University of Connecticut

FRONTIERS
IN UNDERGRADUATE RESEARCH

SIXTEENTH ANNUAL
POSTER EXHIBITION

A CELEBRATION OF SCHOLARSHIP,
INNOVATION, CREATIVITY, AND COLLABORATION

April 12, 2013
3:30 p.m. to 4:30 p.m.

April 13, 2013
11:30 p.m. to 2:00 p.m.

Wilbur Cross North and South Reading Rooms
Sponsored by
The University of Connecticut

Office of Undergraduate Research
Enrichment Programs
Honors Program
About Frontiers in Undergraduate Research

The Frontiers Poster Exhibition is a multidisciplinary research forum and the largest showcase of undergraduate research, scholarship, and creative projects at the University of Connecticut. Frontiers 2013 is the sixteenth annual Frontiers event sponsored by the Office of Undergraduate Research (OUR). This year’s poster exhibition includes 218 students presenting posters for 175 research projects.

The projects span the disciplines and include both independent research and work done in collaboration with other undergraduates as well as graduate student and faculty mentors. The presenters are among the top students at UConn and include Honors students, University Scholars, winners of OUR funding competitions, and winners and nominees of prestigious national scholarships. We hope you enjoy meeting our wonderful students and learning about their exciting work.

About the Office of Undergraduate Research

The Office of Undergraduate Research (OUR) exists to encourage and support undergraduate research at the University of Connecticut. Our office provides information and resources to encourage all students to pursue undergraduate research, as well as several funding programs to support the students and their faculty mentors.

Many of the Frontiers presenters have received financial support for their projects from the OUR, which awarded approximately $342,000 in 2011-2012 to students for their research work over the summer and during the academic year. These awards are funded by the Office of Undergraduate Research with generous support from the Deans of the schools and colleges, the Provost’s office, and private donations from many, many alumni, parents, and other friends of UConn and undergraduate research.
Schedule of Events

Poster Exhibition  
Friday, April 12, 2013  
3:30 p.m. – 4:30 p.m.  
Saturday, April 13, 2013  
11:30 a.m. – 2:00 p.m.

Student and Faculty Reception  
Friday, April 12, 2013  
4:30 p.m. – 5:30 p.m.

UCONN Trumpet Quartet  
Russel Allyn, David Dorfman, Meagan Ferreira, Lesley Knaack

Introduction and Welcome  
Margaret Lamb, Director, Office of Undergraduate Research and Senior Associate Director, Honors Program

Keynote Speaker  
Steven L. Suib, Board of Trustees Distinguished Professor, Department of Chemistry, College of Liberal Arts & Sciences

Closing Remarks  
Jennifer Lease Butts, Assistant Vice Provost for Enrichment Programs, and Director, Honors Program
Poster Listing by School, College, or Program

This listing of projects includes the undergraduate student authors and their faculty mentors. Many projects also include the contributions and mentorship of dedicated graduate students and post-doctoral scholars. In some cases students work with faculty outside their school or college; in most cases, research is grouped according to the student's major.

ROTUNDA

School of Fine Arts

1. Inherit the Culture: Traditional Puppetry in China
Xingxin Liu, Puppetry
Advisor: Bart P. Roccoberton, Jr., Professor, Puppet Arts

2. The Carols of the Ritson Manuscript at Exeter Cathedral: Repertory and Context
Anastasia Pilato, Music
Advisor: Eric Rice, Associate Professor, Music

3. From Blank Page to Final Bow: A Comprehensive Approach to the Creation of 21st Century American Opera
Spencer Reese, Music
Advisor: Constance Rock, Associate Professor, Music

4. Presentation of William Schmidt's "Variants with Solo Cadenzas" by the University of Connecticut Trumpet Quartet
Russel Allyn, Music
Meagan Ferreira, Music
David Dorfman, Music
Lesley Knaack, Music
Advisor: Louis Hanzlik, Assistant Professor, Music

5. "BURIED" An Exploration of Human Boundaries
Shane Harris, Acting
Advisor: Laura Crow, Professor, Dramatic Arts
6. **Tips on Co-Designing Shakespeare with Contemporary Touches**
   Angela Armijo, Design and Technical Theater
   Advisor: Laura Crow, Professor, Dramatic Arts

7. **Female Tailoring of the 1940s Realized for CRT's His Girl Friday**
   Christina Ostner, Design and Technical Theater
   Advisor: Laura Crow, Professor, Dramatic Arts

8. **Locating Commonalities in the Perceptions of Colored Hearing Synesthetes**
   Kaitrin Acuna, Art
   Advisor: Emily Myers, Assistant Professor, Speech, Language, and Hearing Sciences

9. **The City Street as Canvas: Copenhagen Street Art**
   Karolina Hac, Art History
   Advisor: Jean Givens, Professor, Art and Art History

**School of Engineering**

10. **Detection of SINE element using Small RNA Fish**
    Nicholas Jannetty, Biomedical Engineering
    Advisor: Rachel O’Neill, Professor, Molecular and Cell Biology

11. **An Automated System for Monitoring Learning of Sound Choice Behavior**
    Cheng Yang, Biomedical Engineering
    Advisor: Heather Read, Associate Professor, Psychology

12. **Mechanical Analysis of Various Pericardial Tissues for use in Trans-Catheter Aortic Valve Replacement**
    Bilal Kaleem, Biomedical Engineering
    Joseph Mummert, Graduate Student, Biomedical Engineering
    Advisor: Wei Sun, Associate Professor, Biomedical Engineering

13. **Swelling, Sterilization, and Cutting of Collagen Hydroxyapatite Scaffolds for Bone Tissue Engineering**
    Alison Welch, Biomedical Engineering
    Alyssa Weinstein, Biomedical Engineering
    Max Villa, Graduate Student, Materials Science and Engineering
    Advisor: Mei Wei, Professor, Materials Science and Engineering
14. Solar Battery Charger
Muhammad Khatri, Electrical Engineering
Kevin McDowall, Electrical Engineering
Joshua Ivaldi, Electrical Engineering
Advisor: Sung Yeul Park, Assistant Professor, Electrical Engineering

15. Localization of Megalin Along Zebrafish Lateral Line; Implications for Ototoxicity of Nephrotoxic Drugs
Christine Nykyforchyn, Chemical Engineering
Advisor: Daniel Burkey, Associate Dept. Head, Associate Professor-in-Residence, Chemical and Biomolecular Engineering

16. Hollow Fiber module for Continuous Ethanol Fermentation
Leia Dwyer, Chemical Engineering
Advisor: William Mustain, Assistant Professor, Chemical and Biomolecular Engineering

17. Effects of Salt on the Fluorescence Quenching of Pyrene
Joshua Lemkin, Chemical Engineering
Hyunsook Jang, Graduate Student, Chemical Engineering
Advisor: Mu-Ping Nieh, Associate Professor, Chemical and Biomolecular Engineering

18. Electropolymerizable Membranes to Enhance Selectivity of Implantable Glucose Sensors
Kimberly Dout, Chemical Engineering
Advisor: Fotis Papadimitrakopoulos, Professor, Chemistry

19. Direct Observation of Biofouling in a Forward Osmosis Flow Cell
Jacob Deneff, Chemical Engineering
Advisor: Leslie Shor, Assistant Professor, Chemical and Biomolecular Engineering

20. Superporous Hydrogels for Controlled Release of Nanoparticles.
Kelsey Boch, Chemical Engineering
Mark Battig, Graduate Student, Chemical Engineering
Advisor: Yong Wang, Associate Professor, Chemical and Biomolecular Engineering

21. Polymorphic Interface of Natural Crystal Titanium Dioxide
Jason Chan, Materials Science and Engineering
Advisor: Barry Carter, Professor, Materials Science and Engineering
22. Synthesis and Characterization of Electrospun Titanium Dioxide Nanofibers
Nathan Martin, Materials Science and Engineering
Maria Arellano-Jimenez, Post-Doc, Materials Science and Engineering
Aravind Suresh, Post-Doc, Chemical Engineering
Advisor: Barry Carter, Professor, Materials Science and Engineering

School of Nursing

23. Nicaragua: Efficacy of a Nurse-Led Diabetes Intervention Program
Paul Banach, Nursing
Advisor: Kelley Newlin Lew, Assistant Professor, Nursing

