

10th ANNUAL UNIVERSITY OF NORTH ALABAMA RESEARCH DAYS
STUDENT PRESENTATIONS SCHEDULE
APRIL 19 – 21, 2016

STUDENT ILLUSTRATED PAPER PRESENTATIONS

Guillot University Center Room 200

Tuesday, April 19 from 10:30 AM to 12:00 PM

STUDENT POSTER PRESENTATIONS

Guillot University Center Atrium

Tuesday, April 19 from 9:00 AM to 10:30 AM

Tuesday, April 19 from 11:00 AM to 12:20 PM

Tuesday, April 19 from 2:30 PM to 4:00 PM

THREE MINUTE THESIS UNIVERSITY COMPETITION

Guillot University Center Performance Center

Tuesday, April 19 at 5:00 PM – 7:00 PM

Reception following the presentations

STUDENT ORAL PRESENTATIONS

Stone Lodge, Upper Floor

Wednesday, April 20 from 8:00 AM to 9:45 AM

Thursday, April 21 from 10:30 AM to 12:00 PM

Thursday, April 21 from 1:00 PM to 2:30 PM

Thursday, April 21 from 3:00 PM to 4:30 PM

10th ANNUAL UNIVERSITY OF NORTH ALABAMA RESEARCH DAYS
ADDITIONAL RESEARCH DAYS EVENTS
APRIL 19 – 21, 2016

CASUAL CONVERSATIONS (Faculty and Graduate Students)

Sponsored by the Human Subjects Research Committee, Vice President for Academic Affairs, Phi Kappa Phi, & University Research Committee

ThinkSpace - Collier Library Basement

Tuesday, April 19

11:30 AM – Lunch (Reservation Required)

12:00 PM – 1:00 PM – Topical Discussions

FULBRIGHT PROGRAM OVERVIEW (Students and Faculty)

Dr. Joy Borah, Associate Vice President for Academic Affairs, and
Dr. Matthew Price, Learning Support Coordinator

Guillot University Center Loft

Wednesday, April 20 at 12:00 – 1:00 pm

DEPARTMENTAL SYMPOSIA

Various Locations on Campus

Computer Science and Information Systems

Tuesday, April 19 from 10 AM to 12:00 PM

ThinkSpace – Collier Library Basement

Sociology

Wednesday, April 20 from 1:30 PM to 5:00 PM

Guillot University Center Loft

Secondary Education and Elementary Education

Tuesday, April 19 from 9:30 AM to 12:00 PM

Wesleyan Hall Auditorium, Second Floor

MILITARY HISTORY SYMPOSIUM

Guillot University Center Performance Center

Friday, April 22 from 10:00 AM to 3:00 PM

POSTER PRESENTATIONS TUESDAY, APRIL 19 FROM 9:00 AM TO 10:30 AM
GUILLOT UNIVERSITY CENTER ATRIUM

Name	Research Poster Presentation Title	Department	Faculty Mentor(s)
Natalie Anderson	Impact of a Supermarket Tour on Students' Knowledge of Healthy Supermarket Foods, Comfort Level in Providing Community Education and Perception of Volunteerism	Human Environmental Sciences	Ms. Jill Goode Englett
Erin Cooper*	Bystander Attitudes and the Prevention of Sexual Assault	Sociology Psychology	Dr. Andrea Hunt
Victoria Davis*	3-D Printing in the Mathematics Classroom	Mathematics Secondary Education	Dr. Lee Raney
Nathan Donahue	The Effects of Recruitment Modality on Student Participation in RSO Events	Psychology	Dr. Ryan Zayac
Gavin Hall	Velocity & HR During RPE Production at Sea Level Vs. Altitude	Health, Physical Education, and Recreation	Dr. Matt Green
Kathryn Kelsoe	Going Green in the Residence Halls: An Investigative Study into Recycling Behavioral Patterns of Students in Mattielou Hall and Ways to Positively Effect These Behaviors	Geography	Dr. Mario Mighty
Mary Elizabeth Leiner and Emily Ownby	Examining the Effects of Individual Goal Setting on Motivation, Engagement and Reading Achievement	Elementary Education	Dr. Lorie Johnson
A. Breanna Littrell	Antibiotic Resistance Profiles of Bacteria Found on Cell Phones and the Hands of Their Owners	Biology	Dr. Lisa Ann Blankinship
Anh Nguyen	A GIS Analysis of Small Town Law Enforcement Return on Investment	Geography	Dr. Francis Koti
Alyssa Primeau	Intergenerational Communication Effects on Sexual Attitudes	Psychology	Dr. Gabriella Carrasco
Alison Shelton*	Resistance to Beta Lactam Antibiotics: Development of a Rapid, Paper-Based Detection Test	Biology	Dr. Lisa Ann Blankinship
Taylor Tucker and Janice Jackson	Evaluation of the Effect of a One-time Twenty Minute Education Session Identifying Carbohydrate Sources and Explaining Their Blood Glucose Impact on Peruvian and Alabamian Student's Knowledge	Nutrition	Ms Jill Goode Englett
Natalie Williams	Male Athletes' Attitudes and Perceptions Toward Male and Female Strength and Conditioning Coaches	Health, Physical Education, and Recreation	Dr. Lee G. Renfroe & Dr. Jean Ann Helm Allen
Halee Williams	The Development of a Scale of Religious Attitudes: Measuring Fears	Psychology	Dr. Larry Bates & Dr. Richard Hudiburg

