2020 Carolyn and Norwood Thomas Undergraduate Research and Creativity Expo
~ Award Winners ~

Business, Education, Social and Behavioral Sciences
1st Place  Keichelle Joyce (Elementary Education, Special Education, Senior) and Olivia Cook (Human Development and Family Studies, Post-Bac)
Mentor: Jennifer Coffman (Human Development and Family Studies)
Relating Strategic Memory Skills to Math Calculation Performance in Kindergarten

2nd Place  Katherine Tardif and Margarito Martinez (Interior Architecture, Seniors)
Mentor: Asha Kutty
Utilizing Technologies to Examine the Designed Environment and Perception of Crime

3rd Place  Robert Tate (Geography, Senior)
Mentor: Selima Sultana (Geography)
African American Perspectives on United States National Parks and Visitation

Honorable Mention
Gabriel Parks (Communication Studies, Senior)
Mentor: Jenni Simon (Communication Studies)
An Alternative Sense-making Collective: A Rhetorical Analysis Of The Intellectual Dark Web

Humanities
1st Place  Abigail Knight (Nursing, Junior)
Mentor: Erin Lawrimore (University Libraries)
War on the Homefront: Responses to the Influenza Pandemic of 1918 at Three North Carolina Colleges

2nd Place  Eliza Rosebrock (English and Art History, Senior)
Mentor: Ben Clarke (English)
The Damning Word: The People's Side of Irish History in Frank Delaney's Fiction

3rd Place  Irvin Maldonado (Art, Senior), Victoria Landers, (Art, Senior), and Filberto Hernandez (Business Administration, Senior)
Mentors: Leah Sobsey and Adam Carlin (Art)
The Lawn Sign Project

Honorable Mention
London Nance (Classical Studies, Senior)
Mentor: Joanne Murphy (Classical Studies)
The Archaic Temple of Apollo in Karthaia: A Case Study of the Interaction Between the Cultures of Mainland and Cycladic Greece
**Mathematics, Life and Physical Sciences**

1\(^{\text{st}}\) Place  
Deborah Killian (Biology, Senior)  
Mentors: Ramji Bhandari and Xuegeng Wang (Biology)  
*Embryonic Development in Fish is Hindered by Exposure to Environmentally Relevant Concentrations of Glyphosate*

2\(^{\text{nd}}\) Place  
Christopher Cotter (Biology, Post-Bac)  
Mentors: Ayalew Osena and Zhenquan Jia (Biology)  
*Evaluating the Antioxidant Properties of Phytochemical Extracts from the Ancient Grain Teff (Eragrostis tef)*

3\(^{\text{rd}}\) Place  
Melika Osareh (Biology, Sophomore)  
Mentors: John Z. Kiss and Tatsiana Shymanovich  
*Analysis of Gravitational Stress-Resistance in Arabidopsis thaliana Plants*

Honorable Mentions  
William Crandall (Chemistry, Senior)  
Mentor: Nadja Cech (Chemistry and Biochemistry)  
*Fungal Compounds from the Underground Railroad Tree Inhibit Methicillin Resistant Staphylococcus aureus (MRSA)*

Joseph Mangun (Chemistry, Post-Bac)  
Mentor: Nadja Cech (Chemistry and Biochemistry)  
*Applications of Artemisia annua for anti-malarial drugs*

**Performing Arts**

1\(^{\text{st}}\) Place  
Alex Stewart (Music, Junior)  
Mentor: Mary Ashley Barret  
*The Bombarde Reed: Understanding the Design and Construction*

2\(^{\text{nd}}\) Place  
Jacquelyn Whiteside (Theatre, Senior)  
Mentor: Deborah Bell (Theatre)  
*Designing Costumes for Pippin, One of the School of Theatre's Mainstage Productions*

3\(^{\text{rd}}\) Place  
Taylor Barlow (Music, Junior)  
Mentor: Andrew Hudson (Music)  
*Artificial Emotional Intelligence: Perfectly Imperfect Performance in Pierce Gradone Automaton*
Emerging Scholars (UNCG Residential College Students)

1st Place  Ethan McKellar (Art, Junior)
Mentors: John Sopper (Grogan College) and Patricia Wasserboehr (Art)
*Impermanence: Collision*

2nd Place  Bailey Thompson (Chemistry, Sophomore)
Mentor: Sara Littlejohn (Ashby College)
*The “Mental Health Crisis”: The Adolescent Need for Accessible Treatment Plans*

3rd Place  Diana Angeles (Pre-Health Studies, Sophomore)
Mentor: John Sopper (Grogan College)
*Factors Driving Hispanics in the USA to Avoid Professional Medical Care*

Honorable Mentions

- Eric Yan (Computer Science, Sophomore)
  Mentor: Sara Littlejohn (Ashby College)
  *The Effect of Historical Bias on the Portrayal of World War II Era Ground Vehicles in Pop Culture and Fiction*

- Asha Moore (Psychology, Sophomore)
  Mentor: Sara Littlejohn (Ashby College)
  *Dependency, Dehumanization, and Insecurity: Analyzing Why Women Stay in Toxic Relationships*