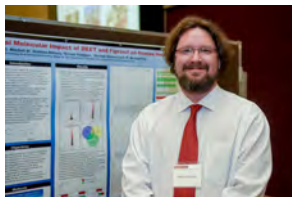

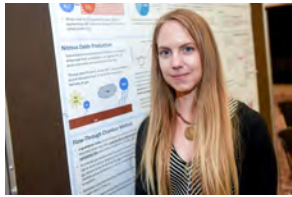


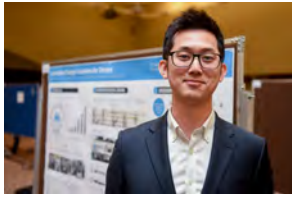
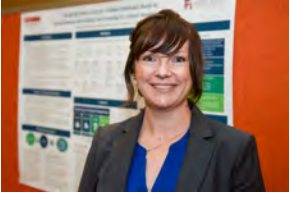




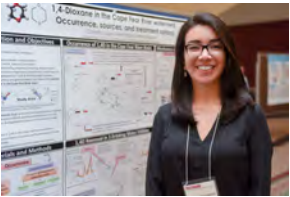


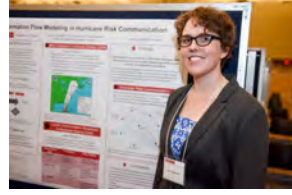

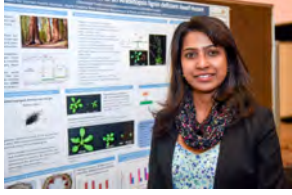


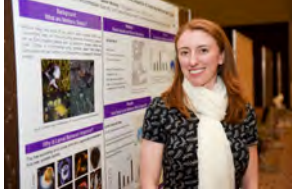


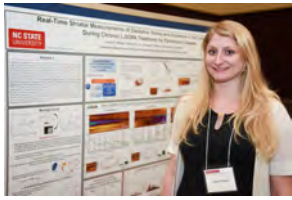
Eleventh Annual Graduate Student Research Symposium

Congratulations to the winners of the Eleventh Annual Graduate Student Research Symposium! Each year, the Symposium showcases the outstanding quality and diversity of graduate-level research at NC State. The Symposium was held on March 23, 2016 at the McKimmon Center. First-, second-, and third-place winners have been announced in eight categories.

AGRICULTURAL SCIENCES & NATURAL RESOURCES	
	<p>1st Place: Robert Mitchell - Entomology</p> <p>Global Molecular Impact of Deet and Fipronil on Human Health</p>
	<p>2nd Place: Tyler Sowers - Soil Science</p> <p>Arsenite and Arsenate Sorption to Biogenic Iron (Oxyhydr) oxides Formed in Natural and Laboratory Environments</p>
	<p>3rd Place: Natalie Ross - Soil Science</p> <p>Development of an Improved Method for Measuring Nitrous Oxide Emissions from Soils in the Southeast</p>
DESIGN	
	<p>1st Place: Sally Van Gorder - Art + Design</p> <p>Dust and Power: An Autobiography</p>
	<p>2nd Place: Jennifer Peavey - Industrial Design</p> <p>A Process for Informing Strategy with Design and Forecasting</p>
	<p>3rd Place: Byungsoo Kim - Industrial Design</p> <p>Interaction Design Guidelines for Drivers</p>

EDUCATION	
	<p>1st Place: Shea Kerkhoff - Curriculum and Instruction</p> <p>Designing Global Futures: A Mixed Methods Study to Operationalize and Validate the Teaching for Global Readiness Scale</p>
	<p>2nd Place: Osman Aksit - Educational Research & Policy Analysis</p> <p>Investigating Student Learning through Writing and Drawing: Implications for Multimodal Science Assessment</p>
	<p>3rd Place: Jason Wornoff - Teaching Education and Learning Sciences</p> <p>Fitting In and Standing Out at School Predicts Adaptive Cardiovascular Patterns among College Students</p>
ENGINEERING	
	<p>1st Place: Ahmed Goma - Chemical and Biomolecular Engineering</p> <p>Sequence-specific antimicrobials for treating multidrug-resistant infections</p>
	<p>2nd Place: Resulali Orgut - Construction Engineering and Management</p> <p>Metrics that Matter: Improving Progress and Performance Assessment in Construction Projects</p>
	<p>3rd Place: Catalina Lopez Velandia - Environmental Engineering</p> <p>1,4-Dioxane in the Cape Fear River watershed: Occurrence, sources, and treatment options</p>
HUMANITIES	
	<p>1st Place: Eric Wilbanks - English</p> <p>“SHtriking” Change in Raleigh’s Speech: Acoustic Analysis of (STR) Retraction</p>

	<p>2nd Place: Abigail Jones (History) <i>and</i> Sarah Soleim (Public History) (Left) (Right)</p>
	<p>3rd Place: Laura Zdanski - Technical Communication</p> <p>Information Flow Modeling in Hurricane Risk Communication</p>
<p>LIFE SCIENCES</p>	
	<p>1st Place: Renan Sper - Comparative Biomedical Sciences</p> <p>Generation of a Stable Transgenic Swine Model for Cell Tracking and Chromosome Dynamics Studies</p>
	<p>2nd Place: Chinmayee Panda - Plant Biology</p> <p>Characterization of a suppressor of an Arabidopsis lignin deficient dwarf mutant</p>
	<p>3rd Place: Rozalynne Samira - Plant Biology</p>
<p>MATHEMATICAL AND PHYSICAL SCIENCES</p>	
	<p>1st Place: Sofia Garakyaraghi - Chemistry</p>
	<p>2nd Place: Doreen McVeigh - Marine, Earth, and Atmospheric Sciences</p> <p>Behavior Matters: A Bio-Physical Model for the Dispersal of Deep-Sea Methane Seep Larvae</p>



3rd Place: Leslie Wilson - Chemistry

Real-Time Striatal Measurements of Oxidative Stress and Dopamine in the Dyskinetic Rat During Chronic L-DOPA Treatment for Parkinson's Disease

SOCIAL SCIENCES AND MANAGEMENT



1st Place: Ruth Adikorley – Textile Technology Management

[Sub-Saharan Africa's Competitiveness in the U.S. Apparel Market](#)



2nd Place: Gareth Jones – Parks, Recreation and Tourism Management

[Collaborative Advantage: Enhancing the Organizational Capacity of Youth Sport Non-Profit Organizations](#)



3rd Place: Allison Bowles – Textile Technology Management

[Size Grading of Zero-Waste Garments](#)