*Indicates a QEP Undergraduate Research Grant recipient

**ILLUSTRATED PAPER PRESENTATIONS TUESDAY, APRIL 19 FROM 10:30 AM TO 12:00 PM
GUILLOT UNIVERSITY CENTER ROOM 200**

Name	Research Presentation Title	Department	Faculty Mentor(s)
Johnna Dixon	"Hola with Lola," an Interactive Spanish Grammar Digital Tool	Foreign Languages	Dr. Alejandra Alvarado-Brizuela
Julie Corsby and Sarah Tingle	Biological Sample Detection Using a UV Crime Light Camera	Biology	Mr. Steven Stracener & Dr. Lisa Ann Blankinship
Dan Wanyama	Confronting the Socio-Economic Implications of Climate Change and Variability on National Food Security: the Case of Maize Farming in Kakamega County, Kenya	Geography	Dr. Mario Mighty
Bridget Crowe	From a Flowing River: Racial Identity, Stigma Management, and Cultural Misappropriation of Native Americans in Modern America	Sociology	Dr. Andrea Hunt
Alexandra Priester*	Religious Fundamentalism: Reaction to the Visual Dot Probe Task	Psychology	Dr. Larry W. Bates & Dr. Richard A. Hudiburg
Casey Vinson	Spatial Analysis of Craft Breweries in the South	Geography	Dr. Lisa Keys-Mathews
Christiana Vedder-Abrams*	The Effectiveness of Bystander Intervention Programming in Reducing Rape Myth Acceptance among College Students	Psychology Sociology	Dr. Andrea Hunt
Elyse Eckl	The Impact of Soot Morphology on Particle Optical Properties	Chemistry	Dr. Chong Qiu

*Indicates a QEP Undergraduate Research Grant recipient

POSTER PRESENTATIONS TUESDAY, APRIL 19 FROM 11:00 AM TO 12:20 PM
GUILLOT UNIVERSITY CENTER ATRIUM

Name	Research Poster Presentation Title	Department	Faculty Mentor(s)
Samantha Beckinger	Mapping Rural Scotland	Geography	Dr. George Makowski
Alyson Bergner*	The Effects of a Stimulus Equivalence Program on Portion-Size Estimations of Peruvian and American Elementary School Children	Psychology	Dr. Ryan Zayac
Gabrielle D'Arcy	Racial Bias in Law Enforcement-Related Fatalities	Geography	Dr. Jonathan Fleming
Kelsey Davis	A Work in Progress: An Autoethnography of Educating Low Socioeconomic Students	Secondary Education & English, Language Arts	Dr. Gary Padgett
Steven Holden**	KDE Crime Mapping in Mobile, Alabama	Geography	Dr. Sunhui Sim
Blake Hollimon	Fish Survey and Bioassessment of Cypress Creek in the Tennessee River Drainage	Biology	Dr. Jeffery Ray
Mariann Jahraus* and Taylor Davis*	Pre-Service Teachers' and K-12 Administrators' Perceptions of Student Media Monitoring	Secondary Education	Dr. Jessica Mitchell & Dr. Gary Padgett
Alexandria Kelley	Comparison of Exercise and Nutrition Intelligence and Obesity Between Peru and USA	Health, Physical Education, and Recreation	Dr. Matt Green
Jonathan Marks	Environmental Characteristics of <i>Magnolia macrophylla</i> (Bigleaf Magnolia) Occurrence Sites	Geography	Dr. Jonathan Fleming
Mark Pettit	An Exploration of Bystander Attitudes among Collegiate Athletes	Psychology	Dr. Amber Paulk
Lizzy Reburn	Expanding The Tobacco Market: Cigarette Cards, Photography, and Modern Dance	Art	Dr. Lisa Kirch
Christie Seltmann	Effects of Dehydration on Lactate Concentration During Constant Load Cycling	Health, Physical Education, and Recreation	Dr. Matt Green

