

## Grants from the March 15, 2006 Deadline

Alphabetical by Institution

College/ University	Subject	Title	Student Name	Mentor
American University	Ecology	Assessing Biogeochemical Processes of A Freshwater Tidal Estuary through Microbial and Nutrient Composition	Caroline Fortunato	Bushaw-Newton, Karen L.
Appalachian State University	Conservation Biology	Physical Variables and Community Structure of the White Rocks Cliff System, Cumberland Gap National Historical Park	David Ballinger	Walker, Gary L.
Appalachian State University	Ecology	Chytrids vs Amphibians: Emerging Disease or History of Natural Selection?	Jorge Esquivel	Tuberty, Shea R.
Appalachian State University	Conservation Biology	Stable Isotope Analysis of Commercially Important Marine Invertebrates from Belize	Robert Thigpen	Creed, Robert
Arizona State University	Physiology/ Functional Morphology	Biomechanical Analysis of Strain in the Primate Pelvis	Kristi Lewton	Spencer, Mark
Arizona State University	Behavioral Ecology	Iridescent Structural Coloration as a Status Signal in Anna's Hummingbird ( <i>Calypte anna</i> )	Melissa Meadows	McGraw, Kevin J.
Arizona State University	Systematics/ Evolutionary Biology	Nitrogen Limitation and Sexually Dimorphic Pterin Pigmentation in a Pierid Butterfly	Nathan Morehouse	Rutowski, Ronald L.
Arizona State University	Anthropology	Three-dimensional Morphometrics and Kinematics of the Anthropoid Wrist and the Evolution of Knuckle-walking	Caley Orr	Marzke, Mary W.
Auburn University	Engineering	Biomimetic Therapeutic Contact Lenses For The Enhanced Loading And Extended Release Of Ocular Therapeutics	Siddarth Venkatesh	Byrne, Mark E.
Ben-Gurion University of the Negev	Physiology/ Functional Morphology	Is Digestion of Dietary Oxalate in Fat Sand Rat Guts by Symbiotic Bacteria Reduced by increased Calcium Intake?	Niv Palgi	Pinshow, Berry
California State University-Long Beach	Paleontology/ Sedimentation	Biogenic Silica as a Climatic Proxy for Monsoon Intensity in Vietnam Over the Last 1200 Years	Carlye Peterson	Stevens, Lora R.
California State University-San Bernardino	Psychology	Top-down Modulation by Medical Prefrontal Cortex of Basal Forebrain Activation of Auditory Cortex During Learning	Candice Chavez	Butt, Allen E.
California State University-San Bernardino	Psychology	Basal Forebrain Involvement in Pavlovian Conditioning: An Animal Model of Alzheimer's Disease	Erica Torner	Butt, Allen E.
Case Western Reserve University	Physics/ Astronomy	Multi-filter Photometric Imaging of the ICL in the Core of the Virgo Cluster	Craig Rudick	Mihos, Chris
Clemson University	Conservation Biology	Multi-scale Foraging Habitat Selection by Bats in the Southern Appalachian Mountains	Joy O'Keefe	Loeb, Susan C.
Columbia University	Physics/ Astronomy	ACS Development to Map the Polarization of the Cosmic Microwave Background Using EBEX	Britt Reichborn-Kjennerud	Blaer, Allan S.

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Cornell University	Ecology	Local Community Structure of Related Plant Species via Direct and Indirect Ecological Interactions	Michael Stastny	Agrawal, Anurag
Cornell University	Cell Biology/ Biochemistry	Effects of High Progesterone on Avian Sex Chromosome Segregation During the Sex-determining Division of Meiosis	Stephanie van Veen	Adkins-Regan, Elizabeth
Davidson College	Ecology	Eating Your Neighbor: The Role of Predation in Structuring Stream Salamander Guilds	Kristen Cecala	Dorcas, Michael E.
Drexel University	Engineering	Measuring Local Properties by Nanoindentation Using a Tapered Flat Punch Indenter	Siddhartha Pathak	Kalidindi, Surya R.
Drexel University	Engineering	Phase Structures of Hierarchically Self Assembled Liquid Crystalline Rod-Coil Block Copolymers with Bent-Core Mesogens	Kishore Tenneti	Li, Christopher Y.