24. Factors Related to the Personal Development of a Young Adult with HIV/AIDS: A Case Study
Jenna Burns, Nursing
Juan Salazar, Director of Pediatric Infectious Diseases, Connecticut Children’s Medical Center
Advisor: Elizabeth Anderson, Associate Professor, Nursing

25. Resilience in Older Adults with HIV/AIDS
Margaret Holmes, Nursing
Advisor: Elizabeth Anderson, Associate Professor, Nursing

Kara Dazkevich, Nursing
Kim Vo, Nursing
Heather Buck, Nursing
Kristin Summers, Graduate, School of Nursing, May 2012
Michelle Santos, Graduate, School of Nursing, May 2012
Advisor: Patricia Neafsey, Professor, Nursing

27. Self-Medication Practices of Undergraduate College Students: Non-Medical Prescriptive Stimulant Use
Kim Vo, Nursing
Heather Buck, Nursing
Kara Dazkevich, Nursing
Kristin Summers, Graduate, School of Nursing, May 2012
Michelle Santos, Graduate, School of Nursing, May 2012
Advisor: Patricia Neafsey, Professor, Nursing
28. Self-Medication Practices of Adults with Sickle Cell Disease
Courtney Beyers, Nursing
Victoria Odesina, Nurse Practitioner, University of Connecticut Health Center
Advisor: Patricia Neafsey, Professor, Nursing

HALLWAY

School of Nursing

29. Media Representations of Labor and Delivery: A Preliminary Investigation
Brenna Czudak, Nursing
Advisor: Thomas Long, Associate Professor, Nursing

30. Partnerships to Inform Practice: Advancing Correctional Nurse Competencies for Quality Care
Bing Zheng, Nursing
Advisor: Denise Panosky, Assistant Clinical Professor, Nursing

31. Pain Management for Opioid Tolerant Patients
Casey Martin, Nursing
Advisor: Deborah McDonald, Associate Professor, Nursing

32. Do Published Studies of Educational Outreach Provide Documentation of Potentially Important Characteristics?
Nicole Miller, Nursing
Advisor: Thomas Van Hoof, Associate Professor, Nursing

33. Limited English Proficient Patients use of Family Members and Interpreters: A Pilot Study
Brittany Histing, Nursing
Advisor: Desiree Diaz, Assistant Clinical Professor, Nursing

34. Neonatal Nurses’ Perceptions of Pain Management: Results from the U.S. and China
Laura Keating, Nursing
Kimberly Chang, Nursing
Advisor: Xiaomei Cong, Assistant Professor, Nursing
Technology Incubator Program

35. Chondrogenic Disease Modeling: A Study of Signaling Across IPS and HESC derived Chondrocytes
Mike Tassavor, Molecular and Cell Biology, May 2012 Graduate
Advisor: Caroline Dealy, Associate Professor, Center for Regenerative Medicine and Skeletal Development, Department of Reconstructive Sciences, Department of Orthopaedic Surgery, University of Connecticut Health Center
Additional Advisor: Sara Patterson, PhD, Center for Regenerative Medicine and Skeletal Development, Department of Reconstructive Sciences, University of Connecticut Health Center

36. Evaluation of AKT1 Synbody: A Novel Peptidic Binding Ligand
Marta Chlus, Chemical Engineering
Advisor: Caroline Dealy, Associate Professor, Center for Regenerative Medicine and Skeletal Development, Department of Reconstructive Sciences, Department of Orthopaedic Surgery, University of Connecticut Health Center

School of Agriculture and Natural Resource

37. Prevalence, Effects and Management of Bovine Leukosis Virus in Dairy Cattle
Tia Ciliano, Agriculture and Natural Resources
Advisor: Heather White, Assistant Professor, Animal Science

38. Pre-partum Insulin Resistance in Dairy Cattle Alters Offspring Birth Weight and Response to Glucose
Lisa Dauten, Animal Science
Advisor: Heather White, Assistant Professor, Animal Science

39. Hepatic Patatin-like Phospholipase Domain-containing 3 mRNA Expression is Decreased during Feed Restriction and in Transition Dairy Cows
Molly Viner, Animal Science
Advisor: Heather White, Assistant Professor, Animal Science

40. Cherry Picking Recombinant Vaccinia Virus
Peter Larson, Pathobiology
Advisor: Paulo Verardi, Assistant Professor, Pathobiology
41. Minimum Requirements for Vaccinia Virus Early Gene Expression in Mammalian Cells
Ethan Sarnoski, Pathobiology
Advisor: Paulo Verardi, Assistant Professor, Pathobiology

42. Designing a Microfluidic Protozoa Separator for Genetic Analysis of Microbial Eukaryotes in Termite Guts
Erika Orner, Pathobiology
Advisor: Leslie Shor, Assistant Professor, Chemical and Biomolecular Engineering

43. Investigations in Early Detection and Diagnosis of Mastitis Utilizing Ultrasound Technology
Elizabeth Alexander, Pathobiology
John Riesen, Professor Emeritus, Animal Science
Advisor: Sheila Andrew, Associate Professor, Animal Science

44. The Effect of Poor Maternal Nutrition on Satellite Cell Number and Activity
Rachel Forbes, Animal Science
Advisor: Sarah Reed, Assistant Professor, Animal Science

45. Characterization of Equine Muscle Satellite Cells
Tymoteusz Siwy, Animal Science
Advisor: Sarah Reed, Assistant Professor, Animal Science

46. Effects of Poor Maternal Nutrition during Gestation on Gene Expression in Renal Adipose Tissue of Lambs
Alison Bush, Animal Science
Maria Hoffman, Graduate Student, Animal Science
Kristen Peck, Graduate Student, Animal Science
Advisor: Kristen Govoni, Assistant Professor, Animal Science

47. Effects of Poor Maternal Nutrition on Gene Expression in Bone Marrow Stromal Cells from Lambs
Dana Kaelin, Animal Science
Advisor: Kristen Govoni, Assistant Professor, Animal Science

48. Characterization of Primary Bovine Mammary Epithelial Cells for In Vitro Experiments
Cameron Smart, Animal Science
Advisor: Kristen Govoni, Assistant Professor, Animal Science
49. Effects of Maternal 25-hydroxycholecalciferol (25OHD3) Supplementation on Fetal Bone Development in Pigs
Katelyn McFadden, Animal Science
Maria Hoffman, Graduate Student, Animal Science
J.D. Starkey, J.D. Coffey, E.A. Hines, C.W. Starkey - Texas Tech University
Advisor: Kristen Govoni, Assistant Professor, Animal Science

50. Effects of Poor Maternal Nutrition on GH, IGF-I, Insulin, and Leptin Concentrations in Pregnant Ewes
Michelle Forella, Animal Science
Amanda Fox, Animal Science
Kristen Peck, Graduate Student, Animal Science
Maria Hoffman, Graduate Student, Animal Science
Steven Zinn, Professor/Department Head, Animal Science
Kristen Govoni, Assistant Professor, Animal Science
Advisor: Steven Zinn, Professor/Department Head, Animal Science

51. The Effects of Maternal Nutrition During Gestation on Postnatal Growth of Offspring
Amanda Fox, Animal Science
Michelle Forella, Animal Science
Kristen Peck, Graduate Student, Animal Science
Melissa Rokosa, Graduate Student, Animal Science
Kristen Govoni, Assistant Professor, Animal Science
Advisor: Steven Zinn, Professor/Department Head, Animal Science

52. Ranavirus Prevalence in Eastern Connecticut Wood Frogs
Kelly O’Connor, Natural Resources
Advisor: Tracy Rittenhouse, Assistant Professor, Natural Resources and the Environment

53. Development and Validation of Reproductive Behavioral Endpoints for Mummichog, an Important Estuarine Model
Tanya Lama, Natural Resources
Chelsea Blatchley, Graduate Student, Natural Resources
Advisor: Thijs Bosker, Assistant Professor, Natural Resources and the Environment/Center for Environmental Sciences and Engineering
54. Food Resource Competition Between Eastern and New England Cottontails
Samantha Kremidas, Natural Resources
Advisor: Morty Ortega, Associate Professor, Natural Resources and the Environment

55. Governing Climate Change: Local Impacts on a Global Problem
Andy Bilich, Natural Resources
Advisor: Mark Boyer, Professor/Department Head, Political Science

