FRONTIERS
IN UNDERGRADUATE RESEARCH

Seventeenth Annual
Poster Exhibition

A CELEBRATION OF SCHOLARSHIP, INNOVATION,
CREATIVITY, AND COLLABORATION

April 11, 2014
3:30 p.m. – 4:30 p.m.

April 12, 2014
11:30 a.m. – 2:00 p.m.

UCONN
ENRICHMENT PROGRAMS
OFFICE OF
UNDERGRADUATE RESEARCH
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 2014 is the seventeenth annual Frontiers event sponsored by the Office of Undergraduate Research (OUR). This year’s poster exhibition includes 225 students presenting posters for 209 research projects, with some students presenting on Friday or Saturday only.

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 $332,000 in 2012-2013 to students for their research and creative 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 11, 2014  
3:30 p.m. – 4:30 p.m.

Saturday, April 12, 2014  
11:30 a.m. – 2:00 p.m.

Student and Faculty Reception  
Friday, April 11, 2014  
4:30 p.m. – 5:30 p.m.

Musical Performance
Suite for Four Trumpets by Jack Normain Kimmel  
UConn Trumpet Quartet  
Russel Allyn, David Dorfman,  
Meagan Ferreira, Lesley Knaack

Introduction and Welcome
Caroline McGuire, Director, Office of Undergraduate Research

Keynote Speaker
Jeff Seemann, Vice President for Research

Closing Remarks
Jennifer Lease Butts, Assistant Vice Provost for Enrichment Programs and Director, Honors Program

Musical Performance
Solo Saxophone Improvisation  
Colin Walters
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.

Please note that an “F” after the poster number signifies a presentation on Friday only and an “S” after the poster number signifies a presentation on Saturday only.

School of Fine Arts

1. Jack Normain Kimmel's "Suite for Four Trumpets": Preparation, Interpretation, and Enhancement
Russel Allyn, Music
Meagan Ferreira, Music
David Dorfman, Music
Lesley Knaack, Music
Advisor: Louis Hanzlik, Associate Professor, Music

2. Creating a Manuscript Capturing Synesthetic Perception
Kaitrin Acuna, Art – Photography
Advisor: Emily Myers, Assistant Professor, Speech, Language, and Hearing Sciences

3F. The 2014 Mid-Atlantic Collegiate Jazz Orchestra
Colin Walters, Music Education and Jazz Studies
Advisor: Earl MacDonald, Professor, Music

3S. Performance Spaces in Copenhagen: The Playhouse and the Opera House
Kari Swenson, Music and Art History
Advisor: Jean Givens, Professor, Art History
Jonathan Schmieding, Music Composition and Performance
Advisor: Kenneth Fuchs, Professor, Music

4S. Grandfather
Jamie Girolamo, Fine Arts
Advisor: Janet Pritchard, Associate Professor, Art and Art History

5. Hatshepsut & Carter: The Process of Utilizing History to Inform Drama
Harrison Haney, Acting and Puppet Arts
Advisor: Michael Bradford, Associate Professor, Dramatic Arts

6. 2014 USITT Young Designer's Forum Exhibit
Matthew Iacozza, Theatre Design/Technology
Advisor: Laura Crow, Professor, Dramatic Arts

7. Scenic Design for "Dead Heavy Fantastic"
Brenna Sellars, Theatre Design/Technology
Advisor: Daniela Weiser, Assistant Professor in Residence, Dramatic Arts

School of Nursing

8. Provision of Emotional Support to Increase Pumping Duration in High Risk Mothers
Rebecca Paquette, Nursing
Advisor: Jacqueline McGrath, Professor and Associate Dean, Nursing

9F. Analysis of 2010 National Ambulatory Medical Care Survey for Infant Nutritional Status/Weight
Nikaela LaRossa, Nursing
Advisor: Deborah McDonald, Associate Professor, Nursing

9S. Women's Experiences of Home Birth: Unmedicated and Untethered
Hayley Dunnack, Nursing
Advisor: Cheryl Beck, Distinguished Professor, Nursing

10. An Exploratory Pilot of Factors Associated with Premenstrual Syndrome in Minority Women
Mallory Perry, Nursing
Advisor: Michelle Judge, Assistant Professor, Nursing
Advisor: Deborah McDonald, Associate Professor, Nursing
11F. Exploring the Influence of Paternal Race/Ethnicity, Education Level, and Child Gender on Paternal Feeding Style
Rebecca Albanese, Nutritional Sciences and Spanish
Advisor: Amy Mobley, Assistant Professor, Nutritional Sciences

11S. The Association of Depressive Symptoms and Pain Management Trajectory
Caroline Barri, Nursing
Advisor: Deborah McDonald, Associate Professor, Nursing

UConn IDEA Grant Recipients

12. Stress Management and Well-Being
Makayla Davis, Psychology
Advisor: Crystal Park, Professor, Psychology
Advisor: Elizabeth Cracco, Director, Counseling and Mental Health Services

13. Measuring the Sustainability and Long-Term Benefits of Micro-Finance Programs
Natalia Svirshchevsky, Finance
Advisor: Susan Spiggle, Associate Professor and Acting Department Head, Marketing

14. Systemic Inquiry Into the Potential of iPad For Teaching and Learning
Jake Sippel, Individualized Major: Academic Technologies
Advisor: Jae-Eun Joo, Associate Professor, Educational Psychology

15. Mode, Method, and Medium: The Affordances of the Online Writing Tutorial in the Writing Center Service
Erik Holtz, Individualized Major: Social Interaction and New Media
Advisor: Tom Deans, Associate Professor, English

16. Virtual Hartford: Interacting with Hartford's Past Through the Digital Humanities
Ryan Allen, History
Advisor: Micki McElya, Associate Professor, History

17. The Search for the White Rose
Peter Logue, English
Advisor: Oliver Hiob, Assistant Professor in Residence, German Studies and Comparative Literature and Cultural Studies, Tufts University
Advisor: Sebastian Wogenstein, Professor, Literatures, Cultures and Languages
18. Recording Remains: Exploring the Page Format Through Installation Art
Antonio Campelli, Art – Painting and Installation
Advisor: Ray DiCapua, Associate Professor, Art and Art History