Duke University	Systematics/ Evolutionary Biology	The Role of Postcopulatory Sexual Selection in Driving the Evolution of Reproductive Proteins in <i>Drosophila</i>	Audrey Chang	Noor, Mohamed A.
Duke University	Psychology	Attentional Effects of Video Game Playing: Purely Visual or Multisensory Causes and Effects?	Kerry Jordan	Mitroff, Stephen
Duke University	Conservation Biology	Examining the Insidious Effects of Hunting in Disrupting the Critical Role of Animals in the Perpetuation of Tropical Rainforests	Varun Swamy	Terborgh, John W.
Duke University	Systematics/ Evolutionary Biology	The Invasion and Population Dynamics of the Parasitic Plant, <i>Epifagus virginiana</i>	Yi-Hsin Tsai	Manos, Paul
East Carolina University	Systematics/ Evolutionary Biology	Selfng-Induced Flower Senescence: An Unrecognized Mode of Pollen Discounting	Jennifer Weber	Goodwillie, Carol
Eckerd College	Ecology	Effect of Fiddler Crabs on Mangrove Seedling Growth in Cockroach Bay, Florida	Christie Wilcox	Smith, Nancy F.
Florida Institute of Technology	Behavioral Ecology	Habitat Alteration and Its Affect on Predator-Prey Interactions of the Invasive Pike Killifish and the Native Mosquitofish	Jamie Wagner	Turingan, Ralph G.
Florida Institute of Technology	Petrology/ Geochemistry	The Role of Mineral Suspended Solids in the Photochemical Cycling of Carbon Associated with CDOM	Debra Woodall	Trefry, John H.
George Washington University	Chemistry	Synthesis of Lanthanide Oxalates via In-Situ Ligand Formation: Decarboxylation, Organic Oxidation, and the Reductive Coupling of Adventitious Carbon Dioxide	Karah Knope	Cahill, Christopher
Georgetown University	Physiology/ Functional Morphology	Pax3 and Pax7 Protein Expression and Localization in Skeletal Muscle after Injury to the Peripheral and Central Nervous System	Meridith Mikulich	Hyatt, Jon-Philippe K.
Georgia State University	Psychology	Complex Trauma Exposure and Psychological Distress in Incarcerated Juvenile Offenders	Samuel Fasulo	Jurkovic, Gregory J.

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Grand Valley State University	Behavioral Ecology	Analysis of Microbial Assemblages in Mated Tree Swallows using Denaturing Gradient Gel Electrophoresis	Jodi Den Uyl	Thorpe, Patrick A.
Harvard University	Anthropology	The Effect of Male Presence on Female Feeding Efficiency Among the Chimpanzees of the Budongo Forest, Uganda	Zarin Machanda	Wrangham, Richard W.
Harvard University	Anthropology	Why Red Colobus: Exploring Arboreal Behaviors in Colobines That May Impact Chimp Hunting Preferences	Corin McLean	Wrangham, Richard W.
I. Beritashvili Institute of Physiology	Physiology/ Functional Morphology	The Morphologic Changes of Structural Elements of Rat Hippocampus Provoked by Experimental Temporal Lobe Epilepsy	Maia Kiladze	Japaridze, Nadezhda
Illinois State University	Physiology/ Functional Morphology	Putative Role for the Brain in Temperature-dependent Sex Determination	Ryan Paitz	Bowden, Rachel M.
Indiana State University	Physiology/ Functional Morphology	Maternal Stress and Dynamics of Alternative Reproductive Tactics in Male Offspring	Maria Thaker	Hews, Diana K.
Indiana University Bloomington	Behavioral Ecology	Hormones, Plasticity, and Evolution Following Colonization of a Novel, Anthropogenic Environment	Jonathan Atwell	Ketterson, Ellen D.
Indiana University Bloomington	Physics/ Astronomy	Lithium Abundance Of NGC 6253 - The Most Metal-Rich Open Cluster	Jeff Cummings	Deliyannis, Constantine P.