56. Associations between Diet Quality and Adiposity Among Preschoolers from Low Socioeconomic Status
Brittany Christopher, Allied Health Sciences
Mastaneh Sharafi, Graduate Student, Allied Health Sciences
Advisor: Valerie Duffy, Professor, Allied Health Sciences

57. Using Technology to Measure Activity Levels among Older Population
Celina Rogers, Allied Health Sciences
Elizabeth Tagg, Graduate Student, Human Development and Family Studies
Advisor: Idethia Harvey, Assistant Professor, Human Development and Family Studies

School of Pharmacy

58. Synthesis and SAR for Side Chain Oxysterol Agonists of the Hedgehog Signaling Pathway
Audrey Corman, Pharmacy
Albert DeBerardinis, Post-Doc, Pharmacy
Advisor: Kyle Hadden, Assistant Professor, Pharmaceutical Sciences

59. Multiphasic CFD model to Characterize Inhaler-Spacer Interactions
Michael Saito, Pharmacy
Cindi Sounthonevat, Pharmacy
Saurabh Sarkar, Graduate Student, Pharmacy
Advisor: Bodhisattwa Chaudhuri, Assistant Professor, Pharmaceutical Sciences

60. The Protein TNIP1 Controls Production of Skin Cell "First Responders": Implications for Cutaneous Disease and Wound Healing
Michael Stamatis, Pharmacy
Anastasia Shmukler, Pharmacy
Vincent Ramirez, Graduate Student, Pharmacy
Advisor: Brian Aneskievich, Associate Professor, Pharmaceutical Sciences
College of Liberal Arts and Sciences

61. Detail and Gestalt Focus in Spontaneous Descriptions by Individuals with Optimal Outcomes From ASD
Allison Fitch, Psychology
Advisor: Inge-Marie Eigsti, Associate Professor, Psychology

62. Infant Sensitivity to Audiovisual Asynchrony in Speech
Arielle Rubin, Psychology
Katie Shaw, Graduate Student, Psychology
Advisor: Heather Bortfeld, Associate Professor, Psychology

63. Parental Stress in Relation to the Nature and Severity of Autism Symptoms
Emily Fox, Psychology
Advisor: Marianne Barton, Associate Clinical Professor, Psychology

64. How Parent Child Relationship Satisfaction and Time Spent with Child Post-Divorce are Associated with Parents' Mental Health
Jennifer Barney, Psychology and Human Development and Family Studies
Advisor: Edna Brown, Assistant Professor, Human Development and Family Studies

65. Goals, Processes, And Outcomes Of An Adventure-Based Camp Program For Young Adults Living With a Chronic Or Life Threatening Illness
Katherine O'Brien, Human Development and Family Studies
Advisor: Preston Britner, Professor, Human Development and Family Studies

66. The Implications of Parenting Behaviors for Latino Youth's Well-Being
Andrea Lopez Salazar, Human Development and Family Studies
Advisor: Annamaria Csizmadia, Assistant Professor, Human Development and Family Studies

67. Individual and Family Factors Associated with Mental Health in Colorectal Cancer Survivors
Shelby Borowski, Human Development and Family Studies
Katrina Nygren, Human Development and Family Studies
Elizabeth Tagg, Graduate Student, Human Development and Family Studies
Andrew Salner, Department of Radiation Oncology, Hartford Hospital
Advisor: Keith Bellizzi, Associate Professor, Human Development and Family Studies
68. Disability Literacy and Attitudes Towards Autism Spectrum Disorders
Cathryn Ryan, Human Development and Family Studies
Advisor: Anne Farrell, Associate Professor, Human Development and Family Studies

69. Exploring Physical Activity Identity Among College Undergraduate Women
Lindsey Leaverton, Human Development and Family Studies
Elizabeth Tagg, Graduate Student, Human Development and Family Studies
Advisor: Idethia Harvey, Assistant Professor, Human Development and Family Studies

70. Reasons for Divorce and the Effects on Spousal Adjustment
Shamara James, English
Hagar Odoom, Human Development and Family Studies
Advisor: Edna Brown, Assistant Professor, Human Development and Family Studies

71. Gender-Based Disparities in the Cognitive Outcome of Premature Infants: A Meta-Analysis
Mona Lisa Sadek, Psychology
Advisor: R. Holly Fitch, Associate Professor, Psychology

72. A Pilot Study of HI Brain Injuries of Prematurity
Haley Garbus, Psychology
Advisor: R. Holly Fitch, Associate Professor, Psychology

73. Prevalence and Severity of ADHD Symptoms in Children with ASD
Kristen Weglarz, Psychology
Advisor: Deborah Fein, Distinguished Professor, Psychology

74. DSM-5 Changes in the Diagnostic Criteria of Repetitive and Restrictive Behaviors within Autism Spectrum Disorder: Implications for Diagnosis in Young Children
Danielle Murphy, Psychology
Advisor: Deborah Fein, Distinguished Professor, Psychology

75. The Assessment of Off-Task Behaviors in Children with Autism Spectrum Disorders
Aubrey Wank, Psychology
Advisor: Deborah Fein, Distinguished Professor, Psychology
76. Longitudinal Associations among Father Anxiety, Father Involvement, and Father-Child Relationships
Fariya Naz, Psychology
Victoria Aguilera, Speech, Language, and Hearing Sciences
Yeonsoo Yoo, Graduate Student, Human Development and Family Studies
Advisor: Kari Adamsons, Assistant Professor, Human Development and Family Studies

77. Bureaucracy over Democracy?: Error, Oversight and Confusion in the Counting of Connecticut's Votes
Christopher Kempf, Political Science
Advisor: Ronald Schurin, Associate Professor, Political Science

78. Exceptionalist-in-Chief: Presidents, American Exceptionalism, and U.S. Foreign Policy Since 1897
John Dearborn, Political Science
Advisor: Ronald Schurin, Associate Professor, Political Science

79. Gender Wage Gap Policies in the United States: Equal Access or Equal Treatment Rights?
Claire Simonich, Political Science
Advisor: Virginia Hettinger, Associate Professor, Political Science

80. The Effects of Ideological Supplements on Individual Voting Behavior
John Khalil, Political Science
Advisor: Virginia Hettinger, Associate Professor, Political Science

81. The Exclusivity of Activism Before the United States Supreme Court: Amicus Curiae Briefs as a Tool of Organized Interest Elites
Erica Mason, Political Science
Advisor: Virginia Hettinger, Associate Professor, Political Science

82. Banking on a Rescue: IMF Loan Size and its Relationship with US and Money-center Bank Interests
Garrett Rapsilber, Political Science
Advisor: Jennifer Sterling-Folker, Professor, Political Science

83. Die Zeitsbewältigung: Perceptions of Time in 20th Century German Constitutions
Deanne Wallace, Political Science
Advisor: Cyrus Zirakzadeh, Professor, Political Science
84. Battling Hunger: Legislative Efforts Towards Food Security in India  
Syeda Haider, Political Science  
Advisor: Shareen Hertel, Associate Professor, Political Science

85. Ruth Sarles and the Battle Against American Intervention in World War II  
Sergio Goncalves, Political Science  
Advisor: John Garry Clifford, Professor, Political Science

86. Criminalizing Mental Illness: Juvenile Offenders in the U.S. Criminal Justice System  
Sarah Purtill, Political Science  
Advisor: Eva Troyb, Graduate Student, Psychology

87. Community-Centered Design: Using Applied Research to Develop a New Identity for the Windham Harm Reduction Coalition  
Celia Poirier, Communication  
Advisor: Rory McGloin, Assistant Professor, Communication

88. Turn-Taking in Typically Developing Children and Children with Autism  
Stephanie Sala, Communication  
Manuela Wagner, Associate Professor, Literature, Culture and Languages (German)  
Advisor: Letitia Naigles, Professor, Psychology

Neag School of Education

89. The Effects of Resistance Training vs. Endurance Training on Plasma Catecholamine Responses to a Maximal Treadmill Test  
Alexander Bryce, Exercise Science  
Advisor: William Kraemer, Professor, Kinesiology

90. The Effects of Altering Macronutrient Composition on C-Reactive Protein Levels in Overweight and Obese Subjects with Metabolic Syndrome  
Alexis Rudd, Exercise Science  
Advisor: Jeff Volek, Associate Professor, Kinesiology

