Congratulations to the seventy UConn undergraduates who have been offered SURF Awards for Summer 2013. Thank you to your faculty mentors and other faculty members who have supported student applications to the SURF Award Program. Undergraduate research is one of the most engaging learning experiences available to UConn undergraduates!

1. **Kaitrin Acuna — Visual Arts — YOG: 2015**  
   Project Title: *Sculpting Sound: A Book on the Art and Science of Synesthesia*  
   Faculty Mentor: Dr. Anke Finger, Department of Literatures, Cultures, & Languages, College of Liberal Arts & Sciences  
   Named Award: Dr. Roger Cherney Award

2. **Rachel Adams — Biomedical Engineering — YOG: 2015**  
   Project Title: *Development of a Tissue Treatment and Sorting Protocol in the Fabrication of Transcatheter Aortic Valves*  
   Faculty Mentor: Dr. Wei Sun, Departments of Biomedical and Mechanical Engineering, School of Engineering

3. **Rebecca Albanese — Biological Sciences — YOG: 2014**  
   Project Title: *Exploring the Influence of Parental Race/Ethnicity, Education Level and Child Gender on Paternal Feeding Style*  
   Faculty Mentor: Dr. Amy Mobley, Department of Nutritional Sciences, College of Agriculture & Natural Resources

   Project Title: *Human Trafficking Policy: An interdisciplinary Deconstruction and Evaluation*  
   Faculty Mentor: Dr. Cathy Schlund-Vials, Department of English and Asian American Studies Institute, College of Liberal Arts & Sciences

5. **Milos Atz — Chemical Engineering — YOG: 2014**  
   Project Title: *A Study of Amyloid Protein Aggregation Kinetics*  
   Faculty Mentor: Dr. Mu-Ping Nieh, Department of Chemical and Biomolecular Engineering, School of Engineering

   Project Title: *Comparison of Nuclear and Mitochondrial Gene Phylogenies for the New Zealand Cicada Genus Kikihia*  
   Faculty Mentor: Professor Chris Simon, Department of Ecology and Evolutionary Biology, College of Liberal Arts & Sciences
   Project Title: *Patient Self-Management Pain Strategies and Pain during Hospitalization*
   Faculty Mentor: Dr. Deborah McDonald, School of Nursing

   Project Title: *Thermoregulatory responses of runners following a warm-weather road race*
   Faculty Mentor: Professor Douglas Casa, Department of Kinesiology, NEAG School of Education
   Named Award: Treibick Scholar

   Project Title: *Change in Salinity Preference of Threespine Stickleback during Development*
   Faculty Mentor: Dr. Eric Schultz, Department of Ecology and Evolutionary Biology, College of Liberal Arts & Sciences
   Named Award: Friends of CLAS Scholarships

    Project Title: *What is the Impact of Apex Predators on Black-Backed Jackals?*
    Faculty Mentor: Dr. Morty Ortega, Department of Natural Resources and the Environment, College of Agriculture & Natural Resources

    Project Title: *Molecular Simulations of Virus Nanoindentation*
    Faculty Mentor: Dr. Eric May, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
    Named Award: Wyand Family Honors Scholarship

    Project Title: *The Vertical Distribution of Soil Phosphorus Under Managed Turfgrass in Connecticut and the Dependency of Turfgrass P Status on Past Management Decisions*
    Faculty Mentor: Professor Thomas Morris, Department of Plant Science and Landscape Architecture, College of Agriculture & Natural Resources

    Project Title: *Assessing a Novel Method for Bone Marrow Aspiration in Pediatric Oncology*
    Faculty Mentor: Professor Arlene Albert, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
    Co-Investigators: Dr. Michael Isakoff, Hematology/Oncology Department, Connecticut Children’s Medical Center
    Dr. Sharon Smith, Emergency Department, Connecticut Children’s Medical Center
    Named Award: Doug Anton Award
Project Title: An OCT4 Alternative; Analyzing the Role of CDH1 in Reprogramming
Faculty Mentor: Dr. Craig Nelson, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Named Award: Alan Bernstein Memorial Award

15. Sonny Caplash — Biological Sciences — YOG: 2015
Project Title: Identification of Novel RNA Targets of the Leukemic Fusion of Protein RBM15-MKL1
Faculty Mentors: Dr. Stephanie Halene, School of Medicine, Yale University, and Dr. Mark Peczuh, Department of Chemistry, College of Liberal Arts & Sciences

Project Title: Exploration of Environmental Factors Affecting Breastfeeding Duration in an Exclusively Breast Milk NICU
Faculty Mentor: Professor Jacqueline McGrath, School of Nursing

