2019 Ecological Integration Symposium

April 4th and 5th at Rudder Tower and Theat

Come to this **free** two-day event, with presentations by prestigious plenary speakers from around the world and students like YOU.

All afternoon activities take place in room 301 unless otherwise noted

Thursday April 4th

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8:30-Throughout 9-9:15am 9:15-10:15am	Registration Welcoming Remarks Graduate Student Oral Presentations	407 301 401,404.410
10:15-10:30am 10:30-11:45am 11:45-1pm 1-2pm	Coffee Break Graduate Student Oral Presentations Lunch Dr. Ray Hillborn "The environmental cost of dinner?"	401,404,410 On your own
2-3pm 3-4pm 4-5pm 5:30-6:30pm	Dr. Laura Kubatko "Estimating species-level phylogenetic relationships with site pattern frequer Dr. David Hillis "Applications of the Tree of Life" Speaker Panel: What's Past is Prologue: The Future of Ecology and Evolutionary Bio Happy hour Rough Draught	

Friday April 5th

8am	Breakfast (Preregistration Required to Attend)	Rudder Complex
8:30-Throughout	Registration	301
9-10am	Graduate Student Oral Presentations	401,404.410
10-10:15am	Coffee Break	
10:15-11:45am	Graduate Student Oral Presentations	401,404,410
11:45-1pm	Lunch	On your own
1-2pm	Student Poster Session	Rudder Complex
2-3pm	Dr. Michelle Tseng "The effect of species interactions on adaptation to	the thermal environment"
3-4pm	Dr. Amy Angert TBA	
4-5pm	Dr. Iain Couzin "Collective sensing and decision-making in	animal groups"
5-5:30pm	Awards and Closing Remarks	
6pm	Social (Food, Beer, and Wine Provided)	Lee Fitzgerald's Home

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ECOLOGY and EVOLUTIONARY BIOLOGY

RECREATION, PARK & TOURISM SCIENCES





DEPARTMENT OF ECOSYSTEM SCIENCE AND MANAGEMENT

Student Presentations

Tegration Symposium

Vertebrate Scavenger Access to Mass

Mortality Events Impact on Associated

Arthropod Community Structure

Thursday April 4th

Mg/Ca Ratios of Echinoderm

Ossicles in Pennsylvanian Coal Balls

11:15am

Time	Room 401 Graduate Student Presentations	Room 404 Graduate Student Presentations	Room 410 Graduate Student Presentations	
	Adriana Mendez-Jimenez	Kristin Hamons	Adrian Castellanos	
9:15am	Does wealth affect the quality of your drinking water? The relationship	ТВА	One squirrel? Eight squirrel? Orange squirrel? Gray squirrel?: Biogeography of <i>Sciurus variegatoides</i>	
	John Jacisin	Michael Jochum	Paul Goetze	
9:30am	Snake vertebral ecometrics: towards a better understanding of community	Host mediated microbiome drought tolerance in the wheat rhizosphere	Texas High Plains Beef Cattle Production in Future Climates	
	Benjamin Ghasemi	Rachel Adams	Pedro Leite	
9:45am	Trust and Emotions as the Main Drivers of Support for Large Carnivores Recovery in the Absence of Real Threats	Water and nutrient acquisition strategies in the tropical forests of Quintana Roo, Mexico	The effect of juniper trees on the infiltration capacity of rangeland soils in Sonora, TX	
	Constance Lin	Maureen Hayden	Erin Buchholtz	
10:00am	TBA	Thermal preference in the smoothskin octopus (<i>Muusoctopus leioderma</i>)	Functional connectivity comparisons and considerations for the African elephant	
10:15am	Break	Break	Break	
	Faith Hardin	Raven Blakeway	Lauren Redmore	
10:30am	The influence of golden-fronted woodpeckers as ecosystem engineers on the local avian community	Consumer-driven depletion of The northern diamondback terrapin in Chesapeake Bay, 1840-1980	Adapting to the elephant: Gender and firewood harvest in the Okavango Delta	
	J. Kelly Hoffman	Hayden Hays	Amanda Beckman	
10:45am	Heuristics and Fire: Decision-Making Processes and Prescribed Fire Implementation in the Southern Great Plains	The effect of cheliped function on male mating success in the Louisiana crayfish, <i>Procambarus clarkia</i>	Characteristics of male lance-tailed manakin social networks and their impact on future	
	Paloma Cuello Del Pozo	Benjamin Thomas	Andrea Pilar Drager	
11:00am	Stable isotope signals as proxy for mobility amongst ancient Canary aboriginals: creating a strontium and oxygen baseline for Gran Canaria	Improving Gene Editing Techniques with CRISPR Cas9 in the Yellow Fever Mosquito, <i>Aedes</i> aegypti (Diptera: Culicidae)	Effects of floral neighborhoods on visitation and pollination outcomes among co-occurring <i>Cola</i> spp. at different densities	
	Michelle Chrpa	Ali Abdulameer Al-Badran	Samantha Sawyer	

