





Warnell Graduate Student Symposium



Program Booklet

February 12th – February 14th 2020

Program at a Glance

Wednesday, February 12th

Poster Exhibition (Wednesday 1:00pm – Friday 1:00pm, Building 4 Atrium)
Poster Session & Reception (5:00pm – 7:00pm, Building 4 Atrium)

Thursday, February 13th

Bake Sale & Silent Auction (8:00am – 3:00pm, Building 2 Lobby)

Oral Presentations (8:30am – 2:15pm, Keadle Conference Room)

Keynote Presentation – Dr. Lincoln Larson (3:30pm – 4:30pm, Room 1-304)

Friday, February 14th

Bake Sale & Silent Auction (8:00am – 3:00pm, Building 2 Lobby) Oral Presentations (8:30am – 3:05pm, Keadle Conference Room) Awards Ceremony and Finale (5:00pm – 9:00pm, Flinchum's Phoenix)

2020 Symposium Committees:

Awards and Judging:

Chair: Holly Munro Omid Karami Corrie Navis

Finale:

Chair: Anil Koirala Omid Karami Luke Wilson Monica Harmon

Bake Sale:

Chair: Heather Gaya

Poster Session:

Chair: Holly Munro Omid Karami Srijana Baral

Silent Auction:

Chair: Lauren Carroll Heather Gaya Ben Thesing

Program and Abstracts:

Chair: Ben Thesing Danielle Bradke David Lee Haskins

Seminar and Symposium Speaker:

Chair: Heather Levy

2019 - 2020 Warnell Graduate Student Association Officers:

President: Heather Gaya
Vice President: Annie Paulukonis
Secretary: Melissa Paduani
Treasurer: Ben Thesing

Warnell Graduate Student Symposium Keynote Speaker

Lincoln Larson, PhD

Assistant Professor of Human Dimensions

North Carolina State University

February 13th, 2020 at 3:30pm in Warnell School of Forestry and Natural Resources room 1–304

"Understanding and enhancing public support for wildlife conservation"



Lincoln is an Assistant Professor of Human Dimensions in the Department of Parks, Recreation and Tourism Management within the College of Natural Resources at NC State University. He joined the faculty at NC State in January 2017 after 2 years as a faculty member in the PRTM Department at Clemson University, and he continues to serve the Clemson community as a scholar associated with the Clemson Institute for Parks. Before that, Lincoln worked as a research associate in the Human Dimensions Research Unit of the Department of Natural Resources at Cornell University, where he orchestrated and contributed to a variety of projects focused on human dimensions of natural resource management. Lincoln has a B.S. in Biology from Duke University and an M.S. and Ph.D. in Forest Resources (with a natural resources recreation and tourism emphasis) from the Warnell School of Forestry & Natural Resources at the University of Georgia.



Wednesday, February 12th

Poster Session and Reception

Building 4 Atrium 5:00 – 7:00pm Light refreshments will be provided.

1 Justin Beall An ecotourist by whose standards? Developing and testing the ecotourist

identification scale

2 Ing-Gin Chen Subcellular localization and functional characterization of an unusual

phylloquinone biosynthetic pathway in holoparasitic broomrapes

3 Ryan Grunert Assessment of larvicidal control methods on cyclopoid copepods for the

global Guinea Worm Eradication Program

4 Colton Meinecke Investigating emerging needle disease in commercially managed loblolly pine

5 Holly Munro Using satellite-derived environmental variables to predict southern pine

beetle numbers

6 Melissa Paduani The Ripple Effect Film Project: Youth Making Waves in Athens-Clarke County

7 Kentrell Richardson Small mammals in the Maritime Live Oak forest





Thursday, February 13th

Bake Sale and Silent Auction

Building 2 Lobby 8:00am – 3:00pm

Oral Presentations

Keadle Conference Room 8:30am – 2:15pm

Forestry 1

Moderator: Colton Meinecke (8:30 - 9:15), Laura Ramirez (9:15 - 10:00)