Project Title: Pitch Variation Cues for Word Segmentation: A Comparison of Tonal and Non-Tonal Language Speakers
Faculty Mentor: Dr. Emily Myers, Department of Speech, Language, and Hearing Sciences, College of Liberal Arts & Sciences
Named Award: Sterling-Wasserman Family Award

Project Title: Post-translational Modifications of the XLR3 Protein
Faculty Mentor: Dr. Michael O’Neill, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences

Project Title: Facilitated Transport of Soil Bacteria by Protists
Faculty Mentor: Dr. Leslie Shor, Department of Chemical and Biomolecular Engineering, School of Engineering
Named Award: The Robert Ekman SEED Award for SURF

Project Title: Development of a Mouse Model for the Disease of Heterotopic Bone Formation, Fibrodysplasia Ossificans Progressiva
Faculty Mentor: Professor David Goldhamer, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Named Award: Coric Family Honors SURF Award

Project Title: Modifications of Transcatheter Aortic Heart Valve Suturing and Design
Faculty Mentor: Dr. Wei Sun, Departments of Biomedical and Mechanical Engineering, School of Engineering
Project Title: *Natural Knowledge and the Anthropology of Choice*
Faculty Mentor: Professor Christopher Clark, Department of History, College of Liberal Arts & Sciences
Named Award: Virginia DeJohn Anderson Award

Project Title: *Developing a Method for the Early Detection of Type 1 Diabetes*
Faculty Mentor: Professor Michael Lynes, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Named Award: Ocean Rain Family Foundation Fund for SURF

Project Title: *In Vitro RNAi Knockdown of the Meiosis Specific Protein, Xlr3 (X-Linked Lymphocyte-Regulated 3 Complex)*
Faculty Mentor: Dr. Michael O’Neill, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences

Project Title: *Speech Perception in Persons with Aphasia*
Faculty Mentor: Dr. Emily Myers, Department of Speech, Language, and Hearing Sciences, College of Liberal Arts & Sciences
Named Award: Friends of CLAS Scholarships

Project Title: *Investigation into the development of Magicicada of different species throughout the Eastern United States*
Faculty Mentor: Professor Chris Simon, Department of Ecology and Evolutionary Biology, College of Liberal Arts & Sciences

27. Clancy Emanuel — Electrical Engineering — YOG: 2016**
Project Title: *Spectroscopic and Theoretical Investigation of the Low-Frequency Dynamics of Amino Acids*
Faculty Mentor: Professor Robert Birge, Department of Chemistry, College of Liberal Arts & Sciences

Project Title: *Astaxanthin's Potential Therapeutic Value in NASH*
Faculty Mentor: Dr. Ji-Young Lee, Department of Nutritional Sciences, College of Agriculture & Natural Resources

29. Christopher Fekete — Physiology and Neurobiology — YOG: 2014
Project Title: *Understanding the Molecular Mechanisms Involved in the Formation and Maintenance of GABAergic Synapses*
Faculty Mentor: Professor Angel de Blas, Department of Physiology and Neurobiology, College of Liberal Arts & Sciences
Project Title: **Highly Active and Selective Catalytic Systems for Biomass and Photocatalytic Conversion**
Faculty Mentor: Professor Steven Suib, Department of Chemistry, College of Liberal Arts & Sciences
Named Award: Dr. John Tanaka Academic Enhancement Fund for Honors

Project Title: **Hatshesut and Carter: A Story Lost in Time**
Faculty Mentor: Dr. Michael Bradford, Department of Dramatic Arts, School of Fine Arts

32. Steven Hong — Molecular and Cell Biology — YOG: 2014
Project Title: **Localization and Function of EspG and Host G-Proteins during Enterohemorrhagic E. Coli Infection**
Faculty Mentor: Dr. Kenneth Campellone, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Named Award: Ocean Rain Family Foundation Fund for SURF

Project Title: **Coordination: Collectivity and Type Shifting**
Faculty Mentor: Dr. Jon Gajewski, Department of Linguistics, College of Liberal Arts & Sciences
Named Award: Friends of CLAS Scholarships

34. Myles Jones — Psychology — Physiology and Neurobiology — YOG: 2014
Project Title: **The Effect of Fluoxetine on Anhedonic Symptoms in a Tetrabenazine Induced Rat Model of Depression**
Faculty Mentor: Professor John Salamone, Department of Psychology, College of Liberal Arts & Sciences
Named Award: Gerald Blume Summer Undergraduate Research Fund Award

Project Title: **Working for and Against the Concept of Nation in Latino and Albania Literature: Junot Diaz and Fatos Kongoli**
Faculty Mentor: Dr. Guillermo Irizarry, Department of Literatures, Cultures, and Languages, College of Liberal Arts & Sciences
Named Award: Robert and Elizabeth Subkowsky Award