Indiana University Bloomington	Paleontology/ Sedimentation	Investigation of the Ultrastructural Basis of Taphonomic Biases Against Preservation of Polyplacophorans	Stephaney Puchalski	Johnson, Claudia C.
Indiana University School of Medicine	Cell Biology/ Biochemistry	The GH/IGF-I axis and Postnatal Growth of Weaver Mutant Mice	Weiguo Yao	Lee, Wei-Hua
Iowa State University	Behavioral Ecology	Effect of Age on the Trade-off between Reproductive Effort and Immune Function in Tree Swallows <i>Tachycineta Bicolor</i>	Maria Palacios	Vleck, Carol M.
Johns Hopkins University School of Medicine	Cell Biology/ Biochemistry	Molecular Basis of Cell Fate Specification in the Mammalian Hypothalamus	Daniel Lee	Blackshaw, Seth
Johns Hopkins University School of Medicine	Paleontology/ Sedimentation	Testing for Dinosaur-Angiosperm Coevolutionary Relationships with an Analysis of Marginocephalian Dental Microwear and Jaw Morphology	Frank Varriale	Weishampel, David B.
Kansas State University	Engineering	Assessing the Use of Poplars for Hydraulically Controlling a Groundwater Plume	Laura Christianson	Hutchinson, Stacy L.
Kent State University	Ecology	The Maintenance of Androdioecy via Metapopulation Dynamics in the Clam Shrimp <i>Eulimnadia feriensis</i>	Sadie Reed	Weeks, Stephen C.

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Lehigh University	Hydrology/ Geomorphology	Long-term Erosion Rate Response to Fault Activity in the Lemhi Range, Eastern Idaho	Patrick Belmont	Pazzaglia, Frank J.
Lehigh University	Tectonics/ Geophysics	Broadband Geodesy, Great Earthquakes, and Vertical Tectonics of the Hellenic Subduction Zone, Crete, Greece	Karl Wegmann	Pazzaglia, Frank J.
Lomonosov Moscow State University	Conservation Biology	Changes in the Genetic Diversity of the Endangered Mednyi Island Arctic Fox Population ( <i>Alopex lagopus semenovi</i> Ognev 1931) Passed through a 'Bottleneck'	Anna Ploshnitsa	Goltsman, Mikhail E.
Louisiana State University-Baton Rouge	Ecology	Cold Tolerance and Cryptic Species in <i>Melampus bidentatus</i>	Alice Dennis	Hellberg, Michael E.
Louisiana State University-Baton Rouge	Systematics/ Evolutionary Biology	Phylogenetic Analysis of Microhabitat Differentiation and Metabolic Rate in the Reef Fish Genus <i>Acanthemblemaria</i>	Ron Eytan	Hellberg, Michael E.
Louisiana State University-Baton Rouge	Computer Science/ Mathematics	Evaluation of Mathematical Processes and Calibration Statistics on Diode Arrays Generated Data	Claudia Leonardi	Geaghan, James P.
Louisiana State University-Baton Rouge	Paleontology/ Sedimentation	Proxy Hurricane Records for the Western and Southern Caribbean	Terrence McCloskey	Liu, Kam-biu
Louisiana State University-Baton Rouge	Systematics/ Evolutionary Biology	Diversification Processes Inferred from Avian Suture Zones and Areas of Contact in an Interfluvium in Northwestern Amazonia	Luciano Naka	Brumfield, Robb T.
Louisiana State University-Baton Rouge	Chemistry	Nanoparticle Synthesis	Robert Singleton	Warner, Isiah M.
Massachusetts Institute of Technology	Psychology	Learning Words to Talk about the World: linguistic Representations Underlying Word Segmentation and Word Learning	Michael Frank	Gibson, Edward
Massey University	Behavioral Ecology	Social Organization and Mating System of the North Island Brown Kiwi ( <i>Apteryx mantelli</i> ) in a High-density Population	Birgit Ziesemann	Brunton, Dianne H.
Miami University Ohio	Cell Biology/ Biochemistry	A Proteomic Study on the Molecular Roles of Silicon Nutrition in Cadmium Tolerance of Rice ( <i>Oryza sativa</i> L.)	Chika Nwugo	Huerta, Alfredo J.