8:30	Rocio Gutierrez	Writing about and demonstrating "Sustainability" and "Sustainable Forest Management" in forest plans: A survey analysis
8:45	Hosne Ara Akter	Economics of intercropping loblolly pine and oil-seed crops for manufacturing bio-jet fuel in the southern United States
9:00	Shingo Obata	An estimation of growing stock volumes of forest stands in Georgia using all available time series Landsat imagery and FIA data
9:15	Mauricio Zapata	Modeling basal area growth after thinning – evaluating an alternative approach
9:30	Sameen Raut	An imaging approach to accurately quantify compression wood and wood to bark volume ratios in planted longleaf pines
9:45	BREAK	

Wildlife Management 1

Moderator: Allison Sheeks (10:30 - 11:15), David Haskins (11:15 - 12:15)

10:30 Cody Tisdale	Lead contamination differences between lead and copper coated lead shot
10:45 Sarah Webster red	Microclimate influences on selection of agricultural habitats by

wolves (Canis rufus) and coyotes (Canis latrans) during pup rearing

Wildlife Management 1 (continued)

Moderator: Allison Sheeks (10:30 - 11:15), David Haskins (11:15 - 12:15)

11:00 Annie Paulukonis	Assessing conservation prioritization schemes via species vulnerability to predicted habitat changes in Georgia's Coastal Plain
11:15 Adam Edge	Survival and cause-specific mortality of white-tailed deer fawns in the Southern Appalachian region of Georgia
11:30 Elizabeth Tuttle	Beneath the surface: A field technique for quantifying hyporheic flow path lengths and timescales in Piedmont streams
11:45 Cheyenne Yates	Space-use of white-tailed deer in the North Georgia mountains
12:00 Jordan Dyal	Development of an aerial survey sightability model for white-tailed deer (Odocoileus virginianus) in Florida

Human Dimensions of Wildlife

Moderator: Sagar Godar Chhetri (1:00 - 1:45), Jim Chapin (1:45 - 2:15)

1:00	Sagar Godar Chhetri	Forest land enrolled in the state preferential tax incentives program in Georgia: A case study from Oconee County
1:15	Noah Goyke	Exploring differences between farmers and non-farmers African American forest landowners in Georgia, United States
1:30	Justin Beall	What predicts ecotourism: Environmental values or symbolic conspicuous consumption?
1:45	Sarah Horsley	Impacts of iconic species toward communities, tourism, and conservation
2:00	Jacalyn Rosenberger	Using human dimensions research to guide deer management recommendations on public land in north Georgia

Keynote Presentation

Room 1-304 3:30 – 4:30pm

Dr. Lincoln Larson Understanding and enhancing public support for wildlife conservation

Friday, February 14th

Bake Sale and Silent Auction

Building 2 Lobby 8:00am – 3:00pm

Oral Presentations

Keadle Conference Room 8:30am – 3:05pm

Speed Talks ((Proposals)
Moderator: A	Angela Burrow

8:30	Ream Thomas	Energy dose thresholds for causing tree stem tissue mortality for certain south eastern functional groups
8:35	Krishna Sharma	Migratory butterfly habitat use of barrier islands in Georgia, USA
8:40	Jennifer McDaniel	Integrating tissue-specific mortality thresholds to predict fire-caused tree mortality
8:45	Crystal Bishop	Effects of post-hurricane management practices on root feeding beetles and their fungal symbionts
8:50	Jordan Youngmann	DNA metabarcoding of coyote (<i>Canis latrans</i>) scat to assess diet in South Carolina, USA
8:55	Heather Gaya	Modeling species interactions with spatial capture recapture models
Wildli	fe Management 2	

Wildlife Management 2

Moderator: Annie Paulukonis (9:15 - 10:00), Ben Thesing (10:00 - 11:00)