19. Babelation Dramaturgy
Anna Woodruff, Theatre Studies
Advisor: Michael Bradford, Associate Professor, Dramatic Arts

20. Chemicals and Commodities from Waste Coffee: Analysis of Fast Pyrolysis Product with Respect to Experimental Design
Ari Fischer, Chemical Engineering
Advisor: George Bollas, Assistant Professor, Chemical and Biomolecular Engineering

21. Do Visitors Affect Zebra Behavior in Zoos?
Christine Conte, Biological Sciences
Advisor: Chris Elphick, Associate Professor, Ecology and Evolutionary Biology

22. Visualizing Distant Suffering
David Pereira, Art – Communication Design
Advisor: Cathy Schlund-Vials, Associate Professor, English, and Director, Asian American Studies Institute

College of Liberal Arts and Sciences

23. Empire of Slavery: The 1926 Slavery Convention
Robert Anderson, Individualized Major: International Development and Human Rights
Advisor: Cathy Schlund-Vials, Associate Professor, English, and Director, Asian American Studies Institute

24. The Sea Scavengers: Adapting New London’s Nineteenth Century Whale Fishery in its Final Years
Rebecca D’Angelo, Anthropology and History
Advisor: Christopher Clark, Professor and Acting Department Head, History

25. Local Schools, Rural Communities: Consolidation and Community in Central Vermont
Luke LaRosa, Urban and Community Studies
Advisor: Carol Atkinson-Palombo, Assistant Professor, Geography
26. Sedimentation Behind Conway Electric Dam, South River, Western Massachusetts
Samantha Dow, Geoscience and Geography
Advisor: William Ouimet, Assistant Professor, Geography and the Center for Integrative Geosciences

27F. Assessing “Mixed-Use” - Evaluating New Urbanism in New England
Michael Daniels, Political Science and Economics
Advisor: Dennis Heffley, Professor, Economics
Advisor: Jennifer Sterling-Folker, Alan R. Bennett Honors Professor and POLS Honors Director, Political Science

27S. Casino Culture: The Connecticut Model of Casino and Tribal Relations
John Conway, Political Science
Advisor: Ronald Schurin, Associate Professor in Residence, Political Science

Mary Mackie, Political Science and Human Rights
Advisor: Mark Boyer, Distinguished Professor, Political Science
Advisor: Barbara Gurr, Assistant Professor, Women’s, Gender and Sexuality Studies
Advisor: Nancy Shoemaker, Professor, History

29F. Climate Change Vulnerabilities: Case Studies of the Maldives and Kenya
Katherine Peinhardt, Individualized Major: International Relations and Spanish
Advisor: Mark Boyer, Distinguished Professor, Political Science
Advisor: Jennifer Sterling-Folker, Alan R. Bennett Honors Professor and POLS Honors Director, Political Science

29S. The Specter of Intolerance: Understanding Religious Violence in Pakistan
Syeda Haider, Political Science and Anthropology
Advisor: Betty Hanson, Professor Emerita, Political Science

30. Beyond Nation States: The Role and Activity of NGOs in International Environmental Governance
Marissa Piccolo, Political Science and Economics
Advisor: Prakash Kashwan, Assistant Professor, Political Science
31. Public Perception and Judicial Legitimacy
Mary (Molly) Rockett, Political Science
Advisor: Virginia Hettinger, Associate Professor, Political Science

32. When the Courts Make History: The Impact of the Inter American Court on Latin American Conflict Zones
Jack Zachary, Political Science and Human Rights
Advisor: Luis Van Isschot, Assistant Professor, History

33. Gun Control: Current Polls Don’t Tell the Full Story
Brian Tiedt, Political Science and Economics
Advisor: Paul Herrnson, Professor, Political Science and Director, Roper Center

34F. Candidate Emergence in Congressional Elections: Impact of Gender
Katie Cavanaugh, Political Science
Advisor: Paul Herrnson, Professor, Political Science and Director, Roper Center

34S. Pressure to Democratize? An Assessment of U.S. Policy Towards Post Arab-Spring Egypt
Emilie Meguid, Political Science and Linguistics/Psychology
Advisor: Jeremy Pressman, Associate Professor, Political Science

35F. Candidate Emergence in Congressional Elections: Impact of Political Experience
Emma Wager, Political Science and Economics
Advisor: Paul Herrnson, Professor, Political Science and Director, Roper Center

35S. From Inclusion to Empowerment: The Political Implications of Microfinance
Kateri Ciccaglione, Political Science and Economics
Advisor: Oksan Bayulgen, Associate Professor, Political Science

36F. The Impact of Race on Congressional Candidacies
Joshua Thomas, Political Science
Advisor: Paul Herrnson, Professor, Political Science and Director, Roper Center

36S. Divergent Paths: Family Planning in Pakistan and Bangladesh
S'ha Siddiqi, Political Science, Economics and French
Advisor: Betty Hanson, Professor Emeritia, Political Science
Advisor: Jennifer Sterling-Folker, Alan R. Bennett Honors Professor and POLS Honors Director, Political Science
37. A Look Into the Issues Surrounding Proper Maternal Health Care in Bangladesh
Asahi Hoque, Molecular and Cell Biology and Human Rights
Advisor: Manisha Desai, Associate Professor, Sociology

38F. The Business of Poverty Alleviation: The Transition from Non-Profit to For-Profit Microfinance in Guatemala
Katherine Walker, Political Science and Economics
Advisor: Oksan Bayulgen, Associate Professor, Political Science

38S. Globalization and Vulnerability: Explaining the Irish Economic Miracle and its Collapse
Kaitlin Alper, Political Science and English
Advisor: Mark Boyer, Distinguished Professor, Political Science

39. Agroecological Alternatives to Sustainability: Examples from India, South Africa, and Brazil
Elise Ursin, Individualized Major: International Relations and Human Rights
Advisor: Manisha Desai, Associate Professor, Sociology

40F. Sprechen Sie Englisch? How English-German Bilingualism is Reshaping German National Identity
Robyn Caron, Individualized Major: International Relations
Advisor: Jennifer Sterling-Folker, Alan R. Bennett Honors Professor and POLS Honors Director, Political Science

40S. The Legal Inability to Say “No”: A Cross-national Statistical Analysis of Factors Contributing to the Adoption of Marital Rape Laws
Celia Guillard, Individualized Major: International Relations and Political Science
Advisor: David Richards, Professor, Political Science

41F. Seventeen Years Later: Addressing the Gap Between De Jure and De Facto Access to the Right to Adequate Housing in the New South Africa
Sarah Wylie, Political Science and Human Rights
Advisor: Shareen Hertel, Associate Professor, Political Science