Project Title: **Exploring Irregularities in Language: What are their origins and why do they persist?**
Faculty Mentor: Dr. Whitney Tabor, Department of Psychology, College of Liberal Arts & Sciences

37. Julie Klaric — Biological Sciences — YOG: 2015
Project Title: **Discovering the Sequence Specificity of the BGLF-4 Protein Kinase in Epstein-Barr Virus and Predicting Host Substrates**
Faculty Mentor: Dr. Daniel Schwartz, Department of Physiology and Neurobiology, College of Liberal Arts & Sciences
Project Title: *Dissecting the Role of Cazi in Centromere Formation*
Faculty Mentor: Dr. Barbara Mellone, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences

Project Title: *The Magnetocaloric Effect and Magnetic Refrigeration*
Faculty Mentor: Dr. Menka Jain, Department of Physics, College of Liberal Arts & Sciences

Project Title: *Magnetic-Beaded Antibody Facilitation of Recombinant Vaccinia Virus Production*
Faculty Mentor: Dr. Paulo Verardi, Department of Pathobiology and Veterinary Sciences, College of Agriculture & Natural Resources

41. Briana Lechkun — Natural Resources — YOG: 2014
Project Title: *Effects of Nectar Robbing in Colombia*
Faculty Mentor: Dr. Margaret Rubega, Department of Ecology and Evolutionary Biology, College of Liberal Arts & Sciences

42. Shang Lin (Tommy) Lee — Biological Sciences — Psychology — YOG: 2014
Project Title: *Teaching Rats a Temporal Sequence in a Water Maze*
Faculty Mentor: Professor Etan Markus, Department of Psychology, College of Liberal Arts & Sciences
Named Award: Friends of CLAS Scholarships

43. Prisma Lopez — Molecular and Cell Biology — YOG: 2014
Project Title: *Creating a Valuable Tool for the Analysis of Protein Kinase R Interaction with Various RNA Ligands*
Faculty Mentor: Professor James Cole, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Named Award: The McKinney-Lindsay Family Award

Project Title: *Gender, Ethnicity, and Self-Esteem: A Comparison of African American and Hispanic Adolescent Girls*
Faculty Mentor: Dr. Annamaria Csizmadia, Department of Human Development and Family Studies, College of Liberal Arts & Sciences, and Dr. Rhiannon Smith, Department of Psychology, College of Liberal Arts & Sciences

45. Mary Mackie — Political Science — Human Rights — YOG: 2014
Project Title: *Indigenous Environmental Justice through Human Rights: Extractive Industries, the Navajo Nation, and UNDRIP*
Faculty Mentor: Dr. Barbara Gurr, Women’s, Gender, and Sexuality Studies Program, College of Liberal Arts & Sciences
Named Award: Dr. Bill DeWalt SURF Award
Project Title: Probing the Molecular Interactions of Vitamin-D3 in Inhibition of the Hedgehog Signaling Pathway
Faculty Mentor: Dr. Kyle Hadden, Department of Pharmaceutical Sciences, School of Pharmacy
Named Award: Gerald Blume Summer Undergraduate Research Fund Award

47. Richika Makol — Physiology and Neurobiology — Psychology — YOG: 2014
Project Title: Function of a Dyslexia Associated Gene in Human Neurons
Faculty Mentor: Professor Joseph LoTurco, Department of Physiology and Neurobiology, College of Liberal Arts & Sciences
Named Award: Patricia A. Hansen SURF Award

Project Title: Story Goodness in Emerging and Established Sign Languages
Faculty Mentor: Dr. Marie Coppola, Department of Psychology, College of Liberal Arts & Sciences
Named Award: Friends of CLAS Scholarships

49. Maschal Mohiuddin — Biological Sciences — Journalism — YOG: 2015**
Project Title: Application of Q State Mutants of Bacteriorhodopsin in an Artificial Retina
Faculty Mentor: Professor Robert Birge, Department of Chemistry, College of Liberal Arts & Sciences

Project Title: How to Make the Ideal Shoe: Postmemory and Artists’ Books
Faculty Mentor: Dr. Deborah Dancy, Department of Art and Art History, School of Fine Arts
Named Award: Christopher M. Lewis Fund Award

Project Title: Detecting Toxins and Toxicants: Limits of Detection for Novel SPR Technology
Faculty Mentor: Professor Michael Lynes, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Named Award: Gary Karp Award

Project Title: Gullah Voices: Traditions and Transformations
Faculty Mentor: Professor Mary Ellen Junda, Department of Music, School of Fine Arts

