Third Undergraduate Spring Symposium 2019  
Category Winners

Human Engagement – Oral Presentations (3 orals)

**Winner:** Why the South Carolina Negro Code of 1740 Matters in 2019. Kayla Tokar* (Kayla is a Music major at WVU from Uniontown, PA. Kayla is a student ambassador for the WVU Office of Undergraduate Research and participated in both the pilot (2017-2018) Research Apprenticeship Program and the 2018 Summer Undergraduate Research Experience.)

Science & Technology – Oral Presentations (3 orals)

**Winner:** Antagonism of Naturally Occurring Bacterial Isolates Against Staphylococcus aureus: A Search for Novel Probiotics. Brittan McClain* and Matthew Williams (Brittan is a Biology major at WVU Institute of Technology from Dixie, WV. Brittan carried out research for WVU 497-level research course credit.)

Agricultural & Environmental Sciences – Poster Presentations (25 posters)

**1st Place:** Urban Legacies: Linking Glass Manufacturing to Soil Pollution in Morgantown, WV. Kailee Gokey,* Chase Mowery,* Erin Mates,* Randy Toth, and Ken Brown (Kailee is a Geology major at WVU from Sutton, WV. Kailee carried out research for her Environmental Geoscience Capstone course.)

**2nd Place:** Characterization of Yeast and Bacteria on Cider Apples in West Virginia. Logan Webb,* April Kessel,* Michael Gutensohn, and Ember Morrissey (Logan is an Exercise Physiology major at WVU from Morgantown, WV. Logan carried out research using a Research and Scholarship Award.)

**3rd Place:** Selection of Rams for Reduced Parasite Fecal Egg Count Reduces Parasite Burden in Progeny. Allison B. Farley,* A. R. Weaver, S.P. Greiner, and S.A. Bowdridge (Allison is an Animal and Nutritional Sciences major at WVU from Saint Albans, WV. Allison was a participant in WVU’s Research Apprenticeship Program.)

Behavioral & Social Sciences – Poster Presentations (36 posters)

**1st Place:** The Cannabinoid Drug ZCZ011 Does not Alter Anxiety or Reward in Mice. Brian Kotson,* Kristen Trexler, and Steven Kinsey (Brian is a Psychology major at WVU from Glen Dale, WV. Brian was a participant in WVU’s Research Apprenticeship Program.)

**2nd Place:** See - Do Correspondence in a Pigeon. Virginia Milleson* and Kennon Lattal (Virginia is a Neuroscience & Psychology double major at WVU from Summit Point, WV. Virginia career out research for WVU 497-level research course credit.)

**3rd Place:** Effect of Manner of Articulation on Different Types of Variance During Speech Motor Learning. Jacob Cahn* and Kimberly Meigh (Jacob is a Speech Pathology and Audiology major at WVU from Morgantown, WV. Jacob was a participant in the 2018 Summer Undergraduate Research Experience.)
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Category Winners

Biological & Biochemical Sciences – Poster Presentations (36 posters)

1st Place: NMNAT1, a Protein Associated with Blinding Disease, is Crucial for Retinal Development and Stability. David Sokolov,* Emily Sechrest, Joseph Murphy, Yekai Wang, Jianhai Du, Peter Mathers and Saravanan Kolandaivelu (David is a Biology and Mathematics double major at WVU from Morgantown, WV. David carried out research for Biology 486 Capstone credit.)

2nd Place: The Genetic Underpinnings of Symbiosis Between The Ambrosia Beetle Euwallacea Validus and Fusarium Oligoseptatum. Fady Wasef,* Elaina Spahr, and Teiya Kijimoto (Fady is a Biology major at WVU from Morgantown, WV. Fady carried out research for Biology 486 Capstone credit.)

3rd Place: Studying Development of the Hypothalamus in genomic screen homeobox 1 Mutant Zebrafish. R. Madison Riffe,* Samantha L. Phelix,* Sarah N. Peterson,* Rebecca A. Coltogirone, and Sadie A. Bergeron (Madison is a Biology major at WVU from Charleston, WV. Madison participated in the 2018 Summer Undergraduate Research Experience and furthered her research with WVU Honors EXCEL Enrichment Funds.)

Health Sciences – Poster Presentations (32 posters)

1st Place: Identification of a Sulfonamide Analog that Reduces Cell Viability in B-cell Acute Lymphoblastic Leukemia. Nolan R. Holley,* Debbie Piktel, Werner J. Geldenhuys, Karen H. Martin, Bin Su and Laura F. Gibson (Nolan is a Biochemistry major at WVU from Ripley, WV. Nolan was a participant in the 2018 WVU Cancer Research Fellowship program.)

2nd Place: Turning on a Split-Belt Treadmill Using Virtual Reality. Lindsay Reese,* Matthew Boots, Anton Sobinov, Trevor Moon and Sergiy Yakovenko (Lindsay is an Exercise Physiology major at WVU from New Stanton, PA. Lindsay was a participant in WVU’s Research Apprenticeship Program.)

3rd Place: Optimizing Protocols for the Development of Polyclonal Antibody Treatments Against Pseudomonas aeruginosa. Aaron C. Malkowski,* Emel Sen-Kilic, Justin Beverly, Catherine Blackwood, and Mariette Barbier (Aaron is an Immunology & Medical Microbiology major at WVU from Mount Holly, NJ. Aaron is a student ambassador for the WVU Office of Undergraduate Research and participated in the pilot (2017-2018) Research Apprenticeship Program.)
Third Undergraduate Spring Symposium 2019
Category Winners

Human Engagement – Poster Presentations (20 posters)

1st Place: Airline Dissolution. Cornell Brown,* Gulnara Zaynudinova, and Olga Bruyaka Collignon (Cornell is a Marketing major at WVU from Nottingham, MD. Cornell was a participant in WVU’s Research Apprenticeship Program.)

2nd Place: Let the Storm Rage On: Reevaluating Misconceptions Regarding the Alaska Native Claims Settlement Act. Michael V. Amato* (Michael is a Political Science, History, and World Languages triple major at WVU from Rochester, MA. Michael’s research efforts were mainly voluntary.)

3rd Place: Peer Feedback on Revisions & Implementation. Joseph Ashton,* Morgan Goode, and Melissa Patchan (Joseph is an Electrical Engineering major at WVU from Inwood, WV. Joseph was a participant in WVU’s Research Apprenticeship Program.)

Physical Sciences & Engineering – Poster Presentations (35 posters)

1st Place: Temperature Ramp and Reaction Time Variances Affect Size and Chemistry of Manganese Oxide Nanoparticles. Alexander Pueschel,* Celia Martinez De La Torre, Jasmine Grossman, and Margaret Bennewitz (Alexander is a Biomedical Engineering major at WVU from Rosedale, MD. Alexander was a participant in WVU’s Research Apprenticeship Program.)

2nd Place: The Development and Integration of Air-Brake Systems on a Small-Scale Rocket. Abednego Abdi* and Patrick Browning (Abednego in a Mechanical and Aerospace Engineering double major at WVU from Martinsburg, WV. Abednego was a participant in WVU’s Research Apprenticeship Program.)

3rd Place: How Acid Mine Drainage Affects Water Quality. Kara Cunningham,* Karen Buzby, and Lian-Shin Lin (Kara is a Civil and Environmental Engineering major at WVU from Hamlin, WV. Kara was a participant in WVU’s Research Apprenticeship Program.)
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- Honors College (https://www.honors.wvu.edu/)
- 38+ graduate students from across the WVU campus who served as volunteer judges for the event.