42F. Unwarranted Criticisms: Examining the Legacy of James Buchanan
Joseph Boccia, Political Science and History
Advisor: Ronald Schurin, Associate Professor in Residence, Political Science
43F. Dodge, Duck, Elude, and Eschew: Fluctuations in American Public Opinion Regarding Intervention in Darfur, Libya, and Syria
Ashley Palma, Political Science and Individualized Major: Cultural Foundations for 21st Century Diplomacy
Advisor: Jennifer Sterling-Folker, Alan R. Bennett Honors Professor and POLS Honors Director, Political Science

43S. Beverage Choice of Pregnant, Lactating, and Non-Pregnant Women
Indhira Núñez, Biological Sciences
Advisor: Lawrence Armstrong, Professor, Kinesiology

44F. The Continued Colonization of Africa: A Case Study of Nigeria
Adanna Uwazurike, Political Science and Economics
Advisor: Heather Turcotte, Assistant Professor, Political Science

44S. Comparison of the Observed Exercise and Nutrition Habits of Pregnant Women to Current Evidence-based Recommendations
Kelly Fuller, Exercise Science
Advisor: Lawrence Armstrong, Professor, Kinesiology
Advisor: Carl Maresh, Distinguished Professor, Kinesiology

45. A Review of State Custody and Shared Parenting Laws and their Influences on Fathering
Shannon Perkins, Human Development and Family Studies and English
Advisor: Kari Adamsons, Assistant Professor, Human Development and Family Studies

46. An Examination of the Dynamic Changes in US Health Prompted by Income Inequality
Shavonda Brandon, Economics
Advisor: Dennis Heffley, Professor, Economics

47F. Effectiveness of Co-Pays in the Correctional Health Setting
Andrew Glick, Individualized Major: Multidisciplinary Approaches to Healthcare
Advisor: Megan Ehret, Associate Professor, Pharmacy Practice
Advisor: Deborah Shelton, Professor, Nursing

47S. Observing the Economic Effects of Direct-to-Consumer Advertising on Drug Spending
Meiling Kry, Economics
Advisor: Dennis Heffley, Professor, Economics
48. Care Coordination and Physician Incentives in a Fee-for-Service Health Care System
John Giardina, Economics and Biological Sciences
Advisor: Dennis Heffley, Professor, Economics

49F. Adherence to HAART: An Individual Patient Data Meta-Analysis
Dylan Yaworski, Statistics
Advisor: Tania Huedo-Medina, Assistant Professor, Allied Health Sciences

49S. How to Play Unfair Games: A Martingale Approach
Zhe (Rachel) Li, Statistics
Advisor: Vladimir Pozdnyakov, Associate Professor, Statistics

Victoria Chen, Statistics and Cognitive Science
Advisor: Ofer Harel, Associate Professor, Statistics

51F. Nonverbal IQ Test Performance in Bilingual Children with Primary Language Impairment
Kiyomi Andrada, Speech, Language, and Hearing Sciences and Spanish
Advisor: Tammie Spaulding, Assistant Professor, Speech, Language, and Hearing Sciences

51S. Parents' School-Related Attitudes and Involvement at their Children's School
Cindy Newman, Human Development and Family Studies and Psychology
Advisor: Annamaria Csizmadia, Assistant Professor, Human Development and Family Studies

52. Investigating the Use of the Shape Bias for Word Learning in Children with Autism Spectrum Disorders
Emily Potrzeba, Speech, Language, and Hearing Sciences and Psychology
Advisor: Letitia Naigles, Professor, Psychology

**Neag School of Education**

53. Evaluation of Gifted Education Using A-F School Grading Accountability Systems
Daniel Arndt, Secondary Biology Education
Advisor: Jonathan Plucker, Professor, Educational Leadership
54. Skin Temperature Responses Following a Warm-Weather Road Race
Luke Belval, Athletic Training
Advisor: Douglas Casa, Professor, Kinesiology

College of Liberal Arts and Sciences

55. Contextual Influences on Speech Perception in Developmental Populations
MaryKate Bisaillon, Speech, Language, and Hearing Sciences
Devin Roscillo, Graduate, Speech, Language, and Hearing Sciences, Dec 2013
Advisor: Rachel Theodore, Assistant Professor, Speech, Language, and Hearing Sciences

56. Developing Narrative Structure In A New Sign Language In Nicaragua: An Episode Analysis
Eli Miranda, Speech, Language and Hearing Sciences
Advisor: Marie Coppola, Assistant Professor, Psychology and Linguistics

57F. Modes of Communication among Deaf and Hard-of-Hearing Individuals in an Advancing Technological Age
Rose Hart, Speech, Language, and Hearing Sciences
Advisor: Kathleen Cienkowski, Associate Professor and Acting Department Head, Speech, Language, and Hearing Sciences

57S. The Impact of Bisensory Impairment on the Hearing Aid Effect in Older Adults
Torri Ann Woodruff, Speech, Language and Hearing Sciences and Psychology
Brooke Cohen, Speech, Language and Hearing Sciences
Advisor: Kathleen Cienkowski, Associate Professor and Acting Department Head, Speech, Language and Hearing Sciences

58. Pitch Variation Cues for Word Segmentation: A Comparison of Tonal and Non-Tonal Language Speakers
Brittany Ciullo, Linguistics and Psychology
Advisor: Emily Myers, Assistant Professor, Psychology; Speech, Language, and Hearing Sciences

59. Gap Detection and Frequency Discrimination Abilities in Individuals High in Autism Spectrum Disorder Symptomatology
Emily Thompson, Speech, Language, and Hearing Sciences and Psychology
Advisor: Inge-Marie Eigsti, Professor, Psychology
60F. Socioeconomic Correlates of Stress, Coping, and Health Behaviors in College Students
Angelina Hernandez, Psychology
Advisor: Crystal Park, Professor, Psychology

60S. Testing the Limits: College Students' Attitudes Toward Asian-White, Hispanic-White, and Black-White Interracial Relationships
Andrea Lopez Salazar, Human Development and Family Studies
Advisor: Annamaria Csizmadia, Assistant Professor, Human Development and Family Studies

61. Cognitive and Behavioral Predictors of Stress, Coping, & Behavior Change in First-Year Students
Megan Iacocca, Psychology
Advisor: Crystal Park, Professor, Psychology