*Indicates a QEP Undergraduate Research Grant recipient

**University Research Program Grant Recipient

POSTER PRESENTATIONS TUESDAY, APRIL 19 FROM 2:30 PM TO 4:00 PM
GUILLOT UNIVERSITY CENTER ATRIUM

Name	Research Poster Presentation Title	Department	Faculty Mentor(s)
Aaron Avery and Emily Malone	Bunting in Baseball: Getting it Down to Statistics	Mathematics Secondary Education	Dr. Ashley Johnson
Kaitlyn Wilson, Mary Yarber** and Emily Hood* **	Comparing Dietary Intake of University Students from Peru and Alabama with an Analysis of the Effect of Dietary Intake on Anthropometrics Across Cultures	Human Environmental Sciences Marketing	Ms. Jill Goode Englett
Kelly Melton	Gender's Impact on Collegiate Athletes' Bystander Attitudes	Sociology and Family Studies Psychology	Dr. Amber Paulk
James McKee*	Pilot Study: Micrometeorites In Rainwater	Professional Physics	Dr. Ronald Blake Dr. Chong Qiu Dr. Richard Statom
Gwyn Foster	Pitching Performance After Tommy John Surgery	Health, Physical Education, and Recreation	Dr. Matt Green
Tonia Turner	Resistant Bodies and the Remapping of Corporeal Terrains in Contemporary Native American Fiction: Leanne Howe's Miko Kings	English	Dr. Matthew Duques
Anna Goggans	Stimulant Usage Among Nursing Students	Nursing	Mr. Willard Brewer
Ellen Mannon	Stimulus Equivalence Training: Effects of Preferred vs. Non-Preferred Foods on Portion-Size Estimations of Elementary School Children	Psychology	Dr. Ryan Zayac
Ryan Vaccaro	The Effects of Urban Growth	Geography	Dr. Jonathan Fleming
Elizabeth Elia	The Art Behind the Interview: A Critical Case Study of Interviewing for a Teaching Position	Secondary Education English Language Arts	Dr. Gary Padgett
Natalie Anderson	Assessment Dietary Behaviors, Nutrition Knowledge and Impact of Price on the Eating Habits and Food Selection among Faculty, Staff, and Students	Human Environmental Sciences	Ms. Jill Goode Englett
Eleshia Butler, Hannah White, Destany McCormack, and Anna Goggans	Therapeutic Hypothermia After Cardiac Arrest: Its Effect on Neurologic Function	Nursing	Ms. Stephanie Mohr

*Indicates a QEP Undergraduate Research Grant recipient

**University Research Program Grant Recipient

**ORAL PRESENTATIONS WEDNESDAY, APRIL 20 FROM 8:00 AM TO 9:45 AM
STONE LODGE UPPER FLOOR**

Name	Research Presentation Title	Department	Faculty Mentor(s)
Victoria Davis*	3-D Printing in the Mathematics Classroom	Mathematics Secondary Education	Dr. Lee Raney
Elly Couch	A Cluster Analysis Exploring Abstraction Level Over Properties of Even, Odd, and Consecutive Numbers Among Teachers and Their Students	Mathematics Secondary Education	Dr. Cynthia Stenger
Nealey Sims	Adventures in Making Images of Opals with Old-Fashioned Holographic Plates	Physics	Dr. Brian Thompson
Graem Cook	Database Design for the CPR ² Grant Research	Computer Science & Information Systems	Dr. James Jerkins
Alyson Mavromat	Effectiveness of Supplemental Instruction at UNA	Mathematics, Secondary Education	Dr. Cynthia Stenger
Emily McClanahan	From the Ground Up: A Guide on Successfully Starting a Small Business	Accounting	Dr. Corey Cagle
Matthew Cooper**	Ozone Spectroscopy and Fast Fourier Transforms	Professional Physics Mathematics	Dr. Chong Qui

