

## **Macaulay Honors College at CSI**

### **Recent Research Projects Include:**

#### **American Studies**

Bruce Springsteen and an American Dean - The Singer Songwriter as Pastoral Critic

#### **Biochemistry**

Unraveling the Biophysical Basis of Tx7335-Induced KcsA Activation

#### **Biology**

Analysis of Tau Over-expression in Breast Cancer Cell Lines

Effects of Dibutylphthalate on Quinolinate Phosphoribosyl Transferase Activity in *Candida albicans*  
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#### **Biology - Ornithology**

Long Distance Dispersal - An Important Mechanism for Range Expansion

#### **Biology - Neuroscience**

The Effects of Developmental Hypothyroidism on Spatial Memory and Neurogenesis

Mechanism of Phosphorylated Tau Translocation into the Nucleus

Effect of Curcumin on Phosphorylated Tau in Transgenic *Drosophila Melanogaster* Flies

#### **Business - Public Finance**

Quantifying the Aggregate Net Income from the Port Authority Staten Island Bridges

#### **Chemistry**

Towards Making Hemo-Compatible Super-Repellent Materials

Engineering Printed Polymeric Superhydrophobic Surfaces

The Fabrication and Analysis of Carbon based Thermal Interface Materials

#### **Computer Science**

Building a Semantic Kernel for Text Classification: Machine Learning

#### **Economics**

The Ethical Responsibility of Consumers in the Free Market.

#### **Education**

Creating a School Environment to Eliminate Shy Tendencies of Children

#### **Engineering Science**

ASME Design Competition - Acqua Macchina/Poseidon

#### **English**

The Dynamics of Role Play in *Tartuffe*, *The Rover*, and *She Stoops to Conquer*

Ancient Myths, Monsters, and Gods in Modern Society: Idols, Symbols, and Monikers

The Demise of the Newspaper: The Rise of Technology  
The Fallen Seed - The Rise and Fall of Persephone in Greek and Roman Mythological Texts

### **History**

Bang for Your Buck in Baseball Stadiums: An Examination of Yankee Stadium and Camden Yards  
Politics and Sexual Politics in South Africa

### **Information Technology**

Social Media Based Grants Management System

### **Mathematics**

Competitive Lotka-Volterra Equation and Existence of Periodic Orbits  
Mathematically Mapping the Cosmos; Contemporary Topological Applications in Cosmology

### **Music**

Senior Guitar Recital

### **Nursing**

Best Practices for the Nursing Care of Older Adults with Congestive Heart Failure

### **Physics/Astrophysics**

Quantative Spectroscopic Analysis of High Resoloution M, L, and T Dwarf Spectra  
Youth Indicators in Very Cool Stars

### **Political Science**

When Colombia's Guerilla Groups and Paramilitaries Fight, Human Rights Pay the Price  
The New York City Mayoralty and Public Opinion

### **Psychology**

Effect of Dietary Taurine on Inhibitory Learning in Aged Pigeons  
Interference of the Consolidation of Emotional Learning in Pigeons  
An Analytical Study of Quantifier Comprehension in School-Aged Children