62. Trauma, Help-Seeking Behavior, and Posttraumatic Growth in a College Sample
Aaron Burrick, Human Development and Family Studies and Psychology
Advisor: Rachel Tambling, Assistant Professor, Human Development and Family Studies

63. Applying the Health Belief Model to Individual’s Beliefs and Preferences About Premarital Counseling
Shelby Borowski, Human Development and Family Studies and Psychology
Advisor: Rachel Tambling, Assistant Professor, Human Development and Family Studies

64. Social Correlates of Physical Activity Among College-Aged Women: A Cross Sectional Study
Deidre Mitchell, Human Development and Family Studies
Advisor: Idenethia Harvey, Assistant Professor, Human Development and Family Studies

65F. The Effects of Internalizing Symptoms on Self-Focus in Adolescent Friendships
Erica Hollar, Psychology
Advisor: Rhiannon Smith, Assistant Professor, Psychology
65S. Effects of Body Posture on Perceived Personality Traits
Babitha Thatiparthi, Psychology
Sabryne Videal, Psychology
Advisor: Steven Mellor, Associate Professor, Psychology

66F. Co-Worry in Friendship Dyads
Michelle Goldstein, Psychology
Advisor: Kimberli Treadwell, Associate Professor, Psychology

67. Postmemory and Parábasis: Working For and Against the Concept of Nation in Latino and Albanian Literature (Junot Díaz and Fatos Kongoli)
Krisela Karaja, English and Spanish Literature
Advisor: Guillermo Irizarry, Associate Professor, Literatures, Cultures, and Languages
Advisor: Cathy Schlund-Vials, Associate Professor, English and Director, Asian American Studies Institute

68F. Literature of Generation X: Socioeconomic Constructions and Performances of Masculinity
John Wilkinson, English and Economics
Advisor: Cathy Schlund-Vials, Associate Professor, English, and Director, Asian American Studies Institute
Advisor: Christopher Vials, Assistant Professor, English
Advisor: Alanson Minkler, Associate Professor, Economics

68S. OUR Short Story
Julie Bartoli, English and Journalism
Advisor: Susanne Davis, Professor, English

69. The Construction and Deconstruction of Masculinity in the Life and Works of Ernest Hemingway
Mariel Smith, English
Advisor: Veronica Makowsky, Professor, English
Advisor: Margaret Higonnet, Professor, English
Advisor: Margaret Breen, Professor, English

70. The Public Versus Private Dichotomy of Gender Roles in Buenos Aires
Arielle Yoon, Anthropology
Advisor: Françoise Dussart, Professor, Anthropology
71. Hartford's Caribbean Immigrants
Chelsea Pajardo, Psychology and History
Advisor: Fiona Vernal-Wright, Associate Professor, History

72. Highly Active and Selective Catalytic Systems for Biomass and Photocatalytic Conversion
Anton Gudz, Chemistry and Spanish
Advisor: Steven Suib, Distinguished Professor, Chemistry, and Director, Materials Science Institute

73F. Comparison of Rates of Azo Dye Degradation Using Novel Methods
Shilpa Kolli, Environmental Science
Advisor: Steven Suib, Distinguished Professor, Chemistry and Director, Materials Science Institute

73S. Synthesis of Cerium Oxide Derivatives for the Water Gas Shift Reaction
Kimiya Zafar, Physiology and Neurobiology
Advisor: Steven Suib, Distinguished Professor, Chemistry, and Director, Materials Science Institute
Advisor: David Kriz, Graduate Student, Chemistry

74. C-F Bond Functionalization: An Unusual Reaction of alpha-silyl-substituted organometallics and alpha-fluoroketones
Robin Cywar, Chemistry
Advisor: Nicholas Leadbeater, Associate Professor, Chemistry

75. Oxidative Functionalization of Activated C-H Bonds
Rebecca Wiles, Chemistry
Advisor: Nicholas Leadbeater, Associate Professor, Chemistry

76. Translesional Synthesis DNA Polymerases
Maciej Kosakowski, Biological Sciences and Chemistry
Advisor: Ashis Basu, Professor, Chemistry

77. Mutagenesis of 8-Oxoguanine Adjacent to an Abasic Site in Escherichia coli Cells Proficient or Deficient in DNA Polymerase IV
Savas Tsikis, Molecular and Cell Biology
Advisor: Ashis Basu, Professor, Chemistry
78F. 3D Representation of Oral Mucositis
Angelica Messana, Biological Sciences
Advisor: Perry Harovas, Associate Professor, Digital Media and Design
Advisor: Daniel Pejril, Assistant Professor, Digital Media and Design
Advisor: Douglas Peterson, Professor, School of Dental Medicine, UCHC

78S. Synthesis of Sulfatides for Type II Natural Killer T-Cells Activation
Faith Crittenden, Chemistry
Advisor: Amy Howell, Professor and Department Head, Chemistry

79. The Magnetocaloric Effect and Magnetic Refrigeration
Lukasz Kuna, Applied Physics
Advisor: Menka Jain, Associate Professor, Physics

80. Comparative Study of Classical and Quantum Scattering
Joshua Squires, Physics and Applied Mathematics
Advisor: Vasili Kharchenko, Professor, Physics

81. Optimization of Bacteriorhodopsin Mutants by Charged Lipid Reconstitution
Edward Courchaine, Structural Biology/Biophysics
Advisor: Robert Birge, Professor, Chemistry

82. Conformational Analysis of 2,2-Diaryl-1,3-dioxanes
Sherif Eldirany, Chemistry
Advisor: William Bailey, Professor, Chemistry

83S. An Investigation of Biodiesel Stability: A Study of the Behavior of Antioxidants in Soybean and Canola Derived Biodiesel
Casey Camire, Chemistry
Advisor: James Stuart, Professor Emeritus, Chemistry

College of Agriculture and Natural Resources

83F. Prepartum Insulin Resistance in Dairy Cows Alters Offspring Birth Weight and Insulin Responsiveness
Bethany Sullivan, Animal Science and Pathobiology
Advisor: Sarah Reed, Assistant Professor, Animal Science
84. Effects of Maternal 25-hydroxycholecalciferol (25OHD3) Supplementation on Fetal Bone Development in Pigs
Katelyn McFadden, Animal Science
J.D. Coffey, E.A. Hines, C.W. Starkey – Texas Tech University
Advisor: Kristen Govoni, Assistant Professor, Animal Science

