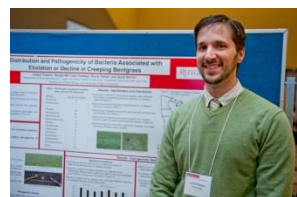


8th Annual Graduate Student Research Symposium

Congratulations to the winners of the 8th Annual Graduate Student Research Symposium! Each year, the Symposium showcases the outstanding quality and diversity of graduate-level research at NC State University. There were 200 poster presentations at the Symposium that was held on March 19, 2013 at the McKimmon Center. First-, second-, and third-place winners have been announced in seven categories.

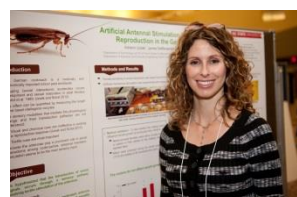
AGRICULTURAL SCIENCES & NATURAL RESOURCES



Joseph Roberts (Plant Pathology) won **first place** for his research: [*Distribution and Pathogenicity of Bacteria Associated with Etiolation or Decline of Creeping Bentgrass*](#)



Rajani Thanissery (Poultry Science) won **second place** for her research: Reduction of *Salmonella* and *Campylobacter* on Broiler Breast Meat and Wings Treated with Essential Oil.



Dr. Adrienn Uzsák (Entomology) won **third place** for her research: [*Artificial Antennal Stimulation Accelerates Female Reproduction in the German Cockroach*](#)

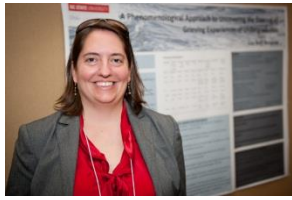
EDUCATION



Malinda Pennington (Curriculum and Instruction) won **first place** for her research: [*Defining Autism: Variability in State Eligibility Requirements*](#)

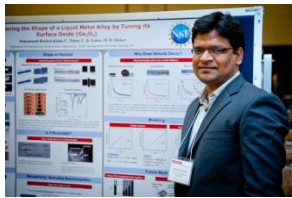


Linda Pigott Robinson (Curriculum and Instruction) won **second place** for her research: [*What Works With Secondary Gifted Learners: A Qualitative Case Study of the Curriculum and Instructional Approaches of the North Carolina Governor's School*](#)

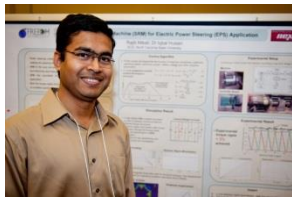


Lisa Beth Bergene (Leadership Policy and Adult and Higher Education) won **third place** for her research: [*A Phenomenological Approach to Uncovering the Essence of Grieving Experiences of Undergraduates*](#)

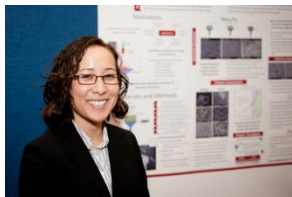
ENGINEERING



Mohammad Rashed Khan (Chemical and Biomolecular Engineering) won **first place** for his work: *Engineering the Shape of a Liquid Metal Alloy by Tuning its Surface Oxide*



Rajib Mikail (Electrical Engineering) won **second place** for his research: [*Switched Reluctance Machine \(SRM\) for Electric Power Steering Application*](#)



Alina Higham (Chemical and Biomolecular Engineering) won **third place** for her research: [*Nanofibers of Water-Soluble Polymers via Foam Electrospinning*](#)

HUMANITIES AND DESIGN



Joshua Stephens (Architecture) won **first place** award for his research: [*Hypersonic Transport Systems: The Next Big Demand on Architecture*](#)

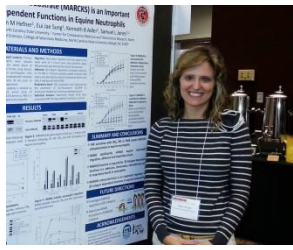


Arika Dean and **Caroline Myrick** (English) won **second place** for their research: [*What is Saban English? A Sociolinguistic Analysis of a Caribbean Dialect Isolate*](#)

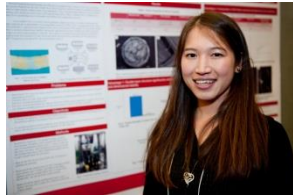


Shawna M. Hammon (Architecture) won **third place** for her research: [*Woven: A Wooden Skyscraper*](#)

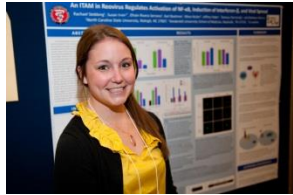
LIFE SCIENCES



Mary Katherine Sheats (Comparative Biomedical Sciences) won **first place** for her research: [MARCKS is a Key Regulator of Equine Neutrophil \$\beta\$ 2-Integrin Dependent Functions.](#)

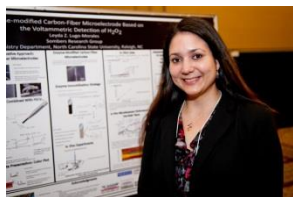


Jing Liang (Textile Engineering) won **second place** for her research: [A double layer braided Nerve Conduit for peripheral nerve regeneration](#)

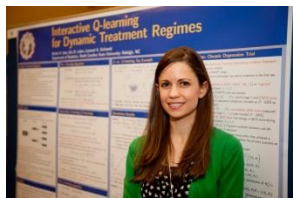


Rachael Stebbing (Comparative Biomedical Sciences) won **third place** for her research: [An ITAM in Reovirus Regulates Activation of NF- \$\kappa\$ B, Induction of Interferon- \$\beta\$, and Viral Spread](#)

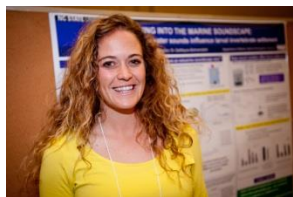
MATHEMATICAL AND PHYSICAL SCIENCES



Leyda Z. Lugo Morales (Chemistry) won **first place** for her research: [Enzyme-modified Carbon Fiber Microelectrode Based on the Voltammetric Detection of \$H_2O_2\$](#)



Kristin Ashley Linn (Statistics) won **second place** for her research: [Interactive Q-learning for Dynamic Treatment Regimes](#)

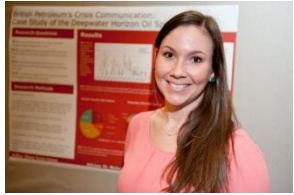


Ashlee Lillis (Marine, Earth and Atmospheric Sciences) won **third place** for her research: [Tuning into the Marine Soundscape: Habitat-specific Underwater Sounds Influence Larval Invertebrate Settlement](#)

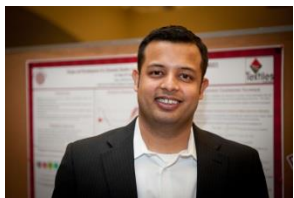
SOCIAL SCIENCES AND MANAGEMENT



Suzie M. Mwarabu and **Emily I. Nwakpuda** (Public Administration) won **first place** for their research: [*Risk Factors and Barriers to Shelter in Homeless Populations.*](#)



Ginny Tyson Inman (Communication) won **second place** for her research: [*British Petroleum's Crisis Communication: Case Study of the Deepwater Horizon Oil Spill.*](#)



Ravikanth N. Vangala (Textile Technology Management) won **third place** for his research: [*Design and Development of a Dynamic Quality Control System: Applications to Ring Spinning and Continuous Dyeing Processes.*](#)