Miami University Ohio	Physics/ Astronomy	A Novel Cellular High Pressure Imaging Chamber	Erica Raber	Urayama, Paul K.
Michigan State University	Behavioral Ecology	Social Complexity and Comparative General Intelligence in Mammalian Carnivores	Sarah Benson-Amram	Holekamp, Kay E.
Michigan State University	Ecology	Limitations to Recovery of <i>Hesperodiaptomus Shoshone</i> after Exotic Fish Eradication: a Multi-lake Test of the Allee Effect	Andrew Kramer	Sarnelle, Orlando
Michigan State University	Behavioral Ecology	A Bacterial Mechanism for Group-specific Odors in Mammals	Kevin Theis	Holekamp, Kay E.

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Mississippi State University	Physiology/ Functional Morphology	Pseudomonas aeruginosa Outer Membrane Properties Associated with Intrinsic Triclosan Resistance	Matthew Ellison	Champlin, Franklin R.
National University of Singapore	Systematics/ Evolutionary Biology	Using Non-Invasive Samples for the Study of Brain and Cognition Genes in Primates	Farhan Ali	Meier, Rudolf
New Mexico State University	Systematics/ Evolutionary Biology	Assessing Temporal Concordance of Parrot Radiations in the New World: A Species-level Phylogeny of Neotropical Psittaciformes	Erin Schirtzinger	Wright, Timothy F.
Northeastern University	Ecology	The Role of Genetic Diversity in Marine Community Resistance to Biological Invasions	Timothy Dwyer	Trussell, Geoffrey C.
Ohio State University	Physiology/ Functional Morphology	Photoperiodic Regulation of Experimental Autoimmune Encephalomyelitis	Zachary Weil	Nelson, Randy J.
Oklahoma State University	Physics/ Astronomy	Intrinsic Spin Hall Effect in Semiconductors with Spin Orbital Interaction	Zhenyue Zhu	Xie, Xincheng
Old Dominion University	Ecology	Effects of Amphibian Decline on the Trophic Ecology of Mollusk-Eating Snakes	Julie Ray	Savitzky, Alan H.
Oregon State University	Hydrology/ Geomorphology	Illuminating the Black Box: The Influence of Forest Transpiration on Stream Discharge in a Small Headwater Catchment	Holly Barnard	Bond, Barbara J.
Pennsylvania State University	Psychology	Orienting Visual Attention in Space	Peggy Chen	Mordkoff, J. T.
Pennsylvania State University	Anthropology	The Biological Impacts of Expanding Cultural Systems: Roman Imperialism, Incipient Urbanism, and Skeletal Biology in Contexts of Increasing Social Complexity	Charles Speal	Snow, Dean R.
Princeton University	Behavioral Ecology	Vulnerability and the Evolution of Honest Signaling	Mark Laidre	Altmann, Jeanne
Purdue University-West Lafayette	Ecology	Population re-structuring in Complex Life Cycles: The Effects of Intermediate Host Specificity and Vagility on Parasite Transmission Dynamics	Jillian Detwiler	Minchella, Dennis J.
Saint Louis University	Chemistry	Improved Catalysts for Alkene Hydroamination	Kevin Cormier	Lewis, Michael A.
Saint Louis University	Chemistry	A Thermodynamic Study of Naturally Occurring 2x2 Loops in RNA	Martha Sedabres	Znosko, Brent M.
Salisbury University	Cell Biology/ Biochemistry	Docosahexenoic Acid and the Metastatic Capacity of Murine Melanoma Cells	Adam Lowe	Williams, Ellis E.
Simon Fraser University	Ecology	The Effect of Landscape-level Variation of Dissolved Organic Carbon on Food Web Structure in Mackenzie Delta Lakes	Suzanne Tank	Lesack, Lance

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Southern Illinois University-Carbondale	Anthropology	Male-Female Interactions in Captive Cotton-top Tamarins ( <i>Saguinus oedipus</i> )	Chihiro Shibata	Ford, Susan M.
St Mary's College of Maryland	Behavioral Ecology	An Investigation of the Response of a Population of Red-winged Blackbirds ( <i>Agelaius phoeniceus</i> ) to Variable Songs from Foreign Populations	Megan Stallman	Price, John J.