91. The Relationship between Heart Rate and Rating of Perceived Exertion in the Lab Versus Field Setting  
Alex Papanastassiou, Exercise Science  
Advisor: Lawrence Armstrong, Professor, Kinesiology
92. Teacher Questioning in Reading: Alignment to the Common Core State Standards
Rebecca Duchesneau, Secondary Education
Advisor: Catherine Little, Associate Professor, Educational Psychology

93. Teachers' Follow-up Questions: How they Relate to a Student's Response
Sarah Forte, Secondary Education
Advisor: Catherine Little, Associate Professor, Educational Psychology

94. Practicing Teachers’ Self-Efficacy Beliefs Regarding their Use of Culturally Responsive Teaching Practices
Margaret Seclen, Elementary Education
Advisor: Catherine Little, Associate Professor, Educational Psychology

95. Code Switching Among Emergent Bilingual Elementary School Students: A Review of the Literature
Chelsie Giegerich, Elementary Education
Advisor: Mary Truxaw, Associate Professor, Curriculum and Instruction

College of Liberal Arts and Sciences

96. Hillslope Sediment Analysis Using Fallout Radionuclides, Colorado Front Range
Hannah Mondrach, Geoscience
Advisor: William Ouimet, Assistant Professor, Geography

97. Delay of Principle B in Spontaneous Speech
Kelcie Reid, Linguistics
Advisor: William Snyder, Professor, Linguistics

98. The Influence of the “Celtic”: Quest for Paradise in Chwedl Iarlles y Ffynnon, Le Chevalier au Lion, and Frances Hodgson Burnett’s The Secret Garden
Grace Vasington, English
Advisor: Thomas Recchio, Professor, English

99. Dreaming of First Bites and Dark Nights: The Transformed Vampire and Female Empowerment
Kelly Blanchard, English
Advisor: Pamela Bedore, Assistant Professor, English
100. An Auction Theoretic Approach to Mergers under Incumbency
Yuriy Loukachev, Economics
Advisor: Mikhael Shor, Assistant Professor, Economics

HALLWAY

College of Liberal Arts and Sciences

101. The A Word: Deconstructing the Language Behind Affirmative Action
Charity Whitehead, African American Studies and Psychology
Advisor: Michelle Williams, Associate Professor, Psychology

102. Remembering the Holocaust & Combating Indifference: the United States Holocaust Memorial Museum and the Jewish Museum Berlin
David Schwegman, History
Advisor: Cathy Schlund-Vials, Associate Professor, English

103. Demonic Possession and Mass Conversion Disorder: A Historical Comparison
Laura Hatchman, History
Advisor: Cornelia Dayton, Associate Professor, History

104. The Impacts of the Zebra Mussel (Dreissena polymorpha) on the Feeding Ecology of Early Life Stage Striped Bass (Morone saxatilis) and River Herring (Alosa pseudoharengus and Alosa aestivalis)
Grace Casselberry, Ecology and Evolutionary Biology
Advisor: Eric Schultz, Associate Professor, Ecology and Evolutionary Biology

105. Potential of Integrated Multi-Trophic Aquaculture for the Ornamental Pet Trade
Steven Ehrlich, Ecology and Evolutionary Biology
Advisor: Eric Schultz, Associate Professor, Ecology and Evolutionary Biology

106. The Effect of Land-locking on Intestinal Aquaporin 1 Expression in Alosa pseudoharengus (alewife)
Emily Funk, Ecology and Evolutionary Biology
Advisor: Eric Schultz, Associate Professor, Ecology and Evolutionary Biology

Aine O’Sullivan, Ecology and Evolutionary Biology
Advisor: Eldridge Adams, Professor, Ecology and Evolutionary Biology
108. Reproductive Phenologies of Phyllostomid Bats from Costa Rica
Ryan Hall, Ecology and Evolutionary Biology
Kathryne Durant, Ecology and Evolutionary Biology
Rachael Hyland, Ecology and Evolutionary Biology
Laura Cisneros, Graduate Student, Ecology and Evolutionary Biology
Advisor: Michael Willig, Professor, Ecology and Evolutionary Biology

SOUTH READING ROOM

College of Liberal Arts and Sciences

109. Embryonic Development of the Northern Two-lined Salamander: Revisited 101 Years Later
Taylor Ferguson, Ecology and Evolutionary Biology
Advisor: Elizabeth Jockusch, Associate Professor, Ecology and Evolutionary Biology

110. An Analysis of the Notch Regulatory Gene fringe in Metamorphic Appendage Patterning of the Red Flour Beetle Tribolium castaneum
Devin O’Brien, Biological Sciences
Frank Smith, Graduate Student, Ecology and Evolutionary Biology
Advisor: Elizabeth Jockusch, Associate Professor, Ecology and Evolutionary Biology

111. Comparison of Nuclear and Mitochondrial Gene Phylogenies for the New Zealand Cicada Genus Kikihia
Sarah Banker, Biological Sciences
Advisor: Chris Simon, Professor, Ecology and Evolutionary Biology

112. Prostate Cancer and Chronic Disease Disparities among Latino Men
Veronica Bacon, Biological Sciences
Melanie Castellanos, Psychology
Ana Cerdá, Biological Sciences
Livja Koka, Biological Sciences
Besnik Qeriqi, Biological Sciences
Advisor: Thomas Blank, Professor, Human Development and Family Studies

113. Cancer Attitudes and Beliefs in a College Setting
Livja Koka, Biological Sciences
Melanie Castellanos, Psychology
Advisor: Thomas Blank, Professor, Human Development and Family Studies
114. Polycyclic Aromatic Hydrocarbon Extraction from Avian Eggs by Ostro Protein Separation and Analysis by UPLC
Gina Guerrera, Chemistry
Anthony Provatas, Research Associate, Center for Environmental Sciences and Engineering
Advisor: James Stuart, Professor Emeritus, Chemistry

115. Synthesis Of and Oxidations With "Bobbitt's Salt": 4-Acetamido-2,2,6,6-Tetramethylpiperidine-1-Oxoammonium Tetrafluoroborate
Casey Camire, Chemistry
Advisor: Nicholas Leadbeater, Associate Professor, Chemistry
Advisor: James Bobbitt, Professor Emeritus, Chemistry

116. Preparation of an Electrophilic Difluoromethylating Reagent
Timothy Monos, Chemistry
Advisor: Nicholas Leadbeater, Associate Professor, Chemistry

117. Development of Method for Determination of Sodium Content in the Threespine Stickleback
Marisia Fikiet, Chemistry
Alexandra Longacre, Chemistry
Eric Kim, Pathobiology
Advisor: Robert Michel, Professor, Chemistry

118. Chemical Functionalization of Reduced Graphene Oxide for Self-Assembly
Adam Woomer, Chemistry
Advisor: Douglas Adamson, Associate Professor, Chemistry

119. Synthesis of Rhenium(I) Complex for CO₂ Activation
Ebun Ojekunle, Chemistry
John Ng’ang’a, Graduate Student, Chemistry
Christian Samanamu, Post-Doc, Chemistry
Advisor: Alfredo Angeles-Boza, Assistant Professor, Chemistry

120. Oxoammonium Salt Oxidation of Alcohols to Aldehydes and Carboxylic Acids
Nyle Blanck, Chemistry
Advisor: William Bailey, Professor, Chemistry
121. Contextual Influences on Phonetic Categorization in Developmental Populations
Vanessa Springer, Psychology
Alexis Giroux, Speech, Language, and Hearing Sciences
Heather McSherry, Speech, Language, and Hearing Sciences
Jean Campbell, Graduate Student, Speech, Language, and Hearing Sciences
Advisor: Rachel Theodore, Assistant Professor, Speech, Language, and Hearing Sciences

122. Adaptation to Talker-specific Phonetic Variation in Adults with Dyslexia: Preliminary Findings
Katlyn Salvador, Speech, Language, and Hearing Sciences
Rebecca Sylvia, Speech, Language, and Hearing Sciences
MaryKate Bisaillon, Speech, Language, and Hearing Sciences
Advisor: Rachel Theodore, Assistant Professor, Speech, Language, and Hearing Sciences

