



## COLLEGE SCIENCE SCHOLARS

*A Joint Program of the Departments of  
Astronomy, Biology, Chemistry, Computer Science,  
Environmental Sciences, Mathematics, Physics, Psychology and Statistics*

# College Science Scholars Research Symposium October 17th, 2012, 4 - 6pm, 141 Gilmer

### Oral Presentations

Joshua Pan, 3<sup>rd</sup> Year CSS Student  
“Using  $Pb_4Br_{11}^{3-}$  Luminescence to Detect Lead Concentration in Water”  
Mentor: Prof. James Demas, UVa Chemistry;  
Topic Area: Luminescence

Matthew Mann, 3<sup>rd</sup> Year CSS Student  
“Geology of the Rileyville Quadrangle”  
Mentor: Prof. Thomas Biggs, UVa Environmental Sciences;  
Topic Area: Geology

David Wu, 4<sup>th</sup> Year CSS Student  
“Regulation of the Cdt2 Oncogene in Cancer”  
Mentor: Prof. Anindya Dutta, UVa Biochemistry and Molecular Genetics; Topic Area: Cancer Biology

Nate Hirscher, 3<sup>rd</sup> Year CSS Student  
“Mesoporous Silica Nanoparticle Supported Platinum Catalyst for Oxidative Olefin Hydroarylation.”  
Mentor: Prof. T. Brent Gunnoe, UVa Chemistry;  
Topic Area: Chemistry

Angang Li, 4<sup>th</sup> Year CSS Student  
“Numerical modeling of water flow and sea temperatures in response to heating at Bocas del Toro, Panama”  
Mentor: Prof. Matthew Reidenbach, UVa Environmental Sciences; Topic Area: Hydrology

Gina Kim, 4<sup>th</sup> Year CSS Student  
“Establishing transgenic Bright Yellow-2 cell lines for use in high throughput screen for parasite effectors”  
Mentor: Prof. Michael Timko, UVa Biology;  
Topic Area: Plant Biology

### Poster Presentations

Kathryn Kingsbury, 2<sup>nd</sup> Year CSS Student  
“A Survey of Melanopsin Expression in the Mouse”  
Mentor: Prof. Ignacio Provencio, UVa Biology;  
Topic Area: Neuroscience  
Van Besien CSS Summer Award in the Biological Sciences

Rebecca Walker, 2<sup>nd</sup> Year CSS Student  
“Nitrogen cycling in old growth and secondary growth forests in the Mid-Atlantic”  
Mentors: Jennifer McGarbey, graduate student,  
& Prof. Howard Epstein, UVa Environmental Sciences;  
Topic Area: Ecology

Adrian Mead, 2<sup>nd</sup> Year CSS Student  
“A Chandra X-ray Observation of the Galaxy Cluster Abell 3653: The Origin of Rapidly Moving BCG Galaxies”  
Mentor: Prof. Craig L. Sarazin, UVa Astronomy;  
Topic Area: Astrophysics

Nicholas Lee, 2<sup>nd</sup> Year CSS Student  
“The Role of H2AX in the DNA Damage Response and the Regulation of Cdt2”  
Mentor: Prof. Anindya Dutta, UVa Biochemistry and Molecular Genetics; Topic Area: Cancer Biology

Sapir Nachum, 2<sup>nd</sup> Year CSS Student  
“Signaling Underlying Wallerian Degeneration”  
Mentor: Prof. Christopher Deppmann, UVa Biology;  
Topic Area: Neuroscience

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