85. Willingness to Pay for Farm, Forest, and Open Space Conservation Tax Incentives in CT Towns
Emily Bergan, Resource Economics
Advisor: Stephen Swallow, Professor, Agricultural and Resource Economics

86. The Accumulation of Phosphorus in Soil under Managed Turfgrass
Andrew Brown, Environmental Science and Soil Science
Advisor: Thomas Morris, Professor, Plant Science and Landscape Architecture
Advisor: Karl Guillard, Professor, Plant Science and Landscape Architecture

87F. Validation of Ultrasound as a Viable Technology for the Detection of Mastitis in Dairy Cattle
Elizabeth Alexander, Pathobiology
Advisor: Sheila Andrew, Professor, Animal Science
Advisor: John Riesen, Professor Emeritus, Animal Science

87S. The Application of ELISA in Vaccine Research
Alyssa McDonagh, Pathobiology
Advisor: Antonio Garmendia, Professor, Pathobiology and Veterinary Science

88. The Search for Chlamydia in Crohn's Disease
Karen Chen, Pathobiology
Advisor: Herbert Van Kruiningen, Professor Emeritus, Pathobiology
Advisor: Antonio Garmendia, Professor, Pathobiology

89. Studies of Clostridium Perfringens
Elizabeth Houston, Pathobiology
Advisor: Joan Smyth, Professor, Pathobiology

90. Capturing Recombinant Vaccinia Viruses with Magnetic-Beaded Antibodies
Peter Larson, Pathobiology
Advisor: Paulo Verardi, Assistant Professor, Pathobiology and Veterinary Science
School of Engineering

91. Remote Monitoring of a Vertical Farming System
David Knowles, Mechanical Engineering
Advisor: Richard Fu, UConn-TIP, Engineering

92. Production of Advanced TBC Using Amastan's UniMelt™ Process
Nicholas Fleming, Chemical Engineering
Advisors: Kamal Hadidi and Mak Redjdal, Amastan (UConn-TIP)

93. Chondrogenic Differentiation of Normal and Mutant iPSC's
Renee Wasko, Molecular and Cell Biology
Advisor: Caroline Dealy, Associate Professor, Department of Reconstructive Sciences, UCHC, and Director, UConn-TIP Bioscience & STEM Summer Research Intern Program

94. Transcatheter Aortic Heart Valves
Jaclyn Mazzarella, Biological Sciences
Advisor: Wei Sun, Associate Professor, Mechanical Engineering, Biomedical Engineering

95. Pre-Operative Planning for Transcatheter Aortic Valve Replacement
Rebecca Newman, Biomedical Engineering
Advisor: Wei Sun, Associate Professor, Mechanical Engineering, Biomedical Engineering

96. Redesigning and Incorporating the EpiPen into a Smartphone Case
Kayvon Ghoreshi, Molecular and Cell Biology
Advisor: Donald Peterson, Associate Professor, Medicine, UCHC

97. Optimization of the Esterification of Levulinic Acid for Industrial Biorefinery Application
Meghan Negus, Chemical Engineering
Advisor: Nicholas Leadbeater, Associate Professor, Chemistry
Advisor: Richard Parnas, Professor, Chemical and Biomolecular Engineering
Advisor: Yi Li, Professor, Plant Sciences

98. Functionalization of Activated Carbon
Elaine Karl, Chemistry and Biological Sciences
Advisor: Timothy Vadas, Assistant Professor, Civil and Environmental Engineering
99. Biodegradation of Pharmaceuticals & Biosorption of Metals in Streams  
Greg Rosshirt, Environmental Engineering  
Advisor: Timothy Vadas, Assistant Professor, Civil and Environmental Engineering

100F. Iron Oxide-Organic Matter Coprecipitates and Controls on Cu Availability  
Faye Koenigsmark, Environmental Engineering  
Advisor: Timothy Vadas, Assistant Professor, Civil and Environmental Engineering

100S. Monte Carlo Simulation with R: An Application on Effect Size Estimations  
Thomas Lee, Computer Science & Engineering  
Advisor, Tania Huedo-Medina, Assistant Professor, Statistics

101. The D-Term of Exploding Q-Balls  
Michael Cantara, Engineering Physics  
Advisor: Peter Schweitzer, Associate Professor, Physics

102. Atomic Escape Fluxes Induced by Precipitation of ENAs Into Exoplanetary Atmospheres  
Daniel Violette, Engineering Physics and Mathematics  
Advisor: Vasili Kharchenko, Professor, Department of Physics

103. Hybrid Go-Kart: High-Current Power Electronics Design  
Joshua Calkins, Electrical Engineering  
Advisor: Sung-Yeul Park, Assistant Professor, Electrical and Computer Engineering

104. Cycloconverter  
Nathan Butterfield, Electrical Engineering  
Advisor: Sung-Yeul Park, Professor, Electrical Engineering

105. Dual-Output AC and DC Power Converter for Solar Photovoltaic Energy Conversion  
Julio Yela, Electrical Engineering  
Advisor: Ali Bazzi, Assistant Professor, Electrical and Computer Engineering
106. GreenScreen: Software to Improve Campus Water and Energy Use
Andrew Silva, Chemical Engineering
Advisor: Jeffrey McCutcheon, Assistant Professor, Chemical and Biomolecular Engineering
Advisor: Douglas Cooper, Professor and Department Head, Chemical and Biomolecular Engineering
Advisor: Jeffrey Meunier, Lecturer, Computer Science and Engineering

Virginia Cousens, Chemical Engineering
Advisor: Leslie Shor, Assistant Professor, Chemical and Biomolecular Engineering

108. Resistance-drift Characterization of Lateral Nanoscale Ge2Sb2Te5 Cells
Zoila Jurado, Mechanical Engineering
Lindsay Sullivan, Electrical Engineering
Advisor: Ali Gokirmak, Associate Professor, Electrical Engineering
Advisor: Helena Silva, Associate Professor, Electrical Engineering

College of Liberal Arts and Sciences

109F. Investigation of the Lipid Dependence Of Respiratory Complex IV Activation Using Nanoscale Bilayers
Matthew Greenwood, Physiology and Neurobiology and Molecular and Cell Biology
Advisor: Nathan Alder, Assistant Professor, Molecular and Cell Biology