9:1	.5 Heather Levy	Red-cockaded Woodpecker cavities as potential ecological sinks for nesting avian kleptoparasites
9:3	O David Lee Haskins	Spatial distribution and bioaccumulation of mercury in brown watersnakes (<i>Nerodia taxispilota</i>) from the Savannah River
9:4	5 Amelia L. Russell	Evaluating stress in head-started gopher tortoises (<i>Gopherus</i> polyphemus)
10	:00 Will Lewis	Long-term demographic changes of Black-throated Blue Warblers (Setophaga caerulescens) from across the breeding range

Wildlife Management 2 (continued)			
10:15	Lindsay M Clontz	Using State-space models to explain behavioral state resource selection for wild pigs in the Southeast, USA	
10:30	Sarah Chinn	Parental investment strategies in a highly polytocous species: Maternal attributes and resource availability modulate litter size and sex ratio	
10:45	Chris Leaphart	Effects of prenatal methylmercury exposure on waterfowl hatchling phenotypic plasticity and survival	
<u>Fisheries</u> Moderator: Danielle Bradke			
11:15 in	Michael Baker	Comparing recruitment estimation methods for age-1 Atlantic Sturgeon	
""		Altamaha River, GA from 2008-2019	
11:30	Gina Alvarez	Using video surveys to identify habitat preferences of the gag grouper (Mycteropterca microlepus) in the eastern Gulf of Mexico	
11:45	Bryan Bozeman	Realism versus Utility: Evaluating the assumptions of a drift-foraging energetics model for stream fishes	
12:00	Brendan Dula	How did the threatened Gulf Sturgeon population in the Apalachicola River change in response to Hurricane Michael?	
12:15	Cortney Bunch	Side scan sonar as an effective tool for estimating Atlantic Sturgeon spawning run size	
Forestry 2 Moderator: Zachary Russell (12:45 - 1:30), Noah Goyke (1:30 - 2:30)			
Wioac	rator. Zaeriary Rasserr	(12.43 1.30), Noan Goyke (1.30 2.30)	
12:45	Ellie Fowler	Does canopy complexity influence physiological function and contribute to ecosystem resilience of old-growth longleaf pine (<i>Pinus palustris</i>)?	
1:00	Monica Harmon	Longleaf pine seedling physiology before and during a natural drought	
1:15	Jeff Hamilton	Timing Matters: Detecting the causal agent of laurel wilt disease in minutes instead of days with loop-mediated isothermal amplification (LAMP)	
1:30	BREAK		
1:45	Victoria Cassidy	Systemic Insecticide Suppression for the Nantucket Pine Tip Moth in Young Loblolly Pines	

Forestry 2 (continued)

2:00	Scott Oswald	Improving predicted for	est responses to global	change: Analyzing the role of
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carbon storage via optimal function and life history

2:15 Zhine Wang Plant phosphorus uptake in a P-limited soil environment

Speed Talks (Ongoing or completed research)

Moderator: Micah Miles

2:45 Zack Parker Characterizing the pheno	olic defense responses of loblolly pines (<i>Pinus</i>
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taeda) to root-infecting blue-stain fungi

2:50 Colton Meinecke Development of a rapid, field-capable molecular detection assay for pitch

canker

2:55 Laura Ramirez Modeling dominant height incorporating long-term responses to

Quintero silvicultural treatments

3:00 Zachary Wesner Preferences of captive white-tailed deer for species of oak acorns found in

Georgia

Awards Ceremony and Finale

Flinchum's Phoenix 5:00 – 9:00pm

Bake Sale and Silent Auction

Thursday, February 13th and Friday, February 14th 8:00am – 3:00pm in Building 2 Lobby

Come buy some tasty treats to fuel your day and bid on awesome items donated by fellow Warnellians and Athens companies!

Awards Ceremony and Finale

Friday, February 14th 5:00 – 9:00pm at Flinchum's Phoenix

Celebrate the end of another successful symposium with dinner and great company. Awards for student posters and presentations will be announced, so come out and show your support!