53. Takumi Otsuka — Biomedical Engineering — YOG: 2015
Project Title: The Role of Dyslexia-Associated Gene Dcfc2 in Pre-NMDAR Regulation in Thalamocortical Pathways
Faculty Mentor: Professor Joseph LoTurco, Department of Physiology and Neurobiology, College of Liberal Arts & Sciences
Project Title: Investigating the Role of Dietary Fat Supplementation in the Treatment of Premenstrual Syndrome in Minority Students
Faculty Mentor: Dr. Michelle Judge, School of Nursing
Named Award: Mr. Michael Alpert and Ms. Ariana Napier Honors and Enrichment Scholarship

55. Ragini Phansalkar — Biological Sciences — YOG: 2014
Project Title: Identifying the interaction between histone CID and its chaperone VAL1
Faculty Mentor: Dr. Barbara Mellone, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Named Award: Treibick Scholar

Project Title: Investigating the Development of the Shape Bias for Word Learning in Children with Autism Spectrum Disorders
Faculty Mentor: Professor Letitia Naigles, Department of Psychology, College of Liberal Arts & Sciences

Project Title: Centromere Drive as a Model of Evolution in Marsupial Hybrids
Faculty Mentor: Professor Rachel O’Neill, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Named Award: Treibick Scholar

58. Margaret Rowland — Psychology — YOG: 2014
Project Title: Reversing the Effort-Related Impairments Induced by Tetrabenazine with the Selective Serotonin Reuptake Inhibitor Fluoxetine
Faculty Mentor: Professor John Salamone, Department of Psychology, College of Liberal Arts & Sciences

Project Title: Characterizing the Interactions between WHAMM and Phospholipids
Faculty Mentor: Dr. Kenneth Campellone, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Named Award: Ocean Rain Family Foundation Fund for SURF

60. Jessie Scott — Biological Sciences — YOG: 2014
Project Title: Characterization of a Putative Cephalotoxin in the Hemocytes of Euprymna Scolopes
Faculty Mentor: Dr. Spencer Nyholm, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Project Title: Economic Factors of IFRS Adoption in China, Brazil, and India
Faculty Mentor: Professor Mohamed Hussein, Department of Accounting, School of Business
Named Award: Mathew Jasinski Award

Project Title: Doping in High-Temperature Superconductivity
Faculty Mentor: Professor Barrett Wells, Department of Physics, College of Liberal Arts & Sciences
Named Award: Trimble Family Award

63. Annie Stupik — Natural Resources — YOG: 2014
Project Title: American Kestrel Juvenile Dispersal Patterns and Survival in Connecticut
Faculty Mentor: Dr. Chadwick Rittenhouse, Department of Natural Resources and the Environment, College of Liberal Arts & Sciences

64. Savas Tsikis — Molecular and Cell Biology — YOG: 2014
Project Title: Mutagenicity of 8-oxoguanine lesion adjacent to an abasic site in Escherichia coli cells proficient or deficient in Y-family DNA polymerase(s)
Faculty Mentor: Professor Ashis Basu, Department of Chemistry, College of Liberal Arts & Sciences
Named Award: Friends of CLAS Scholarships

Project Title: Icosahedral Virus Capsid Assembly: Investigations of Size Determination in the P22 Coat Protein
Faculty Mentor: Professor Carolyn Teschke, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences

Project Title: Minor Spliceosome is Required for the Survival of Neurons during Retinal Development
Faculty Mentor: Dr. Rahul Kanadia, Department of Physiology and Neurobiology, College of Liberal Arts & Sciences

67. Alex Ward — Biological Sciences — YOG: 2014
Project Title: Bioproduction and Construction of a Self-Assembling Nanoparticle Malaria Vaccine
Faculty Mentor: Dr. Peter Burkhard, Department of Molecular and Cell Biology, College of Liberal Arts & Sciences
Named Award: Friends of CLAS Scholarships

68. Ashley West — Pharmacy — YOG: 2014
Project Title: Immunosuppressant Activity in Compounds Isolate from Marine Bacteria
Faculty Mentor: Dr. Marcy Balunas, Department of Pharmaceutical Sciences, School of Pharmacy
Project Title: Dual AC and DC Output Power Electronic System for Solar Photovoltaic Applications
Faculty Mentor: Dr. Ali Bazzi, Department of Electrical and Computer Engineering, School of Engineering

70. Arielle Yoon – Anthropology – YOG: 2014
Project Title: Machismo and Societal Response to Sexual Assault and Rape Victims in Buenos Aires
Faculty Mentor: Professor Francoise Dussart, Department of Anthropology, College of Liberal Arts & Sciences

Note:
** Students who have elected NOT to accept their SURF award due to other opportunities for Summer 2013.