123. Locus of Phonological Deficits in Adults with Dyslexia: Preliminary Evidence
MaryKate Bisaillon, Speech, Language, and Hearing Sciences
Rebecca Sylvia, Speech, Language, and Hearing Sciences
Katlyn Salvador, Speech, Language, and Hearing Sciences
Advisor: Rachel Theodore, Assistant Professor, Speech, Language, and Hearing Sciences

124. Talker-specific Perceptual Processing
Devin Roscillo, Speech, Language, and Hearing Sciences
Sarah Montanaro, Speech, Language, and Hearing Sciences
Janice Lomibao, Graduate Student, Speech, Language, and Hearing Sciences
Advisor: Rachel Theodore, Assistant Professor, Speech, Language, and Hearing Sciences

125. Effects of Auditory and Visual Variability on Word Learning in Children
Kelly Casey, Speech, Language, and Hearing Sciences
Alex Bohner, Speech, Language, and Hearing Sciences
Shayna Marmon, Speech, Language, and Hearing Sciences
Advisor: Rachel Theodore, Assistant Professor, Speech, Language, and Hearing Sciences
126. Evaluating Narrative Discourse in Patients with Traumatic Brain Injury
Alexandra Addabbo, Biological Sciences and Speech, Language and Hearing Sciences
Advisor: Carl Coelho, Professor, Speech, Language, and Hearing Sciences

127. How Caffeine and Physostigmine Affect Memory in Rats
Alana Marczak, Biological Sciences
Robert Renner, Biological Sciences
Shang Lin (Tommy) Lee, Biological Sciences and Psychology
Mohamed Eldirany, Glastonbury High School
Nickie Paul, Graduate Student, Psychology
Advisor: Etan Markus, Professor, Psychology

128. Dissociating Place Cell Activity Across the Dorsal and Ventral Regions of the Hippocampus
Shang Lin (Tommy) Lee, Biological Sciences and Psychology
Andrew Bade, Biological Sciences
Samantha Collins, Psychology
Advisor: Etan Markus, Professor, Psychology

129. Changes in Hippocampal EEG during Place and Response Task Learning in Rats
Rachel Jackson, Cognitive Science
Gregory Newman, Psychology
Stephanie Vu, Physiology and Neurobiology
Xiao Li, Physiology and Neurobiology
Advisor: Etan Markus, Professor, Psychology

130. Determining Which Regions of the Hippocampus Respond to Emotional Context
Youstina Youssef, Cognitive Science
Neiha Kidwai, Biological Sciences
Xiao Li, Physiology and Neurobiology
Amanda Swanson, Graduate Student
Advisor: Etan Markus, Professor, Psychology
131. Hippocampal Arc Knockdown Effects on Exploration and Memory
Patrick Rabus, Molecular and Cell Biology
Krista Wolffer, Animal Science
Jennifer Varughese, Biological Sciences
Nickie Paul, Graduate Student, Psychology
Advisor: Etan Markus, Professor, Psychology
Additional Advisor: Sara Pallay, Graduate, Bachelor of Science, 2012

132. Transgenic Overexpression of Neurexin and Collybistin in the Rat Brain
Christopher Fekete, Physiology and Neurobiology
Danielle Freeman, Chemistry
Advisor: Angel de Blas, Professor, Physiology and Neurobiology

133. The Effects of Aging and Injury on the Subventricular Zone Stem Cell Niche
John Peters, Biological Sciences
Advisor: Joanne Conover, Associate Professor, Physiology and Neurobiology

134. MRI Analysis of Ventricularmegaly in Aging Humans
Ye Sun, Biological Sciences
Advisor: Joanne Conover, Associate Professor, Physiology and Neurobiology

135. Developmental Invasion of Astrocytes into the Mouse Rostral Migratory Stream
Nicholas Gallo, Physiology and Neurobiology
Matthew Eastman, Graduate Student, Physiology and Neurobiology
Advisor: Joanne Conover, Associate Professor, Physiology and Neurobiology

136. The Influence of Repeated Mild Traumatic Brain Injury on the Sub Ventricular Zone
Lillian Talbot, Physiology and Neurobiology
Rebecca Acabchuk, Graduate Student, Physiology and Neurobiology
Meredith Halling, Graduate Student, Physiology and Neurobiology
Advisor: Joanne Conover, Associate Professor, Physiology and Neurobiology

137. Analyzing Gliosis in the Human Brain using Mouse Models
Andrew Trinh, Physiology and Neurobiology
Advisor: Joanne Conover, Associate Professor, Physiology and Neurobiology
138. The Role of CUGBP 4 (CELF4) in Developing Retinal Neurons
Sean Congdon, Physiology and Neurobiology
Rouf Banday, Post-Doc, Physiology and Neurobiology
Advisor: Rahul Kanadia, Assistant Professor, Physiology and Neurobiology

139. Biomimetic Calcium Doped Manganese Oxide for Water Oxidation
Kimiya Zafar, Physiology and Neurobiology
David Kriz, Graduate Student, Chemistry
Advisor: Steven Suib, Distinguished Professor, Chemistry

140. Synthesis, Characterization and Application of Nickel-Doped OMS-2 Manganese Oxide Nanofibers in Lithium-Ion Batteries
Amit Mehta, Physiology and Neurobiology
Curt Guild, Graduate Student, Chemistry
Advisor: Steven Suib, Distinguished Professor, Chemistry

141. Alpha Zrp-Glucose Oxidase Intercalation and Release Maximization via Divalent Metal Ions (Mg2+, Ca2+, and Ba2+) and Cationized Bovine Serum Albumin (BSA) for an Noninvasive Oral Alternative to Insulin Drug Therapies
Momina Afrede, Biological Sciences
Advisor: Challa Kumar, Professor, Chemistry and Biochemistry

142. Restoring Effort-Related Functions in Models of Depression Symptoms:
Reversing Fatigue Symptoms Induced by Catecholamine Depleting Agent Tetrabenazine with the Adenosine A2A Antagonist MSX-3
Charlotte Freeland, Physiology and Neurobiology
Advisor: John Salamone, Distinguished Professor, Psychology

143. Pharmacological Manipulations of Nucleus Accumbens Dopamine Using Tetrabenazine and MSX-3: Implications in Effort-Related Choice Behavior
Saagar Pandit, Biological Sciences
Advisor: John Salamone, Distinguished Professor, Psychology

144. Effort-Related Impairments Produced by Lipopolysaccharide
Brian Epling, Individualized Major: Behavioral Neuroscience
Advisor: John Salamone, Distinguished Professor, Psychology
Robert Powers, Cognitive Science
Advisor: Whitney Tabor, Associate Professor, Psychology

146. Indirect Activation of Abstract and Concrete Terms in the Visual World Paradigm
Chris Brozdowski, Cognitive Science
Advisor: James Magnuson, Associate Professor, Psychology

147. The Role of Drosophila PGC-1 Homologue Spargel in Dopaminergic Neuroprotection against Rotenone
Munzareen Khan, Cognitive Science
Advisor: Yih-Woei Fridell, Assistant Professor, Allied Health Sciences

148. An Investigation into CILT Efficacy in Aphasia Therapy
Kaila Manca, Cognitive Science
Advisor: Emily Myers, Assistant Professor, Speech, Language, and Hearing Sciences

149. Logarithmic Autoregressive Conditional Duration (ACD) Models
James Anderson, Mathematics/Statistics
Lilian Cheung, Statistics
Advisor: Nalini Ravishanker, Professor, Statistics

150. Determining the Spectrum of the Laplacian on 3N-Gaskets.
Jason Marsh, Mathematics
Max Margenot, Mathematics
Nikhaar Gupta, Mathematics
William Oakley, Undergraduate Student, North Carolina State University
Advisor: Alexander Teplyaev, Assistant Professor, Mathematics

151. The Top Lyapunov Exponent of Multiplicative Stochastic Processes
David Wierschen, Mathematics
Becky Simonsen, Mathematics
Alex Baldecko, Graduate Student, Mathematics
Advisor: Maria Gordina, Associate Professor, Mathematics
152. Music Analysis with Fractal Strings: A Complex-Dimensional View
Tyler Reese, Mathematics
Advisor: Luke Rogers, Assistant Professor, Mathematics
Additional Advisor: Alexander Teplyaev, Professor, Mathematics
Additional Advisor: Ronald Squibbs, Associate Professor, Music

