

Fall 2016 Awards

Biological Sciences Department

Faculty Sponsor: Dianne Baker

Students: **Sara Fioretti Laura Mangano &** - Functional analysis of kisspeptin receptors

Students: **Hannah Kass-** Effect of benzo[a]pyrene on expression of Alzheimer's disease marker genes in zebrafish

Faculty Sponsor: Rosemary Barra

Student: **Sabrina Elliott** – CTGF and the Onset of Fibrosis

Faculty Sponsor: Steve Gallik

Student: **Katherine Qualls** – Developing Plasmids for Cellular Localization Studies

Faculty Sponsor: Allan Griffith

Student: **TJ Muratore** – Soil Biogeochemical Effects on the Distribution of a Rare Aquatic Plant

Faculty Sponsor: Lynn Lewis

Students: **Crystal Cauley & Habiba Noor** – Probiotics and Yogurt's Effect on Lactose Intolerance

Student: **Julie Arnold**– Effects of Sweet basil extracts on Encephalomucarditis Virus

Faculty Sponsor: Deborah O'Dell

Student: **Miguel Marx**– A Comparative Paleo molecular Study Muscle Proteins

Student: **Ashley Otto**– Effect of Bisphenol S on Oncogene Expression in Mammary and Prostate Tissue

Faculty Sponsor: Parrish Waters

Students: **Hannah Belski** - Sex-specific mechanisms of BDNF and CRH in the BNST and influences on stress-related pathologies: a study in the neurobiological mechanisms of anxiety

Student: **Allie Branum**- The effects of ambient temperature in a mouse model of cognition

Student: **Emily Ferguson** - Development of a Novel Cognitive Testing Apparatus Using a Touchscreen and an Arduino

Students: **Phoebe Frye**- Food competition as a method to detect hierarchy in rodents

Students: **Ariel Peldunas**- Enriched Environment leads to physiological and structural changes in the olfactory bulb of rodents

Faculty Sponsor: April Wynn

Students: **Renee Hilelson** - How the Presence of the Genes EARLY RESPONSE TO DEHYDRATION 10(ERD_10), SUESS (SEU), AND AINTEGUMENTA (ANT) Affect Developing Arabidopsis thaliana In the Early Stages of Ovule Development and Seed Production

Faculty Sponsor: Deborah Zies

Students: **Jeong Yun Choi** - Determining the Effect of Human MSH2 Mutations Using *S. cerevisiae* as a Model Organism

Chemistry Department

Faculty Sponsor: Nicole Crowder

Student: **Mitchell Greenwood**- Travel to MARCUS, NCUR, and Research on Click Reactions for CO₂ Reduction

Student: **Sarah Heisey** - Travel to MARCUS, NCUR, and Research on Click Reactions for CO₂ Reduction

Faculty Sponsor: Leanna Giancarlo

Student: **Mathew Tovar & Sarah Balenger** – Optimizing the use of Superparamagnetic Iron Oxide Nanoparticles to induce growth arrest in non-metastatic Glioma

Faculty Sponsor: Davis Oldham

Student: **Grace Henry** – Travel to NCUR and Research on synthesis and purification of KASA inhibitors for treatment of mycobacterium tuberculosis infection

Student: **Kwame Bempong** – Travel to NCUR and Research on synthesis of the enantiomers of chiral organic pollutants via enzymatic separation of 2-ethyl--1-hexanol

Classics, Philosophy, & Religion Department

Faculty Sponsor: Angela Pitts

Student: **Liam Deihr** – "Language of Flight in Euripides' Herakles"

Faculty Sponsor: Joseph Romero

Students: **Stephanie Buckler** - FLAVA Conference

Faculty Sponsor: Craig Vasey

Students: **Milen Mehari** - Black Lives Matter Movement: In Philosophy

Computer Science Department

Faculty Sponsor: Stephen Davies

Student: **Hannah Zontine** - Opinion Dynamics Research Paper

Earth & Environmental Science Department

Faculty Sponsor: Ben Kisila

Student: **Kirstin Frye** - Modeling the Effects of Predicted Increased Impervious Surfaces on Phosphorus Fluxes Using the Soil and Water Assessment Tool in Aquia Creek Watershed, VA, USA

Student: **Coalter Hollberg** - The Role of Floodplain and Wetland Soil Properties in Phosphorus Fluctuation in Aquia Creek, a Sub-watershed of the Chesapeake Bay

Students: **Lauren Mosesso & Lillian Johnson** - The impact of sea level rise on phosphorous dynamics in coastal & upstream wetlands of the Rappahannock River, a sub-watershed of the Chesapeake Bay

Economics Department

Faculty Sponsor: Shawn Humphrey

Students: **Marina Castro Meirelles, Nancy Milroy, Alli Jakubek, Caitriona Cobb, Stephanie Vega, Leigh Beamer, Rachel Stanford, & Kelly Mason** – Challenge Discovery

Faculty Sponsor: Margaret Ray

Students: **Christopher Flurry, Todd Desgrosseilliers, Leonard Tarango, Hunter Rose, Olivia Nicotera, Nick Korovin & Alli Jakubek** – Fed Challenge Competition

English, Linguistics, & Communication Department

Faculty Sponsor: Colin Rafferty

Student: **Hallie Heinzen**- Fredericksburg

Geography Department

Faculty Sponsor: Dawn Bowen

Student: **Hallie Heinzen**- Fredericksburg Farmers Market

Faculty Sponsor: Caitlin Finlayson

Student: **Clara Ludtke**- Conference presentation SE Division of the Association of American Geographers

Student: **Meredith Gregory, Clara Ludtke, Christian Meoli, & Michael Ryan**- The Geography & Environmental Impacts of Consumer Food Preferences

Faculty Sponsor: Steve Hanna

Student: **Christine MacKrell**- More than just a Ghost Story; Plantations, Hauntings, and the Trivialization of Dark Tourism Experience

Faculty Sponsor: Joe Nicholas

Students: - Team VA in the World Geography Bowl Competition

Modern Languages and Literature Department

Faculty Sponsor: Mayson Al-Sayed Ahmad

Students: **Catriona Cobb, Lydia Grossman, Justin Severt, Gail Crunkhorn, Emily Rothstein, & Hassa Siddig** - Conference presentations

Faculty Sponsor: Ana Chichester

Student: **Andrea Mora Garcia** - Postmodern Narrative Strategies in Jorge Volpi's En busca de Klingsor (Honors Thesis), Readings & research on Jorge Volpi and postmodern studies

Student: **Riska Perez-Castiello** - Contemporary Cuban Women Writers

Music Department

Faculty Sponsor: Mark Snyder

Students: **Austin O'Rourke & Danny Arslan** - SCI Student National Conference

Students: **Austin O'Rourke, Cole Masaitis, Arthur Dragone, Alex Rodriguez, Mya Payne, & Luke Payne** - West Fork New Music Festival

Physics Department

Faculty Sponsor: Hai Nguyen

Student: **Zaire Sprowal** - Calibration of a High Efficiency Summing Detector (HECTOR) with Gamma Sources

Theatre and Dance Department

Faculty Sponsor: Kevin McCluskey

Student: **Natascha Zelloe** – Advanced Study in Fashion Theory

Faculty Sponsor: Gregg Stull

Student: **Jamie Broadhead** – Directing THE CHILDREN'S Hour

Student: **Meghan Khaziran, Morgan Gresham, Kenneth Bellamy, & Neil Gallini-Burdick** – First Year Play Festival