

Undergraduate Research Projects
Fall 2010

| Student Name | Faculty Sponsor | Funded Project |
|----------------------------------|-----------------------|---|
| Art | | |
| Jacob Argarin | Rosemary Jesionowski | Materials for project, "Exploration of Humans and Technology Through Multiple Imaging" |
| Lauren Scott | | Materials for yearlong project, "Humanism in Staged Photography" |
| Biology | | |
| Laila Almahdali | Kathryn Loesser-Casey | Supplies and travel expenses to VA Academy of Sciences meeting for yearlong project, "How VEGF and HGF Affects Adipose Stem Cell Migration" |
| Christine Bax | Deborah Zies | Supplies for yearlong project, "Determining RAI1 Binding Sites in the <i>CLOCK</i> , <i>BDNF</i> and <i>CMKLRI</i> " |
| Alanna Gray | Lynn Lewis | Supplies and travel expenses to VA Branch of the American Society for Microbiology Conference for project "Bacteriophage Therapy for Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)" |
| Catherine Johnson | | Supplies and travel expenses to VA Branch of the American Society for Microbiology Conference for project, "Susceptibility of <i>Bacillus anthracis</i> to <i>Bacteriophages</i> " |
| Thien Phan | | Supplies and travel expenses to VA Branch of the American Society for Microbiology conference for yearlong project, " <i>Mycobacteriophage Genomics</i> " |
| Hannah McLean | Abbie Tomba | Supplies and travel expenses to site for yearlong project, "Crayfish Predation on <i>Corbicula Fluminea</i> in relation to other prey items in the Rappahannock River Watershed" |
| Adil Quraish | Stephen Gallik | Supplies and travel expenses to VA Academy of Sciences meeting for yearlong project, "Development of a Simplified Method for Detecting Nuclear Import in Rat <i>hepatocyte nuclei</i> " |
| Anum Shalkh | Deborah O'Dell | Supplies and travel expenses to VA Academy of Sciences meeting for yearlong project, "Effects of Combined Vitamin E and C Treatment on Plaque Formation in Alzheimer's disease" |
| Jessica Sine | Dianne Baker | Supplies for yearlong project, "The effect of atrazine on the thyroid axis in zebrafish" |
| Sarah Tryon | | Supplies for yearlong project, "The effect of dietary fat on the expression of appetite hormones in zebrafish, <i>Danio rerio</i> " |
| Borwyn (Ann) Wang | Theresa Grana | Materials and travel expenses to VA Academy of Sciences meeting to present yearlong project; "Comparative Developmental and Evolutionary Studies of New <i>Caenorhabditis</i> Species in Virginia" |
| Chemistry | | |
| Sarah Almahdali and Patrick Wood | Nicole Crowder | Materials and travel expenses to present poster of yearlong project; "Synthetic Routes to Modified Electrodes for the Chemical Reduction of Carbon Dioxide;" VA Section of the American Chemical Society conference |
| Elena Fernandez, Dalia Natour | Kelli Slunt | Supplies for yearlong project, "Analysis of Estrogen Content in Various Types of Milk" |
| Ramsey Hannah and Lucas Reed | Roy Gratz | Supplies for yearlong project, "Synthesis of 1,3-Bis (5-heptyl-1,2,4-oxadiazoyl)benzene and 1, 4-Bis(5-heptyl-1, 2, 4-oxadiazoyl)benzene" |

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| <i>Chemistry</i> | | |
| Mary Catherine Thompson | Leanna Giancarlo | Supplies for yearlong individual study, "Analysis of Copper Artifacts from Indian Bone Ossuary" |
| <i>Classics, Religion and Philosophy</i> | | |
| Meagan Smith | Liane Houghtalin | Travel expenses for research for senior thesis, "Exploring Silchester: A Journey of Culture and Space" |
| <i>Computer Science</i> | | |
| Jacob Bowman | Jennifer Polack | To purchase an 8GB iTouch for project, "The Effectiveness of Entertainingly Educational Electronics" |
| Kevin Hamerski | | To purchase Java software for project, "Comparing and contrasting different Java J2EE frameworks" |
| Dustin Lieske | | To purchase an 8GB iTouch for project, "Developing applications for the iPhone/iPod Touch platform" |
| <i>Earth and Environmental Sciences</i> | | |
| Miriam Cross | Ben O. Kisila | Travel expenses to present poster, "Geospatial analysis of Redback salamander distribution in Culpeper & Fauquier Counties, VA" Geological Society of America Meeting |
| Ian Pope | | Travel expenses to present poster, "Soil Erosion and Sediment Fluxes Analysis: A Watershed Study of the Ni Reservoir, Spotsylvania County, VA" Geological Society of America Meeting |
| Chelsea Wegner | | Materials for project "The Environmental Evolution of the Chincoteague Lagoon Marsh system as Inferred from the Sediment Record" |
| Robin Ayers, Carly Byers, and Isabel Moore | Melanie Szulczewski | Present poster, "Investigation of the Recovery of the Waters, Soils, and Macroinvertebrate Populations of Acid Mine Drainage-Affected Contrary Creek, Louisa County, VA;" Soil Science Society of America's International Conference |
| Lindsay Walker | Neil Tibert | Supplies for project, "A Record of Late Holocene Paleosalinity and Sedimentation in the Rappahannock Estuary, VA, via Microfossil and Geochemical Analysis" |
| <i>Economics</i> | | |
| Ashley Cameron, Benjamin Saunders, Brian Downing, Caitlin Payne, Elizabeth Conrad, Laura Dick, Megan Higgs, Meredith Greenwell, Rebecca Presor, Sarah Alvarez, Tatiana Famarzi and Thomas Tutor | Shawn Humphrey | Travel expenses for 12 students to continue established work, "La Ceiba Micro-finance Initiative" and to present final report in the Spring 2011 (yearlong project) |
| <i>Geography</i> | | |
| 7 Students | Joseph Nicolas | Students to participate in team competition (Geography Bowl);SE Division of the Assn. of American Geographers |

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| <i>Geography</i> | | |
| Zachary Wehrmann | Jacqueline Gallagher | Present poster "Monitoring of Erosion of Hazel Run, Fredericksburg, VA;" Annual SE Division of the Assn. of American Geographers meeting |
| <i>History</i> | | |
| Christine Lauer and Sadie Smith | Jess Rigelhaupt | Present paper, "Oral History and Documenting James Farmer's Legacy at the University of Mary Washington;" Oral History Association Conference |
| Deborah Shepherd | | Travel expenses to collect research materials for senior thesis, "The New York World's Fair, 1939-1940" |
| <i>Physics</i> | | |
| Aristides Julius, Matthew Motley, Joseph Thompson, and Robert Thompson | Susan Matts | Supplies for project, "An Examination of the Fundamental Properties of Photovoltaic Materials Used in Solar Cells" and attend World Green Energy Symposium Conference |
| <i>Psychology</i> | | |
| Nicholas Jacobs | Emile Lester | Travel expenses to conduct surveys in two schools, collect statistical analysis and submit completed yearlong project, "Democratic Schools: Evaluating the Effectiveness of Citizenship Instruction in Public Education" and submit research to academic journal |