153. Mutagenicity of 8-oxoguanine Lesion Adjacent to an Abasic site in
Escherichia coli Cells Proficient or Deficient in Y-family DNA Polymerase(s)
Savas Tsikis, Molecular and Cell Biology
Kimberly Rebello, Chemistry
Advisor: Ashis Basu, Professor, Chemistry

154. Effects of Estrogen on Male Gonadal Development
Robert Stickels, Molecular and Cell Biology
Advisor: Andrew Pask, Associate Professor, Molecular and Cell Biology

155. Serum Type II Collagen Telopeptide (CTX II) Levels in a Rabbit Septic
Arthritis model
Julianna Lau, Biological Sciences
Advisor: Mark Lee, Assistant Professor of Orthopaedic Surgery, Department of
Pediatrics, University of Connecticut School of Medicine
Advisor: Arlene Albert, Professor, Molecular and Cell Biology

156. Dynamic Light Scattering Studies on the Stability of Membrane
Mimetic Lipodisq® Nano-particles
Diane Yu, Structural Biology and Biophysics
Advisor: Arlene Albert, Professor, Molecular and Cell Biology

157. Thermal Stability and Gold Binding Properties of Delipidated Gold
Binding Mutants
Edward Courchaine, Structural Biology and Biophysics
Advisor: Robert Birge, Professor, Chemistry

158. Quantifying the Local pH Change Induced by Protein Based Artificial
Retina
Nandan Pandit, Molecular and Cell Biology
Advisor: Robert Birge, Professor, Chemistry
159. The Role of Horizontal Gene Transfer in the Evolution of a Thermophilic Bacterium
Anna Green, Molecular and Cell Biology
Kristen Swithers, Post-Doc, Molecular and Cell Biology
Advisor: Johann Peter Gogarten, Distinguished Professor, Molecular and Cell Biology

160. Examining Haloarchaeal Phylogroups through the Creation of a Tree from Environmental and Reported Bacteriorhodopsin Sequences.
Jeffrey O'Brien, Molecular and Cell Biology
Amanda Dick, Graduate Student, Molecular and Cell Biology
Nikhil Ram Mohan, Graduate Student, Molecular and Cell Biology
Matthew Fullmer, Graduate Student, Molecular and Cell Biology
R. Thanke Papke, Assistant Professor, Molecular and Cell Biology
Advisor: Johann Peter Gogarten, Distinguished Professor, Molecular and Cell Biology

161. Adaptive Immune Response to Neo-Antigens Generated In Vivo by Spontaneous Mutations
Rory Geyer, Molecular and Cell Biology
Siu-Pok Yee, Assistant Professor, Genetics and Developmental Biology, and Director, Gene Targeting and Transgenic Facility, University of Connecticut Health Center
Advisor: Pramod Srivastava, Professor, Department of Immunology, School of Medicine, Director, Center for Immunotherapy of Cancer and Infectious Disease, and Director, Carole and Ray Neag Comprehensive Cancer Center, University of Connecticut Health Center

162. Uptake and Vesicle Trafficking of Opsonized and Non-opsonized Silica Particles during Silica-induced Cell Death
Alexandra Goetjen, Molecular and Cell Biology
Gaurav Joshi, Graduate Student, Molecular and Cell Biology
Advisor: David Knecht, Professor, Molecular and Cell Biology

163. Measuring the Actin Binding Kinetics of Filamin using mEos, a Novel Photoconvertible Probe
Wells LaRiviere, Molecular and Cell Biology
Reed LaRiviere, Molecular and Cell Biology
Advisor: David Knecht, Professor, Molecular and Cell Biology
164. Probing the Interaction Between Translational GTPase BipA and the 70S Ribosome Using FDS-AUC
David Levitz, Molecular and Cell Biology
Advisor: Victoria Robinson, Associate Professor, Molecular and Cell Biology

165. Functional Characterization of the ATP/ADP Carrier by Luminescence
Catherine O’Brien, Molecular and Cell Biology
Ashley Long, Graduate Student, Molecular and Cell Biology
Advisor: Nathan Alder, Associate Professor, Molecular and Cell Biology

166. Enterohemorrhagic Escherichia coli 0157 Manipulates Multiple Host Factors During Infection
Sarah Grout, Molecular and Cell Biology
Advisor: Kenneth Campellone, Assistant Professor, Molecular and Cell Biology

167. Development of a Fluorescence Assay to Probe PKR Dimerization
Michael Bruno, Physiology and Neurobiology
Bushra Husain, Graduate Student, Molecular and Cell Biology
Advisor: James Cole, Professor, Molecular and Cell Biology

168. Optimization of a Gene Circuit to Repress Gene Expression in Vaccinia Virus
Shari Perez, Molecular and Cell Biology
Advisor: Paulo Verardi, Assistant Professor, Pathobiology

169. Aronia Berry Juice Sensory Analysis by Harvest Time and Oral Sensory Phenotype
Jeeha Park, Molecular and Cell Biology
Advisor: Valerie Duffy, Professor, Allied Health Sciences

HALLWAY

College of Liberal Arts and Sciences

170. Instrumentation for Slowing and Cooling of CaF Molecules with Optical Bichromatic Forces
Tony Le, Physics
Advisor: Edward Eyler, Professor, Physics
171. Karyotypic Variation Throughout the Metastatic Process
Parker Sulkowski, Molecular and Cell Biology
Advisor: Rachel O’Neill, Professor, Molecular and Cell Biology

172. Pre-Implantation Genetic Diagnosis: An Intersection of Science, Ethics, and Policy
Himanayani Mamillapalli, Molecular and Cell Biology
Advisor: David Goldhamer, Professor, Molecular and Cell Biology
Advisor: Richard Hiskes, Professor, Political Science

173. Optimization of a Melanoma Screening Program Based on a Computer Simulation Model for Metastasis
Priya Ranade, Biological Sciences
Advisor: Michael Lynes, Professor, Molecular and Cell Biology
Advisor: James Michaelson, Scientific Director, Division of Surgical Oncology, Massachusetts General Hospital

174. Irish Rebel Songs: Spreading the Word
Christopher Wasko, Music Education
Advisor: Jamie Spillane, Associate Professor, Music

175. Canvassing Generations: Art Through Postmemory
Julianne Norton, Individualized Major: Transglobal Perspectives
Advisor: Ray DiCapua, Associate Professor, Art
Along with students who are presenting at Frontiers, the students listed below will be presenting at a “Mini-Frontiers” event on April 21, 2013.

An Investigation of an Efficient System to Harvest Clean Energy from Structural Vibrations
Bryan Blanc, Civil Engineering
Advisor: Ramesh Malla, Associate Professor, Civil and Environmental Engineering

Sapling Functional Traits of Successional Specialists and Generalists in Tropical Wet Forest
Frank Cervo, Environmental Science
Advisor: Robin Chazdon, Professor, Ecology and Evolutionary Biology

Comparison of the Habitat Characteristics of a Successful and Failed Eelgrass Zostera Marina Restoration Test Planting
Jennifer Dootz, Coastal Studies
Advisor: Jamie Vaudrey, Assistant Research Professor, Marine Sciences

Effective Therapy Options Used to Treat Deaf Patients with Mental Disorders
Meredith Freeman, Individualized Major: ASL, Deaf Culture, and Creative Arts Therapy
Advisor: Sherry Powell, Lecturer, Linguistics

Processing of the Epstein-Barr Virus Noncoding RNAs, EBER1 and EBER2, and their Potential Oncogenic Role in the Host Cell
Kristen Hughes, Molecular and Cell Biology
Advisor: Rachel O’Neill, Professor, Molecular and Cell Biology

The Times of London’s Support for Appeasement, September 1938-September 1939
Mairead Hynes, History
Advisor: Joel Blatt, Associate Professor, History
War-Weary Germans, American Occupiers, and the Nazi Werwolf Movement in Postwar Germany, 1945-1947
Nick Hurley, History
Advisor: Charles Lansing, Associate Professor, History