The adverse effects of

phenylpyrazole fipronil on juvenile

white shrimp Litopenaeus setiferus

Student Presentations

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Friday April 5th

Time	Room 401 Graduate Student Presentations	Room 404 Undergraduate Student Presentations	Room 410 Graduate Student Presentations
	Sierra Cagle		Lela Culpepper
9:00am	Lakes, Plankton, and Climate Change: A modeling story told in pictures		Soil characteristics and microbial responses to different fire intensities
	Varuneswara Panyam		Mackenzie Kjeldgaard
9:15am	Designing Power Grids to Mimic Food Webs		Sugar is an ant's best friend?: Testing food web theory predictions in invasive ants
	Xavier Jaime	Alexandra Bishop	Mickey Parker
9:30am	Exploring utilities of spectral diversity for representing plant diversity and its spatial pattern	Using Data Surveillance to Understand the Rising Prevalence of Tick-borne infections	Preliminary Results from a Translocation of Dunes Sagebrush Lizards (<i>Sceloporus arenicolus</i>) in West Texas
	Leila Siciliano Martina	Charlie Webb	Amanda Lofthus
9:45am	Unintended morphological effects of captivity in Mexican wolves (<i>Canis lupus baileyi</i>)	The effects of pesticides on honey bee (<i>Apis mellifera</i>) queen mating frequency	Environmental conditions influencing spatial variability in predation risk to juvenile sharks
10:00am	Break	Break	Break
	Rachel Short	Drew Little	Bert Foquet
10:15am	Limb morphology of large mammal communities as an environmental predictor	TBA	Comparing behavioral, morphological, and molecular reaction norms of locust phase polyphenism
	Ashley Tessnow	Carla Deloera	Friedrich Keppeler
10:30am	Population genomic insights into Spodoptera frugiperda migration and host	Taxonomy and diversity of little- known South African grasshopper genus <i>Eremidium</i>	Weak trophic level-body size relationship of fishes depends on their functional
	Edwin Lopez Delgado	Aaron Rose	Crystal Wright
10:45am	Fish functional diversity changes along the longitudinal gradient of a species-rich tropical	Calcium hydroxide may promote hybridization in a freshwater fish	Fecundity Compensation: Possible in the Sugarcane Aphid?
	Gaston Jofre Rodriguez	Omar Khan	Hannah Justen
11:00am	Signatures of introgression across natural swordtail hybrid zones	The effect of Pesticides on Honey Bee (<i>Apis Mellifera</i>) Queen Reproductive Physiology	Evidence of extrinsic postzygotic isolation in a North American songbird
	Luke Bower	Sarah Ebert	Connor Adams
11:15am	Widespread convergence in stream fishes	Correlates of snake entanglement in erosion control blankets	Community organization of a snake guild in a shortleaf pine