St. Mary's College of Maryland	Behavioral Ecology	The Function of Bioluminescence in the Ctenophore <i>Mnemiopsis leidyi</i> : a Test of the "burglar-alarm" Hypothesis	Amelia Fort	Tanner, Christopher E.
State University of New York at Binghamton	Ecology	Can the Presence of an Invasive Species Alter Lake Chemistry due to Suppression of a Native Macrophyte?	Rebecca Urban	Titus, John E.
State University of New York at Plattsburgh	Cell Biology/ Biochemistry	Structural and Functional Analysis of the Hemoglobin Encoding Gene in <i>Paramecium tetraurelia</i>	Chrissa Wright	Elwess, Nancy L.
State University of New York at Stony Brook	Physics/ Astronomy	Confronting a Trio of Neutrino Puzzles	Christian Holzner	Goldhaber, Alfred S.
State University of New York at Syracuse	Behavioral Ecology	Phototactic Swimming and Diel Horizontal Migration by Zooplankton	Jason Williams	Schulz, Kimberly L.
Susquehanna University	Chemistry	Synthesis and Evaluation of Heteroscorpionate Tungsten Complexes Separated by Bridging Ligands	Erik Hosler	Chohan, Balwant S.
Swarthmore College	Systematics/ Evolutionary Biology	BMP7 and the Evolution of the Diastataxic Avian Wing	Megan Nelson	Prum, Richard O.
Syracuse University	Systematics/ Evolutionary Biology	Plumage Evolution in Bearded Manakins	Adam Stein	Uy, J. Albert C.
Tennessee Technological University	Chemistry	Extraction of Cesium by Various Functionalized Calix[4]arene-Crown-6 Ethers	Viola Meadors	Ensor, Dale D.
Texas A&M University-College Station	Paleontology/ Sedimentation	The Role of Local and Regional Processes on Diversity of Fossil Communities	Leigh Fall	Olszewski, Thomas D.
Texas Tech University	Behavioral Ecology	Do Songbirds use Proximate Cues to Avoid Predators in Space?	Quinn Emmering	Schmidt, Kenneth A.
Tufts University	Conservation Biology	Does Stress Compromise Translocation and Reintroduction Efforts?	Molly Dickens	Romero, L. M.
University of Alabama at Tuscaloosa	Physics/ Astronomy	How Large is Too Large?: the Black Hole Upper Mass Limit	Alana May	Keel, William C.
University of Arizona	Paleontology/ Sedimentation	The Modern Sedimentology of Andean Foreland Basin Lakes: Keys to Understanding Lacustrine Deposits in Ancient Foreland Basins	Michael McGlue	Cohen, Andrew S.

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University of Calgary	Behavioral Ecology	The Role of Nutrition and Parasite Load in Determining Black Howler Monkey Population Density in a Hurricane- damaged Forest in Belize	Alison Behie	Pavelka, Mary S.
University of Calgary	Chemistry	Design of Liposome Microarray Systems for High Throughput Protein-Lipid Membrane Interaction Studies	Melanie Burger	Cosa, Gonzalo
University of California- Berkeley	Behavioral Ecology	Ink Release by Deep-Sea Squids: A Chemical Deterrent to Predation?	Stephanie Bush	Caldwell, Roy L.
University of California- Berkeley	Behavioral Ecology	Genetic Test of Adaptive Benefits of Cooperative Male Parental Care in Tamarins	Samuel Diaz- Munoz	Lacey, Eileen A.
University of California- Berkeley	Anthropology	Archaeology and History of Advance, Tent-Village of the Kaweah Co-operative Colony, ca. 1886-1892.	Stacy Kozakavich	Wilkie, Laurie A.
University of California- Berkeley	Systematics/ Evolutionary Biology	Evolution of Quadrupedality in Dinosaurs and the Ontogenetic and Mechanical Implications on Limb Bone Histology	Andrew Lee	Padian, Kevin
University of California- Berkeley	Behavioral Ecology	Chemical Defense from Predation in Hatchlings of the Blue Ringed Octopus <i>Hapalochlaena lunulata</i>	Becky Williams	Caldwell, Roy L.
