National Park, Guatemala	Yasmin Quintana
36	Graduate	Indigenous Sustainability of an Artisan Heritage Crafts Village: Raghurajpur, India	Rohit Kumar
37	Graduate	Divulging Dung: How Paleofeces Can Help Us Understand Human Ecology Through Time	Katelyn McDonough
38	Graduate	Impact of Cover Crops on Soil Microbial Populations and Mycorrhizal Colonization in Dryland Cotton	Onder Ozal
39	Graduate	A Framework for Fodder Production Suitability Mapping to Improve Small Scale Irrigation Development in Ethiopia.	Sintayehu Teshome