Marau Taaroa: The Last Queen of Tahiti
Isabelle Nat, Art History
Advisor: Anne D’Alleva, Associate Professor, Art History
<table>
<thead>
<tr>
<th>Name</th>
<th>Poster Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acuna, Katrin</td>
<td>8</td>
</tr>
<tr>
<td>Addabbo, Alexandra</td>
<td>126</td>
</tr>
<tr>
<td>Afrede, Momina</td>
<td>141</td>
</tr>
<tr>
<td>Aguilera, Victoria</td>
<td>76</td>
</tr>
<tr>
<td>Alexander, Elizabeth</td>
<td>43</td>
</tr>
<tr>
<td>Allyn, Russel</td>
<td>4</td>
</tr>
<tr>
<td>Anderson, James</td>
<td>149</td>
</tr>
<tr>
<td>Armijo, Angela</td>
<td>6</td>
</tr>
<tr>
<td>Bacong, Veronica</td>
<td>112</td>
</tr>
<tr>
<td>Bade, Andrew</td>
<td>128</td>
</tr>
<tr>
<td>Banach, Paul</td>
<td>23</td>
</tr>
<tr>
<td>Banker, Sarah</td>
<td>111</td>
</tr>
<tr>
<td>Barney, Jennifer</td>
<td>64</td>
</tr>
<tr>
<td>Beyers, Courtney</td>
<td>28</td>
</tr>
<tr>
<td>Bilich, Andy</td>
<td>55</td>
</tr>
<tr>
<td>Bisaillon, MaryKate</td>
<td>123,122</td>
</tr>
<tr>
<td>Blanc, Bryan</td>
<td>page 28</td>
</tr>
<tr>
<td>Blanchard, Kelly</td>
<td>99</td>
</tr>
<tr>
<td>Blanck, Nyle</td>
<td>120</td>
</tr>
<tr>
<td>Boch, Kelsey</td>
<td>20</td>
</tr>
<tr>
<td>Bohner, Alex</td>
<td>125</td>
</tr>
<tr>
<td>Borowski, Shelby</td>
<td>67</td>
</tr>
<tr>
<td>Brozdowski, Chris</td>
<td>146</td>
</tr>
<tr>
<td>Bruno, Michael</td>
<td>167</td>
</tr>
<tr>
<td>Bryce, Alexander</td>
<td>89</td>
</tr>
<tr>
<td>Burns, Jenna</td>
<td>24</td>
</tr>
<tr>
<td>Bush, Alison</td>
<td>46</td>
</tr>
<tr>
<td>Camire, Casey</td>
<td>115</td>
</tr>
<tr>
<td>Casey, Kelly</td>
<td>125</td>
</tr>
<tr>
<td>Casselberry, Grace</td>
<td>104</td>
</tr>
<tr>
<td>Castellanos, Melanie</td>
<td>112,113</td>
</tr>
<tr>
<td>Cerda, Ana</td>
<td>112</td>
</tr>
<tr>
<td>Cervo, Frank</td>
<td>page 28</td>
</tr>
<tr>
<td>Chan, Jason</td>
<td>21</td>
</tr>
<tr>
<td>Chang, Kimberly</td>
<td>34</td>
</tr>
<tr>
<td>Cheung, Lilian</td>
<td>149</td>
</tr>
<tr>
<td>Chlus, Marta</td>
<td>36</td>
</tr>
<tr>
<td>Christopher, Brittany</td>
<td>56</td>
</tr>
<tr>
<td>Ciliano, Tia</td>
<td>37</td>
</tr>
<tr>
<td>Collins, Samantha</td>
<td>128</td>
</tr>
<tr>
<td>Congdon, Sean</td>
<td>138</td>
</tr>
<tr>
<td>Corman, Audrey</td>
<td>58</td>
</tr>
<tr>
<td>Courchaine, Edward</td>
<td>157</td>
</tr>
<tr>
<td>Czudak, Brenna</td>
<td>29</td>
</tr>
<tr>
<td>Dauten, Lisa</td>
<td>38</td>
</tr>
<tr>
<td>Dazkevich, Kara</td>
<td>26,27</td>
</tr>
<tr>
<td>Dearborn, John</td>
<td>78</td>
</tr>
<tr>
<td>Denef, Jacob</td>
<td>19</td>
</tr>
<tr>
<td>Dootz, Jennifer</td>
<td>page 28</td>
</tr>
<tr>
<td>Dorfman, David</td>
<td>4</td>
</tr>
<tr>
<td>Dout, Kimberly</td>
<td>18</td>
</tr>
<tr>
<td>Duchesneau, Rebecca</td>
<td>92</td>
</tr>
<tr>
<td>Durant, Kathyne</td>
<td>108</td>
</tr>
<tr>
<td>Dwyer, Leia</td>
<td>16</td>
</tr>
<tr>
<td>Ehrlich, Steven</td>
<td>105</td>
</tr>
<tr>
<td>Eldirany, Mohamed</td>
<td>127</td>
</tr>
<tr>
<td>Epling, Brian</td>
<td>144</td>
</tr>
<tr>
<td>Fekete, Christopher</td>
<td>132</td>
</tr>
<tr>
<td>Ferguson, Taylor</td>
<td>109</td>
</tr>
<tr>
<td>Ferreira, Meagan</td>
<td>4</td>
</tr>
<tr>
<td>Fikiet, Marisia</td>
<td>117</td>
</tr>
<tr>
<td>Fitch, Allison</td>
<td>61</td>
</tr>
<tr>
<td>Forbes, Rachel</td>
<td>44</td>
</tr>
<tr>
<td>Forella, Michelle</td>
<td>50,51</td>
</tr>
<tr>
<td>Forte, Sarah</td>
<td>93</td>
</tr>
<tr>
<td>Fox, Amanda</td>
<td>51,50</td>
</tr>
<tr>
<td>Fox, Emily</td>
<td>63</td>
</tr>
<tr>
<td>Freeland, Charlotte</td>
<td>142</td>
</tr>
<tr>
<td>Freeman, Danielle</td>
<td>132</td>
</tr>
<tr>
<td>Freeman, Meredith</td>
<td>page 28</td>
</tr>
<tr>
<td>Funk, Emily</td>
<td>106</td>
</tr>
<tr>
<td>Gallo, Nicholas</td>
<td>135</td>
</tr>
<tr>
<td>Garbus, Haley</td>
<td>72</td>
</tr>
<tr>
<td>Geyer, Rory</td>
<td>161</td>
</tr>
<tr>
<td>Giegerich, Chelsie</td>
<td>95</td>
</tr>
<tr>
<td>Giroux, Alexis</td>
<td>121</td>
</tr>
<tr>
<td>Goetjen, Alexandra</td>
<td>162</td>
</tr>
<tr>
<td>Goncalves, Sergio</td>
<td>85</td>
</tr>
<tr>
<td>Green, Anna</td>
<td>159</td>
</tr>
<tr>
<td>Grout, Sarah</td>
<td>166</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>---------------------</td>
<td>------</td>
</tr>
<tr>
<td>Guerrera, Gina</td>
<td>114</td>
</tr>
<tr>
<td>Hac, Karolina</td>
<td>9</td>
</tr>
<tr>
<td>Haider, Syeda</td>
<td>84</td>
</tr>
<tr>
<td>Hall, Ryan</td>
<td>108</td>
</tr>
<tr>
<td>Harris, Shane</td>
<td>5</td>
</tr>
<tr>
<td>Hatchman, Laura</td>
<td>103</td>
</tr>
<tr>
<td>Histing, Brittany</td>
<td>33</td>
</tr>
<tr>
<td>Holmes, Margaret</td>
<td>25</td>
</tr>
<tr>
<td>Hughes, Kristen</td>
<td>28</td>
</tr>
<tr>
<td>Hurley, Nick</td>
<td>29</td>
</tr>
<tr>
<td>Hynes, Mairea</td>
<td>28</td>
</tr>
<tr>
<td>Ivaldi, Joshua</td>
<td>14</td>
</tr>
<tr>
<td>Jackson, Rachel</td>
<td>129</td>
</tr>
<tr>
<td>James, Shamara</td>
<td>70</td>
</tr>
<tr>
<td>Jannetty, Nicholas</td>
<td>10</td>
</tr>
<tr>
<td>Kaelin, Dana</td>
<td>47</td>
</tr>
<tr>
<td>Kaleem, Bilal</td>
<td>12</td>
</tr>
<tr>
<td>Keating, Laura</td>
<td>34</td>
</tr>
<tr>
<td>Kempf, Christopher</td>
<td>77</td>
</tr>
<tr>
<td>Khalil, John</td>
<td>80</td>
</tr>
<tr>
<td>Khan, Munzareen</td>
<td>147</td>
</tr>
<tr>
<td>Khatri, Muhammad</td>
<td>14</td>
</tr>
<tr>
<td>Kidwai, Neiha</td>
<td>130</td>
</tr>
<tr>
<td>Kim, Eric</td>