*Indicates a QEP Undergraduate Research Grant recipient

**University Research Program Grant Recipient

ORAL PRESENTATIONS THURSDAY, APRIL 21 FROM 10:30 AM TO 12:00 PM
STONE LODGE UPPER FLOOR

Name	Research Presentation Title	Department	Faculty Mentor(s)
Taylor Myrick	Adventures in making images of opals using modern holographic film.	Physics	Dr. D. B. Thompson
Katelyn Payton-Page	An Exploration of the Relationship between Levels of Education and Levels of Abstraction over Proportional Reasoning	Mathematics	Dr. Cindy Stenger
John Carr*	Complete Graph Decompositions and P-Groupoids	Mathematics	Dr. Mark Greer
Ali Murad* Adam Risher* Jordan Simmons*	How to Measure IT Effectiveness: The CIO's Perspective	Computer Science and Information Systems	Dr. Xihui Zhang
Alyssa Primeau	The Effects of Parenting Styles on Offspring's Coping Mechanisms	Politics, Justice & Law	Dr. Christopher Purser

*Indicates a QEP Undergraduate Research Grant recipient

ORAL PRESENTATIONS THURSDAY, APRIL 21 FROM 1:00 PM TO 2:30 PM
STONE LODGE UPPER FLOOR

Name	Research Presentation Title	Department	Faculty Mentor(s)
Mitchell Lovell*	Fish Survey and Bioassessment of Cypress Creek in the Tennessee River Drainage	Biology	Dr. Jeffery Ray
Tyler Yasaka* and Jonathon C. Marlar	Improving Learning with Simple Immersive Virtual Environments	Computer Science	Dr. Jason Watson
Vincent Chiriaco	SHA-1 Collision Attacks with Parallel Computation	Computer Science	Dr. James Jerkins
Rebecca Stackhouse	The Association Between Parents' Perception of Children's Meal Quality and Academic Performance	Sociology & Family Studies	Dr. Andrea Hunt, Dr. Amber Paulk, Dr. Yaschica Williams
Zachary Ferris	Determinants of Firing Coaches	Economics	Dr. Keith Malone
Kali Seaton	Does Child Care Quality Matter? A Comparison of Children's Developmental Outcomes Across Classrooms with Different Quality Standards	Sociology & Family Studies	Dr. Amber Paulk
Emma Hazlewood	The Effect of Bullying on Special Needs Individuals: A Needs Assessment of a Southern Community to Promote Growth, Awareness, and Community Response	Sociology & Family Studies	Dr. Andrea Hunt

*Indicates a QEP Undergraduate Research Grant recipient

**ORAL PRESENTATIONS THURSDAY, APRIL 21 FROM 3:00 PM TO 4:30 PM
STONE LODGE UPPER FLOOR**

Name	Research Title	Department	Faculty Mentor(s)
Katelyn Partain	Relationship between Collegiate Student and Institution: Why Students Leave, and Convergence on Retention Success	Communication	Ms. Stephanie Montgomery
Jacob Dawson*	Lower Temperature Limit for Feeding in Spotted Dusky Salamanders	Biology	Dr. Terry Richardson
Benjamin Wilson	<i>Dodecatheon Frenchii</i> in Cane Creek Canyon Nature Preserve	Biology Geography	Dr. Lisa Keys-Mathews
Md Abu Sayed	"Save Driving Time-Save Environment" by Intelligent Parking Reservation System of University of North Alabama	Geography	Dr. Sunhui Sim
Mariann Jahraus*	Pre-Service Teacher Perceptions of Social Media	Secondary Education Biology	Dr. Gary Padgett
Anna Goggans, Eleshia Butler, Destany McCormack, and Hannah White	Therapeutic Hypothermia After Cardiac Arrest: Its Effect on Neurologic Function	Nursing	Ms. Stephanie Mohr
Brooke Carlson	The True Intentions of Milton's "Paradise Lost"	English	Dr. Cheryl Price

*Indicates a QEP Undergraduate Research Grant recipient