

Spring 2019 Awards

Biological Sciences Department

Faculty Sponsor: Dianne Baker

Students: **Lauren Closs & Bailey Bashara** - Development of the kisspeptin system and regulation by estradiol in zebrafish

Students: **Erica Liss, Grace Holcomb & Nicholas Thompson** - Effects of embryonic and adult exposure to benzo[a]pyrene on Alzheimer's associated gene expression and the mechanisms involved

Students: **Rachel Summers & Rachel Myrick** - The Effect of Stress during Development on the Functioning of the Zebrafish HPI Axis

Faculty Sponsor: Rosemary Barra

Students: **Samantha St. John & Paola Ulrich** – The Effect of SC-66 and PPAR alpha on Glucose Uptake in HCT-116 cells

Faculty Sponsor: Lynn Lewis

Students: **Fernando Cabezas & Justin Adams**– Bioremediation of diesel contaminated soil

Faculty Sponsor: Deborah O'Dell

Student: **Olivia Blake** - Dopamine Receptor Expression in Worker Honey Bees in response to Queen Mandibular Pheromone

Faculty Sponsor: Abbie Tomba

Student: **Anna Ruuskanen** - Trematode Lifecycles

Faculty Sponsor: Parrish Waters

Student: **Jackson Gardner** - Preferential response of adolescent rats to sucrose versus social play

Student: **Anna Rinko**- Patterns of OBX Wheel Running

Faculty Sponsor: April Wynn

Student: **Logan Hargis** - Transgenic Arabidopsis

Chemistry Department

Faculty Sponsor: Leanna Giancarlo

Students: **Ashley Parkhurst & Emily Matuczinski** – Synthesis of a Superparamagnetic Iron Oxide Based Nano-complex for Targeted Cell Death of Glioblastoma Cells

Faculty Sponsor: Randall Reif

Student: **Catherine Zwemer** – The temporal Dynamics of the Extrinsic Process of Apoptosis

Classics, Philosophy, & Religion Department

Faculty Sponsor: Leanne Houghtalin

Students: **Ariane Akhand, Emma Ashbury, Abigail Brock, William Carpenter, Emma Eichenberger, Margaret Hinson, Lauren Rosenberger, Lilian Salamone, Cayce Walker, Ruth Wilmot, Kalina Zizulka** - Producing the Latin Play "Pseudolus"

Earth & Environmental Science Department

Faculty Sponsor: Tyler Frankel

Student: **Than-Binh Duong** - Effects of Methoxychlor on Microplastic-Induced Mortality of Daphnia magna

Student: **Mary Hoffman** - Assessing the effects of sulfoxaflor on the physiology, reproduction, and behavior of Daphnia magna

Faculty Sponsor: Pam Grothe

Student: **Kathleen Elliott** - The seasonality of Oxygen and Hydrogen Isotopes of Rain, Stream and Groundwater in Fredericksburg, VA

Student: **Andres Moore** - Sr/Ca Methods Development for Coral-based Paleo-SST

Student: **Cheyenne Palmo** - Survey of Paired $\delta^{18}O$, δD and Salinity for the Chesapeake Bay and Its Tributaries: Applications to Regional Paleohydrology

Faculty Sponsor: Ben Kisila

Student: **Grace Rihl** - Sediment Accumulation and trace metal input in Lake Manassas and Lake Occoquan

Faculty Sponsor: Melanie Szulczewski

Students: **Isabel Faust, Riley Manthey & Allison Burgess** - Analysis of Drinking Water Quality in Buildings at the University of Mary Washington

Economics Department

Faculty Sponsor: Steve Greenlaw

Students: **Parker Coon, Claire Planton, & Theo Zotos**- Eastern Economic Association conference

Faculty Sponsor: Don Lee

Students: **6 students**- Economic Scholars Program at the Federal Reserve Bank of Dallas

English, Linguistics, & Communication Department

Faculty Sponsor: Martha Burtis

Student: **Milen Bein Mehari**- Resisting Black Erasure

Faculty Sponsor: Shumona Dasgupta

Student: **Milen Bein Mehari** - Eritrean Women During Liberation and Beyond

Faculty Sponsor: Danny Tweedy

Student: **Milen Bein Mehari** - African American Writers

Geography Department

Faculty Sponsor: Caitie Finlayson

Student: **Alexander Chvala**- Extending Interstate 97 to Richmond to Fix Mid-Atlantic Transport Headache

Student: **Darby Libka** - AAG Geography Bowl Participation and Thesis Poster Presentation

Historic Preservation Department

Faculty Sponsor: Lauren McMillan

Students: **Delaney Resweber, Shannon Bremer, Elizabeth O'Meara, Olivia Larson, & Ethan Knick-**
Middle Atlantic Archaeology Conference

History and American Studies Department

Faculty Sponsor: Erin Devlin

Student: **Milen Bein Mehari** - Fostering Social Justice and Student Leadership on Campus

Psychological Science Department

Faculty Sponsor: Miriam Liss

Students: **Helen Makriyianis, Leslie Lozano, & Chloe Morton**- Openness to experience mediates the relationship between adverse childhood experience and mental health outcomes

Faculty Sponsor: Virginia Mackintosh

Student: **Erin Shaw** - Society for Research in Child Development

Faculty Sponsor: Chris McBride

Students: **30 Students** - Student presentations at the Virginia Academy of Psychological Science meeting

Faculty Sponsor: Dave Stahlman

Students: **Wilbur Galindo, Zafrullah Malik, Samantha Tiedeman, & Emily Webberson** – Modulation of Navigational variability by forced exercise and sensory specific satiety

Faculty Sponsor: Emily Stanley

Students: **Kim Bui, Kara Hogue, Sidney McPhail, Corinne Rydgren, & Haley Turczynski** - Error-Related brain Activity and Mindfulness

Faculty Sponsor: Hilary Stebbins

Student: **Megan Jacobs** - Chronotype Differences in Stress Reactivity in the Morning and Evening

Faculty Sponsor: Debra Steckler

Student: **Nicole Jefferies** - Emerging Adults explicitly report having no racial bias against mixed-race couples, but IAT results show otherwise

Faculty Sponsor: Laura Wilson

Students: **Jordan Pamlanye, Maddie Murphy-Neilson, Hannah Truex, Kristen Kunaniec, & Rebecca Reed** – Higher Rates of unacknowledged rape among men: The role of rape myth acceptance

Theatre and Dance Department

Faculty Sponsor: Gregg Stull

Students: **Aaron Hoffman-Wilson & Victoria Fortune** – Directing Laundry, Bourbon, and Lone Star in Studio 115

Student: **Benjamin Lechtman** – Directing Tales of the Lost Formicans in Studio 115

Student: **Taylor Malone** – 12,000 Voices in Studio 115

Student: **Patrick Regal** – Directing The Goat, or Who is Sylvia in Studio 115

Student: **Michayla Rice** – Choreographing FAMILIAR for American College Dance Association

Students: **Neal Gallini-Burdick, Olivia Whicheloe, Diana Bloom, Abraham Shaikh, & Lydia Hundley Reed** – Strawhat Auditions