Poster Presentations

Friday April 5th

Station	Name	Title
1	Adam Baker	Effects of Climate Change on <i>Anaplasma phagocytophilum</i> infection risk in Minnesota and Wisconsin from 2005 to 2015
2	Ajinkya Deshpande	Prolonged inundation affects water-use strategies in bottomland oaks
3	Alexis Pence	Cattle Grazing Impacts on Small Mammal Populations in South Texas
4	Allison Guggenheimer	Correlating Body Condition and Habitat Management of Wintering Duck Populations in Texas Wetlands
5	Ashish Nerlekar	Old-growth grasslands and savannas worldwide are more species-rich than their secondary counterparts
6	Blake Elkins	
7	Chase Corrington	Spot-on: Using melanistic spots to identify individual Shoal Chub
8	Chelsea Veloso	Niche segregation among sunfishes (<i>Lepomis spp.</i>) in an East Texas urban stream
9	Connor Brown	Spatial and temporal variation in benthic macroinvertebrate
10	Danielle DeChellis	Revisiting The Coastal Marsh Grass Assemblages Of Anahuac National Wildlife Refuge:
11	David Saenz	Evolution of sensory receptor organization in weakly electric fishes
12	Dylan Thompson	Assessing the functional role of skinks (Scincella lateralis) in forest food webs
13	Edan Morag	Fish taxonomic and functional diversity in an East Texas urban stream
14	Elyssa Garza	Integrating multiple genomic datasets to understand stress adaptation
15	Fernanda Montes	Analysis of genetic diversity in pataxte and cacao
16	Fiala Bumpers	A Spatial and Temporal Analysis of Texas Bays and Marine Species
17	Hailey Hester	Advertisement Calls for Eleven Anuran Species from the Bolivian Gran Chaco
18	James Alfieri	Divergence times among hybridizing gamefowl
19	James West	Distribution and Biodiversity of Head Morphology in Horned Lizards
20	Jesse Rodrigo Rios Rodriguez	Population diversity and genetic structure of blackfin tuna
21	Poster Withdrawn	
22	Jocelyn Holt	Characterization of the Sugarcane Aphid Microbiota
23	Kasey Jobe	Caudates as prey: Predator diversity and size-relationship patterns
24	Katrina Keith	Preliminary Investigation of Toll-Like Receptor 1B in Chihuahuan Desert Ecoregion Species of Interest
25	Kelly J. Wallace	Neuromolecular underpinnings of social competence and cognition in dynamic communities of a highly social cichlid fish
26	Kenith Meissner	Biomedical engineering
27	Krista Ward	Flight Initiation Distance in Fox Squirrels (Sciurus niger) Varies with Threat Assessment
28	Lois-Anna Voelkel	The Conservation Action for Xenomys nelsoni (Magdalena Wood Rat)
29	Marluci Muller Rebelato	Seasonal variation in trophic structure of amphibians and snakes of a Ramsar
30	Miranda Peterson and Zakary Derouen	Determinants of Tubastraea coccinea invasion and likelihood of further
31	Negar Yaryan	Evolutionary journey from the seashore to the world's highest coastal range
32	Pierre Lau	Everything's sweeter in Texas? A chemical and palynological analysis of honey in Texas
33	Richard Bovio	Early generation hybrid evolution in swordtails
34	Mason Bird	Yellow Fever Mosquito, Aedes aegypti (Diptera: Culicidae) Rearing Protocol
35	Samuel Neeley	Leaf destruction by melampus coffeus in basin and Fring Mangrove Swamps, Barnes Sound, Key Largo, FL
36	Scott Lakeram	Preliminary Analysis of Predation by Arthropods on Cordaites in Carboniferous Coal Balls
37	Stephanie Rodriguez	Sex differences in pollen consumption among blow flies (Diptera: Calliphoridae)
38	Ben Sloan	Yellow Fever Mosquito, Aeded aegypti (Diptera: Culcidae) Flower Color Preference
39	Crystal Alexander	Silvicultural systems in southern bottomland hardwoods: a review of avifauna community
40	Tofunmi Oladimeji	Population genetics of wild and cultured populations of the African bonytongue,
41	Sydney Jackson	Variation in Arthropod Community on a Prairie-Style Green Roof