109S. Relationships Between Two Northeastern Bats, Myotis lucifugus and Eptesicus fuscus, and Landscape Structure
Ekaterina Morozova, Ecology and Evolutionary Biology
Advisor: Michael Willig, Director and Professor, Center for Environmental Sciences and Engineering

110F. Species Identification of Oomycete Infections in New England Salamander Eggs
Alexis Cordone, Religion and Biological Sciences
Advisor: Mark Urban, Assistant Professor, Ecology and Evolutionary Biology
Advisor: Louise Lewis, Associate Professor, Ecology and Evolutionary Biology
110S. Centipedes of Connecticut: New Faunal Records
Joseph DeSisto, Ecology and Evolutionary Biology
Advisor: Jane O'Donnell, Invertebrate Collections Manager, Ecology and Evolutionary Biology

111. Purification and Optimization of a Nanoparticle Malaria Vaccine
Alex Ward, Biological Sciences
Advisor: Peter Burkhard, Professor, Molecular and Cell Biology

112. Vibrio Immunoglobulin-like Protein and Its Role Host Symbiosis
Joseph Raymond, Molecular and Cell Biology
Advisor: Spencer Nyholm, Associate Professor, Molecular and Cell Biology

113. Characterization of a Putative Cephalotoxin in Euprymna scolopes Hemocytes
Jessie Scott, Biological Sciences
Advisor: Spencer Nyholm, Associate Professor, Molecular and Cell Biology

114. Icosahedral Virus Capsid Assembly: Investigations of Size Determination in the P22 Coat Protein
Aashay Vyas, Molecular and Cell Biology
Advisor: Carolyn Teschke, Professor, Molecular and Cell Biology

115. Epigenetic Regulation of Grin2b Expression
Richika Makol, Physiology and Neurobiology and Psychology
Advisor: Joseph LoTurco, Professor, Physiology and Neurobiology

Joel Rosiene, Physiology and Neurobiology
Advisor: Joseph LoTurco, Professor, Physiology and Neurobiology

117. The Role of Dyslexia-Associated Gene Dcdoch2 in Pre-NMDAR regulation in Thalamocortical Pathways
Takumi Otsuka, Biomedical Engineering
Advisor: Joseph LoTurco, Professor, Physiology and Neurobiology

College of Agriculture and Natural Resources

118. The Effects of Nectar Robbing in Colombia
Briana Lechkun, Natural Resources
Advisor: Margaret Rubega, Professor, Ecology & Evolutionary Biology
119. The Impact of the African Lion on the Black-backed Jackal
Jenna Blessington, Natural Resources and the Environment
Advisor: Morty Ortega, Associate Professor, Natural Resources and the Environment

120. Survival and Movements of Post-Fledging American Kestrels Hatched from Nest Boxes
Annie Stupik, Natural Resources and the Environment
Advisor: Chadwick Rittenhouse, Assistant Research Professor, Natural Resources and the Environment

121F. Enhancing Sweetness and Palatability of Aronia Juice via Added Sugars and Olfactory Flavoring
Jeeha Park, Molecular and Cell Biology
Advisor: Valerie Duffy, Professor, Allied Health Sciences

122. Molecular Interactions and Change in Antioxidant Activity in Aronia Juice
Sarah Kranz, Dietetics
Advisor: Bradley Bolling, Assistant Professor, Nutritional Sciences

College of Liberal Arts and Sciences
123. The Role of Endogenous Retroviruses in the Evolution of Fish Placentas
Eli Pasackow, Molecular and Cell Biology
Advisor: Michael O'Neill, Associate Professor, Molecular and Cell Biology

124. In Vitro RNAi Knockdown of the Meiosis Specific Protein, Xlr3 (X-Linked Lymphocyte-Regulated 3)
Katelyn DeNegre, Physiology and Neurobiology
Advisor: Michael O'Neill, Associate Professor, Molecular and Cell Biology

125. Histone-3 Methylation Patterns in the Xlr3b Locus in Mus Musculus
Anita Reddy, Molecular and Cell Biology
Advisor: Michael O'Neill, Associate Professor, Molecular and Cell Biology

126. Immunocytochemical Analysis of the Genetic Deletion of the Alpha-4 Subunit of GABA(A) Receptors
Sean Dinallo, Physiology and Neurobiology
Advisor: Angel de Blas, Professor, Physiology and Neurobiology
127. The Effects of Overexpression of Neuroligin and Collybistin in Rat Cortical Neurons by In Utero Electroporation
Christopher Fekete, Physiology and Neurobiology
Advisor: Angel de Blas, Professor, Physiology and Neurobiology

128. A Persistent Role for EphA4 in Adult Neurogenesis
Nicholas Gallo, Physiology and Neurobiology
Advisor: Joanne Conover, Associate Professor, Physiology and Neurobiology

129. Age Related Ventriculomegaly and Associated Lateral Wall Gliosis
Ye Sun, Molecular Cell Biology and Physiology and Neurobiology
Andrew Trinh, Physiology and Neurobiology and History
Advisor: Joanne Conover, Associate Professor, Physiology and Neurobiology
Advisor: Qian Wu, Associate Professor, Pathology, UCHC

130. A Mouse Model of Repeated Mild Traumatic Brain Injury
Lilllian Talbot, Physiology and Neurobiology and Molecular and Cell Biology
Ye Sun, Molecular and Cell Biology and Physiology and Neurobiology
Andrew Trinh, Physiology and Neurobiology and History
Richard Wolferz, Jr., Biological Sciences
Advisor: Joanne Conover, Associate Professor, Physiology and Neurobiology

131. Using Grating Coupled Surface Plasmon Resonance Imaging and Surface Plasmon Coupled Emission to Create a Functional Phenotype of Mouse and Human T Lymphocytes
Roberta Delvy, Molecular and Cell Biology and Anthropology
Advisor: Michael Lynes, Professor and Department Head, Molecular and Cell Biology

132. Improvement of SPR Technology’s Ability to Detect Toxins and Toxicants
William Ollayos, Biological Sciences and English
Advisor: Micheal Lynes, Professor and Department Head, Molecular and Cell Biology

133. Immune Modulation by a Novel Danger Signal in T Helper Lymphocyte Activation
Katherine Han, Molecular and Cell Biology and English
Advisor: Michael Lynes, Professor and Department Head, Molecular and Cell Biology
134. The Role of PIP2 in Regulating the Gating and Pharmacological Properties of KCNQ Channels
Kevin Duignan, Physiology and Neurobiology
Advisor: Anastasios Tzingounis, Assistant Professor, Physiology and Neurobiology