University of California-Davis	Ecology	Do alternate Stable States Exist in Bodega Harbor Mudflats?	Christy Bowles	Grosholz, Edwin D.
University of California-Davis	Anthropology	Resource Extraction Economics of a Boom Town, Gothic Colorado 1878-1900.	Susan Glover	Winterhalder, Bruce P.
University of California- Irvine	Physiology/ Functional Morphology	The Persistence of Discontinuous Respiration in the Genus <i>Gerris</i> : The role of Water Conservation on Respiratory Patterns	Heidy Contreras	Bradley, Timothy J.
University of California- Irvine	Physics/ Astronomy	Cosmology Constraints from a Unified Picture of Galaxy Cluster Dynamical State and its Evolution	Brian Hart	Buote, David
University of California- Irvine	Behavioral Ecology	Blue Opsin Gene-mediated Blue Color Vision in <i>Lycaena</i> Butterflies	Nelida Pohl	Briscoe, Adriana D.
University of California-Los Angeles	Psychology	The Stress Response of Depressed and At- Risk Individuals	Kimberly Dienes	Hammen, Constance L.
University of California-Los Angeles	Behavioral Ecology	Queen Investment and Implications for Colony Founding Strategies in Harvester Ants (genus <i>Pogonomyrmex</i> )	Brittany Enzmann	Nonacs, Peter N.
University of California-Los Angeles	Behavioral Ecology	The Evolution of Cooperation and Social Correlates of Individual Recognition	Karen Kapheim	Nonacs, Peter N.
University of California-Los Angeles	Behavioral Ecology	Is Blue Egg Color a Sexually Selected Trait in Mexican Jays?	John McCormack	Smith, Thomas B.

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University of California-San Diego	Anthropology	Energy Expenditure in Postmenopausal Forager Women: An Experimental Model Based on North American Women	Andrew Froehle	Schoeninger, Margaret J.
University of California-San Diego	Chemistry	Interfacial Bonding Structure and Kinetic Mechanism of the High-K on III-V Compound Semiconductor	Jian Shen	Kummel, Andrew C.
University of California-Santa Barbara	Ecology	Production and Dispersal of a Harvested Mussel in South African Marine Reserves	Robin Pelc	Warner, Robert R.
University of California-Santa Cruz	Tectonics/ Geophysics	Paleogene Elevation in North Central Tibet: Testing Models for Growth of the Tibetan Plateau	Peter Lippert	Coe, Robert S.
University of California-Santa Cruz	Physiology/ Functional Morphology	Thermal Limitations of Northern Fur Seals ( <i>Callorhinus ursinus</i> ): A Comparative Study with California Sea Lions ( <i>Zalophus californianus</i> )	Heather Mostman-Liwanag	Williams, Terrie M.
University of Central Arkansas	Ecology	Sex-based Differences in Habitat Selection in a Turtle Species that does not use Aerial Basking to Thermoregulate: Implications for Reproduction	Christopher Howey	Dinkelacker, Stephen A.
University of Chicago	Ecology	Synergistic Interactions Between Invasive Species	Lis Nelis	Wootton, John T.
University of Chicago	Behavioral Ecology	The Function of Introductory Copulations in Captive Goeldi's Monkeys	Kara Nuss	Margulis, Susan W.
University of Cincinnati	Engineering	Destruction of the Cyanobacterial Toxins Microcystin- LR and Cylindrospermopsin with Advanced Oxidation Technologies (AOTs)	Maria Antoniou	Dionysiou, Dionysios D.
University of Cincinnati	Paleontology/ Sedimentation	Exploring the Evolution of Morphological Disparity within and among Species of the Bivalve Genus Cucullaea	Devin Buick	Miller, Arnold I.
University of Cincinnati	Paleontology/ Sedimentation	Characterization of a New Cambrian Lagerstätte: a New Non-Uniformitarian Biofacies	Anthony Kramer	Brett, Carlton E.
University of Cincinnati	Hydrology/ Geomorphology	Erosion Evolution in Arid Environments Derived from the Study of Pre-Columbian Agricultural Terraces in Southern Peru	Ana Londono	Nash, David B.
