

## **Art and Art History Department**

Faculty Sponsor: Joseph DiBella

Student: **Hilary Galbreath** - *Traces, Marks, and Reflections: Painting (as) embodied experience*

Student: **Maria Galuszka** - *On the Sublimity of Beauty*

## **Biological Sciences Department**

Faculty Sponsor: Rosemary Barra

Student: **Anne Campbell** - *Effects of Vitamin A Metabolites on p53 Expression and Apoptosis in Cultural Epithelial Cells*

Faculty Sponsor: Dianne Baker

Student: **Carlos Barbery** - *The effects of food deprivation on expression of appetite-regulating neurohormones in zebrafish, *Danio rerio**

Student: **Tina Brehm** - *The masculinizing effects 17- $\beta$  trenbolone on juvenile zebrafish, *Danio rerio**

Students: **Dan Browne and Kristen Lewis** - *The effect of the herbicide atrazine on global gene expression in the zebrafish, *Danio rerio*: a microarray analysis*

Faculty Sponsor: Stephen Fuller

Student: Evan Butler - *Culturing and propagation of rare and endangered plant species (*Rudbeckia heliopsidis* and *Rudbeckia scabrifolia*)*

Student: **Erin Gillin** - *Investigation of lifestyle preference of endangered plant species in Virginia*

Faculty Sponsor: Theresa Grana

Student: **Paul Coleman Eskridge** - *Phylogenetic Analysis and Diversity of Free-living Terrestrial Nematodes in the Genus *Caenorhabditis**

Student: **Mejga Mukhtarzada** - *Anatomical and Developmental Differences Among *Caenorhabditis* Species*

Faculty Sponsor: Alan Griffith

Student: **Margaret Walker** - *Best Dam Project Ever: Plant Distribution after Dam Removal*

Faculty Sponsor: Lynn Lewis

Student: **Zein Al-Atrache** - *Identification and characterization of *Bacillus thuringiensis*-specific bacteriophages*

Faculty Sponsor: Kathryn Loesser-Casey

Student: **Syeda (Samara) Baksh** - *Cell Fusion and the Growth Factor IGF in Myocardial Repair*

Student: **Leslie Valenzuela** - *Effects of Exercise and Estrogen on Atherosclerosis*

Faculty Sponsor: Deborah O'Dell

Student: **Kelsey Meyer** - *The Effect of Cell Phone radiation on Susceptible Nervous Tissue*

Student: **Kelsey Voss** - *Identifying Target Genes in the ERR $\gamma$  Pathway Resulting from BPA Exposure in Breast Cancer*

### **Chemistry Department**

Faculty Sponsor: Janet Asper

Students: **Mae Carpenter, Robert Higgins, Rafia Virk, and Tolani Adebajo** - *Development of New Protective Groups for Alkylguanidines*

Faculty Sponsor: Nicole Crowder

Student: **Karmel James** - *Chemically Modifies Copper Electrode Surfaces for Electrocatalytic Applications*

Student: **Eric Johnson** - *The Use of Click Chemistry for the Creation of a Universal Platform for Metal Oxide Functionalization*

### **Earth and Environmental Sciences Department**

Faculty Sponsor: Ben Kisila

Student: **Elyse Clark** - *Comparative Analysis of the Environmental Evolution of Two Virginia Lakes: Lake Pelham and Lake Moomaw*

Student: **Elizabeth Gillispie** - *Spatial and Historical Analysis of the Distribution of Polycyclic Aromatic Hydrocarbons (PAH) in surface Water Bodies in Virginia*

Faculty Sponsors: Melanie Szulczewski and Chuck Whipkey

Students: **Gregory Baugher and Marianne Mannix** - *Trace Metal Analysis in Fredericksburg City Cemetery Soils and Groundwater*

Faculty Sponsor: Melanie Szulczewski

Students: **Marianne Mannix and Mina Recta** - *Continuing Acid Mine drainage Impacts On the Environmental Health of the Soils, Streams, and Macroinvertebrates in a VA Ecosystem*

Faculty Sponsors: Neil Tibert and Jodie Hayob

Student: **Henry Talley** - *Late Holocene Sedimentation and Clay Mineralogy of the Rappahannock and Potomac Estuaries from Scanning Electron*

### **Economics Department**

Faculty Sponsor: Shawn Humphrey

Students: **Sarah Alvarez, Ashley Cameron, Nicole Cochran, Brian Downing, Tatiana Famarzi, Russell Scott, Emily Sherman, and Santiago Suiero** - *La Ceiba Microfinance Initiative*

### **Geography Department**

Faculty Sponsor: Dawn Bowen

Student: **Carley McCreedy** - *The Impact of Scholarships on Q'eqchi' Maya Young Women's Lives and Communities in Alta Verapaz, Guatemala*

Student: **Wesley Roberts** - *Mapping Illegal Deforestation in the Yalijux Mountains of Alta Verapaz, Guatemala*

Student: **David Wilcox** - *An Evaluation of an Environmental Education Program in Primary Schools of the Yalijux Mountain Communities of the Alta Verapaz, Guatemala*

Faculty Sponsor: Joseph Nicolas

Students: **7 Students** - *World Geography Bowl competition and attendance of Southeast Division of the Association of American Geographers annual meeting*

### **History and American Studies Department**

Faculty Sponsor: Jess Rigelhaupt

Student: **Lindsay Cutler** - *"History, Knowledge, and Native American Politics at the Mashantucket Pequot Museum and Research Center"*

### **Mathematics Department**

Faculty Sponsor: Keith Mellinger

Student: **Kelly Scott** - *Present Research at the Mathematical Association of America Fall Regional Meeting at CNU*