<td>117</td>
</tr>
<tr>
<td>Knaack, Lesley</td>
<td>4</td>
</tr>
<tr>
<td>Koka, Livja</td>
<td>113,112</td>
</tr>
<tr>
<td>Kremidas, Samantha</td>
<td>54</td>
</tr>
<tr>
<td>Lama, Tanya</td>
<td>53</td>
</tr>
<tr>
<td>LaRiviere, Reed</td>
<td>163</td>
</tr>
<tr>
<td>LaRiviere, Wells</td>
<td>163</td>
</tr>
<tr>
<td>Larson, Peter</td>
<td>40</td>
</tr>
<tr>
<td>Lau, Julianna</td>
<td>155</td>
</tr>
<tr>
<td>Leaverton, Lindsey</td>
<td>69</td>
</tr>
<tr>
<td>Le, Tony</td>
<td>170</td>
</tr>
<tr>
<td>Lee, Shang Lin</td>
<td>128,127</td>
</tr>
<tr>
<td>Lemkin, Joshua</td>
<td>17</td>
</tr>
<tr>
<td>Levitz, David</td>
<td>164</td>
</tr>
<tr>
<td>Li, Xiao</td>
<td>129,130</td>
</tr>
<tr>
<td>Liu, Xingxin</td>
<td>1</td>
</tr>
<tr>
<td>Longacre, Alexandra</td>
<td>117</td>
</tr>
<tr>
<td>Lopez-Salazar</td>
<td>66</td>
</tr>
<tr>
<td>Loukachev, Yuriy</td>
<td>100</td>
</tr>
<tr>
<td>Mamillapalli, Himanayani</td>
<td>172</td>
</tr>
<tr>
<td>Manca, Kaila</td>
<td>148</td>
</tr>
<tr>
<td>Marczak, Alana</td>
<td>127</td>
</tr>
<tr>
<td>Marmon, Shayna</td>
<td>125</td>
</tr>
<tr>
<td>Marsh, Jason</td>
<td>150</td>
</tr>
<tr>
<td>Martin, Casey</td>
<td>31</td>
</tr>
<tr>
<td>Martin, Nathan</td>
<td>22</td>
</tr>
<tr>
<td>Mason, Erica</td>
<td>81</td>
</tr>
<tr>
<td>McDowall, Kevin</td>
<td>14</td>
</tr>
<tr>
<td>McFadden, Katelyn</td>
<td>49</td>
</tr>
<tr>
<td>McSherry, Heather</td>
<td>121</td>
</tr>
<tr>
<td>Mehta, Amit</td>
<td>140</td>
</tr>
<tr>
<td>Miller, Nicole</td>
<td>32</td>
</tr>
<tr>
<td>Mondrach, Hannah</td>
<td>96</td>
</tr>
<tr>
<td>Monos, Timothy</td>
<td>116</td>
</tr>
<tr>
<td>Montanaro, Sarah</td>
<td>124</td>
</tr>
<tr>
<td>Murphy, Danielle</td>
<td>74</td>
</tr>
<tr>
<td>Nat, Isabelle</td>
<td>29</td>
</tr>
<tr>
<td>Naz, Fariya</td>
<td>76</td>
</tr>
<tr>
<td>Newman, Gregory</td>
<td>129</td>
</tr>
<tr>
<td>Norton, Julianne</td>
<td>175</td>
</tr>
<tr>
<td>Nykyforchyn, Christine</td>
<td>15</td>
</tr>
<tr>
<td>O’Brien, Catherine</td>
<td>165</td>
</tr>
<tr>
<td>O’Brien, Katherine</td>
<td>65</td>
</tr>
<tr>
<td>O’Brien, Jeffrey</td>
<td>160</td>
</tr>
<tr>
<td>O’Brien, Devin</td>
<td>110</td>
</tr>
<tr>
<td>O’Connor, Kelly</td>
<td>52</td>
</tr>
<tr>
<td>O’Sullivan, Aine</td>
<td>107</td>
</tr>
<tr>
<td>Odoom, Hagar</td>
<td>70</td>
</tr>
<tr>
<td>Ojekunle, Ebu</td>
<td>119</td>
</tr>
<tr>
<td>Ostner, Christina</td>
<td>7</td>
</tr>
<tr>
<td>Pandit, Nandan</td>
<td>158</td>
</tr>
<tr>
<td>Pandit, Saagar</td>
<td>143</td>
</tr>
<tr>
<td>Papanastassiou, Alex</td>
<td>91</td>
</tr>
<tr>
<td>Park, Jeeha</td>
<td>169</td>
</tr>
<tr>
<td>Perez, Shari</td>
<td>168</td>
</tr>
<tr>
<td>Peters, John</td>
<td>133</td>
</tr>
<tr>
<td>Pilato, Anastasia</td>
<td>2</td>
</tr>
<tr>
<td>Poirier, Celia</td>
<td>87</td>
</tr>
<tr>
<td>Powers, Robert</td>
<td>145</td>
</tr>
<tr>
<td>Purtill, Sarah</td>
<td>86</td>
</tr>
<tr>
<td>Qeriqi, Besnik</td>
<td>112</td>
</tr>
</tbody>
</table>
Rabus, Patrick--131
Ranade, Priya--173
Rapsilber, Garrett--82
Rebello, Kimberly--153
Reese, Spencer--3
Reese, Tyler--152
Reid, Kelcie--97
Renner, Robert--127
Rogers, Celina--57
Roscillo, Devin--124
Rubin, Arielle--62
Rudd, Alexis--90
Ryan, Cathryn--68
Sadek, Mona Lisa--71
Saito, Michael--59
Sala, Stephanie--88
Salvador, Katlyn--122,123
Sarnoski, Ethan--41
Schwegman, David--102
Seclen, Margaret--94
Simonich, Claire--79
Siwy, Tymoteusz--45
Smart, Cameron--48
Soumthonevat, Cindi--59
Springer, Vanessa--121
Stamatis, Michael--60
Stickels, Robert--154
Sulkowski, Parker--171
Sun, Ye--134
Sylvia, Rebecca--122,123
Talbot, Lillian--136
Tassavor, Michael--35
Trinh, Andrew--137
Tsikis, Savas--153
Varughese, Jennifer--131
Vasington, Grace--98
Viner, Molly--39
Vo, Kim--27,26
Vu, Stephanie--129
Wallace, Deanne--83
Wank, Aubrey--75
Wasko, Christopher--174
Weglarz, Kristen--73
Welch, Alison--13
Whitehead, Charity--101
Wierschen, David--151
Wolffer, Krista--131
Woomer, Adam--118
Yang, Cheng--11
Youssef, Youstina--130
Yu, Diane--156
Zafar, Kimiya--139
Zheng, Bing--30
Special Thanks

The Office of Undergraduate Research wishes to thank the deans of the represented schools and colleges, the Provost’s office, and the generous donors to the Honors Program for their support of undergraduate research through contributions to the Summer Undergraduate Research Fund and OUR grant programs. In addition, we thank the following individuals for their support:

Susan Herbst, President, University of Connecticut

Mun Choi, Provost and Executive Vice President for Academic Affairs

Jennifer Lease Butts, Assistant Vice Provost for Enrichment Programs and Director of the Honors Program

Patricia Szarek, Associate Director for Enrollment, Honors Program

Cheryl Cranick, Communications, Honors Program

Honors Student Volunteers for the Frontiers Poster Exhibition

Office of Undergraduate Research Staff

Margaret Lamb, Director, Office of Undergraduate Research

Debbie Carroll, Advising/Program Specialist, Office of Undergraduate Research

Jodi Eskin, Program Specialist, Office of Undergraduate Research

Marlene Coughlin, Secretary, Office of Undergraduate Research and Office of National Scholarships

Honors and Enrichment Programs Student Staff

Jackie Blodgett          Ericka Mack-Andrew
Rahul Darwar            Camille Thomas
Emily Finn              Sukreti Toteja