135. The Effects of Kinase Inhibitors on the Phosphatidylinositol 4-Phosphate 5-Kinase (PIP5K) Signaling Pathway
Amit Mehta, Physiology and Neurobiology
Advisor: Anastasios Tzingounis, Assistant Professor, Physiology and Neurobiology

136. Using Cross-Linking Immunoprecipitation (CLiP) to Determine a Mechanism for Acute Megakaryoblastic Leukemia
Sonny Caplash, Biological Sciences
Advisor: Stephanie Halene, Assistant Professor of Medicine, Yale University
Advisor: Mark Peczuh, Associate Professor, Chemistry

137. Nanoindentation Simulations of Norwalk Virus Capsids
Kevin Boyd, Molecular and Cell Biology and Chemistry
Advisor: Eric May, Assistant Professor, Molecular and Cell Biology

138. Increasing Colon Cancer Prevention by Vitamin D: Regulation of VDR Expression with Panobinostat and Bexarotene in a Mouse Colon Cancer Model
Awaad Khan, Biological Sciences and Allied Health Sciences
Advisor: Charles Giardina, Associate Professor, Molecular and Cell Biology

139. Characterizing the Interactions between WHAMM and Phospholipids
Ashley Russo, Molecular and Cell Biology
Advisor: Kenneth Campellone, Assistant Professor, Molecular and Cell Biology

140F. Assessing a Novel Method for Bone Marrow Aspiration in Pediatric Oncology
Alexandra Buda, Molecular and Cell Biology
Advisor: Michael Isakoff, M.D., Pediatric Oncology, CCMC
Advisor: Sharon Smith, M.D., Emergency Department, CCMC

141F. Optimizing the Bacteriorhodopsin Based Retinal Implant for Physiological Use
Nandan Pandit, Molecular and Cell Biology
Advisor: Robert Birge, Distinguished Professor, Chemistry
141S. Estrogen and the Male Gonad
Robert Stickels, Molecular and Cell Biology
Advisor: Rachel O'Neill, Professor, Molecular and Cell Biology
Advisor: Andrew Pask, Associate Professor, Zoology, University of Melbourne, Australia

142. The Centromere Drive Model of Evolution in Macropodine Marsupials
Kathryn Ritz, Molecular and Cell Biology
Advisor: Rachel O'Neill, Professor, Molecular and Cell Biology

143. Stepping into the Black Hole of Cancer Genetics: The Role of Repetitive Elements and Genomic Instability in Speciation and Disease
Brendan Smalec, Molecular and Cell Biology and Art History
Advisor: Rachel O'Neill, Professor, Molecular and Cell Biology

144. Cell Identity Transitions: Looking at Single Cells
Steven Burger, Molecular and Cell Biology
Advisor: Craig Nelson, Associate Professor, Molecular and Cell Biology

145. Reversing Effort-Related Impairments with the MAO-B Inhibitor Deprenyl
Margaret Rowland, Psychology and Physiology and Neurobiology
Advisor: John Salamone, Distinguished Professor, Psychology

146. Tremulous Jaw Movements Induced by the Anticholinesterase Galantamine: Studies with a Mouse Model of Parkinsonian Tremor
Tiahna Spencer, Physiology and Neurobiology
Advisor: John Salamone, Distinguished Professor, Psychology

147. Neurochemical Studies of Dopamine Tissue Levels and Metabolism after Administration of the VMAT-2 Inhibitor Tetrabenazine
Laura Purcell, Individualized Major: Neuroscience
Advisor: John Salamone, Distinguished Professor, Psychology

148F. Parkinsonism Induced by the VMAT-2 Inhibitor Tetrabenazine is Exacerbated by Coadministration of the SSRI Fluoxetine in Rodents
Meredith Milligan, Biological Sciences
Advisor: John Salamone, Distinguished Professor, Psychology
148S. Analysis of Individual Differences of the Sprague-Dawley Control Rats on a Progressive Ratio Choice Related Operant Task
Alicia Fischer, Psychology
Advisor: John Salamone, Distinguished Professor, Psychology

149. Hemispheric Communication in Schizophrenia: An EEG Case Study
Jihee Kim, Allied Health Sciences
Advisor: Chi-Ming Chen, Assistant Professor, Department of Psychology

150F. Knockdown of Candidate Dyslexia Susceptibility Gene Homolog Dyx1c1 in Male and Female Rodents: Effects on Thalamic Anatomy
Beata Kaminska, Individualized Major: Developmental Neuropsychology and Spanish
Advisor: R. Holly Fitch, Professor, Psychology

151F. Neural Substrates of Attention Deficit in a Rat Model of Premature Hypoxic-ischemic Injury
Madeline Briere, Psychology (Non-degree)
Haley Garbus, Psychology
Advisor: R. Holly Fitch, Professor, Psychology

152. Behavioral Outcomes in Models for Premature Hypoxic-Ischemic Injury Following Cooling
Haley Garbus, Psychology
Advisor: R. Holly Fitch, Professor, Psychology
Advisor: Ted Rosenkrantz, Professor, Pediatrics, UCHC
Advisor: James Chrobak, Associate Professor, Psychology

153F. Improving the Bioavailability of Curcumin: A New Formulation
Anisha Mistry, Physiology and Neurobiology
Advisor: John Salamone, Distinguished Professor, Psychology

153S. Effects of Chronic Ketamine on Cognitive Performance
Melanie Castellanos, Psychology
Advisor: James Chrobak, Professor and Associate Department Head, Psychology

154. Quantitative Comparison of Hippocampal Parvalbumin Interneurons Across Development
Casey McMahon, Pathobiology
Advisor: James Chrobak, Professor and Associate Department Head, Psychology
155. The Neuronal Expression of Parvalbumin-Expressing GABAergic Interneurons in the Barrel Field in Young and Adult Rats
Chelsea Young, Individualized Major: Molecular Genetics
Advisor: James Chrobak, Professor and Associate Department Head, Psychology

156F. Observing Brain Involvement in an Emotional Experience Using Immediate Early Genes
Kaylene King, Physiology and Neurobiology
Youstina Youssef, Cognitive Science
Tabitha D'Souza, Graduate, Physiology and Neurobiology, May 2012
Advisor: Etan Markus, Professor and Associate Department Head, Psychology
Advisor: Diano Marron, Associate Professor, Psychology, Wilfrid Laurier University

156S. Discovering the Sequence Specificity of the BGLF-4 Protein Kinase in Epstein-Barr Virus and Predicting Host Substrates
Julie Klaric, Biological Sciences
Advisor: Daniel Schwartz, Assistant Professor, Physiology and Neurobiology

157F. Comparison of Dorsal and Ventral Hippocampal Theta Power during Learning
Rachel Jackson, Cognitive Science and Economics
Greg Newman, Psychology
Stephanie Vu, Physiology and Neurobiology
Xiao Li, Physiology and Neurobiology
Advisor: Etan Markus, Professor and Associate Department Head, Psychology

157S. Investigating Novel Propargyl-Linked Antifolates in Inhibiting Bacteria
Joshua Andrade, Molecular and Cell Biology
Advisor: Amy Anderson, Professor and Acting Department Head, Pharmaceutical Sciences

158F. Circadian Rhythm Patterns and Cognitive Function in Aged Rats
Victoria Wickenheisser, Physiology and Neurobiology
Advisor: Etan Markus, Professor and Associate Department Head, Psychology
158S. Adaptive Immune Response to Neo-Antigens Generated In Vivo by Spontaneous Mutations
Rory Geyer, Molecular and Cell Biology
Advisor: Pramod Srivastava, Professor, Immunology, and Director, Carole and Ray Neag Comprehensive Cancer Center, UCHC

159. Where is My Next Class? Examination of Episodic Memory Through Forward Learning of Chronological Locations
Sarthak Patel, Physiology and Neurobiology
Shang Lin (Tommy) Lee, Biological Sciences and Psychology
Brian Timmerman, Psychology
Victoria Wickenheisser, Physiology and Neurobiology
Tabitha D’Souza, Graduate, Physiology and Neurobiology, May 2012
Advisor: Etan Markus, Professor and Associate Department Head, Psychology

160. Where is My Next Class? Examination of Episodic Memory Through Backward Learning of Chronological Locations
Brian Timmerman, Psychology
Shang Lin (Tommy) Lee, Biological Sciences and Psychology
Kyle Jenkins, Biological Sciences and Psychology
Yezmin Crespo-Adomo, Physiology and Neurobiology
Advisor: Etan Markus, Professor and Associate Department Head, Psychology

161. Design and Development of a Cross-linking Construct of the Protein Kinase R by Incorporation of an Unnatural Amino Acid
Prisma Lopez, Molecular and Cell Biology
Advisor: James Cole, Professor, Molecular and Cell Biology

162. Virulence Phenotype in Animal Models and Genome Comparisons of Environmental and Veterinary Aeromonas veronii Isolates
Stephanie Ha, Molecular and Cell Biology
Advisor: Joerg Graf, Associate Professor, Molecular and Cell Biology

163. Elucidating the Mechanism of Action of Small Molecule Inhibitors of the Hedgehog Signaling Pathway
Daniel Madden, Molecular and Cell Biology
Advisor: Kyle Hadden, Assistant Professor, Pharmaceutical Sciences
164. Development of a Mouse Model for the Disease of Heterotopic Bone Formation, Fibrodysplasia Ossificans Progressiva
Samantha Cummins, Molecular and Cell Biology and Individualized Major: Global Health and Social Issues
Advisor: David Goldhamer, Professor, Molecular and Cell Biology

165. Chemical Profiling and Biological Activity of Two Tunicate-Associated Marine Bacteria
Lyubina Yankova, Molecular and Cell Biology
Advisor: Marcy Balunas, Assistant Professor, Pharmaceutical Sciences

School of Pharmacy

166. Frankia Symbioses and Natural Product Drug Discovery
Julie Costello, Doctor of Pharmacy
Advisor: Marcy Balunas, Assistant Professor, Medicinal Chemistry

College of Liberal Arts and Sciences

167. Regulation of Dendritic Spine Morphology by BRAG1, a Protein Associated with X-Linked Intellectual Disability
Erin Good, Physiology and Neurobiology
Advisor: Randall Walikonis, Associate Professor, Physiology and Neurobiology

168. Analysis of Ax2 Dictyostelium Discoideum Motility Under Varied Conditions
Matei Manea, Molecular and Cell Biology
Advisor: David Knecht, Professor, Molecular and Cell Biology

169. Enhancing the Activity of Antimicrobial Peptides by Means of Inorganic Chemistry
Sai Nagella, Molecular and Cell Biology
Advisor: Alfredo Angeles-Boza, Assistant Professor, Chemistry

170F. Addressing Heart Disease through Community Health Workers (CHW): A Community-level Approach to Improving Access among the Underserved in Hartford, CT
Mitali Mali, Physiology and Neurobiology and Human Rights
Advisor: Randall Walikonis, Associate Professor, Physiology and Neurobiology
Advisor: Teresa Frankhauser, Respiratory Therapist/Community Health Worker, Central CT Area Health Education Center
171. A Comparison of Traits in Native Alternatives to Invasive Plant Species
Kylie Martinod, Ecology & Evolutionary Biology
Advisor: John Silander, Professor Emeritus, Ecology and Evolutionary Biology

172. Salinity Preference of Threespine Stickleback over Early Development
Samantha Beynor, Biological Sciences
Advisor: Eric Schultz, Professor, Ecology and Evolutionary Biology

173. Effect of the Invasive Zebra Mussel on Rainbow Smelt Feeding Ecology in the Hudson River
Cody Roberge, Ecology and Evolutionary Biology
Advisor: Eric Schultz, Professor, Ecology and Evolutionary Biology

174. Investigation into the Development of Magicicada of Different Species throughout the Eastern United States
Erin Dwyer, Physiology and Neurobiology
Advisor: Chris Simon, Professor, Ecology and Evolutionary Biology

175. Phylogenetic Identification of Green Algae that Symbiose with Spotted Salamander Eggs
Crystal Xue, Molecular and Cell Biology
Advisor: Louise Lewis, Professor, Ecology and Evolutionary Biology

176. Gene Trees vs Species Trees: Piecing Together the Evolutionary History of the New Zealand Cicada Genus Kikihia
Sarah Banker, Molecular and Cell Biology
Advisor: Chris Simon, Professor, Ecology and Evolutionary Biology
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