University of Colorado at Boulder	Anthropology	The Community Ecology of Sympatric Nocturnal Primates and Bats: Understanding Dietary Niche Separation at the Blyde River Canyon Nature Reserve, South Africa	Krista Fish	Sauther, Michelle L.
University of Colorado at Boulder	Anthropology	The Late Classic Collapse at Rio Viejo, Oaxaca: Commoner Economic Response	Jessica Hedgepeth	Joyce, Arthur A.
University of Colorado at Boulder	Physics/ Astronomy	The Vanishing Shock Emission in Supernova Remnant 1987A?	Kevin Heng	McCray, Richard A.

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University of Colorado at Boulder	Ecology	The Interaction Between Herbivory and Pollination in <i>Monarda Fistulosa</i>	Ken Keefover-Ring	Linhart, Yan
University of Colorado at Boulder	Physics/ Astronomy	The Resolution of Sun Occluding Space Debris	Brian Poller	Culp, Robert D.
University of Connecticut	Ecology	Investigation of the Role of the Hemocytes in the Harmful Algae-bivalve Mollusc Trophic Interaction	Helene Hegaret	Shumway, Sandra E.
University of Connecticut	Behavioral Ecology	Behavioral Interactions Among Breeding Male Bullfrogs ( <i>Rana catesbeiana</i> ) and Green Frogs ( <i>Rana clamitans</i> ) at Different Spatial and Temporal Scales	Susan Herrick	Wells, Kentwood D.
University of Delaware	Physiology/ Functional Morphology	Characterization of Diffusion Coefficients of Molecules in the Lens Capsule	Brian Danysh	Duncan, Melinda K.
University of Edinburgh	Ecology	Carnivores as Sentinels of Emerging and Resurging Human Diseases in East Africa	Jo Halliday	Cleaveland, Sarah
University of Florida	Physiology/ Functional Morphology	To Drink or not to Drink: Behavioral Osmoregulation in an Estuarine Snake	Leslie Babonis	Lillywhite, Harvey B.
University of Florida	Hydrology/ Geomorphology	Linking Land Use Patterns and Aquatic Ecosystem Function in the Temash Watershed, Belize	David Buck	Brenner, Mark
University of Florida	Ecology	Interspecific Territoriality and Habitat Specialization as Potential Mechanisms for Avian Species Replacements along Tropical Altitudinal Gradients	Jill Jankowski	Robinson, Scott K.
University of Florida	Psychology	Comprehension of Negation in Aging: An Assessment of Inhibition Difficulties	Sara Margolin	Abrams, Lise
University of Florida	Systematics/ Evolutionary Biology	Using Pthirus pubis as a Marker for Human Evolutionary History	Melissa Toups	Reed, David L.
University of Florida	Psychology	Effects of Task Instructions on Off-Topic Verbosity in Young and Older Adults	Dunja Trunk	Abrams, Lise
University of Georgia	Cell Biology/ Biochemistry	Investigation of the Genetic Requirements for T-circle and T-loop Formation	Evelina Basenko	McEachern, Michael J.
University of Georgia	Cell Biology/ Biochemistry	Energy Conservation and Bioenergetic Parameters in a Novel Group of Extremophiles, the Halophilic Alkalithermophiles	Noha Mesbah	Wiegel, Juergen K.
University of Georgia	Ecology	Impacts of <i>Solenopsis Invicta</i> on Seed Dispersal in the Longleaf Pine Ecosystem	Katharine Stuble	Wyatt, Robert E.
University of Georgia	Anthropology	Children's Subsistence Contributions to Pastoral Households in the Drylands of East Africa	Tammy Watkins	Tucker, Bram T.
University of Hawaii at Manoa	Systematics/ Evolutionary Biology	Lineage Diversification within Insular Flora: The Systematics and Biogeography of the Pacific Genus <i>Astelia</i> ( <i>Asteliaceae</i> )	Joanne Birch	Morden, Clifford W.

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University of Hawaii at Manoa	Conservation Biology	Estimating Jaguar Densities Using Capture-recapture Analysis: Comparison of a Protected Area and an Unprotected Area in Roraima, Northern Brazil	Paula Capece	Fragoso, José Manuel V.
University of Idaho	Behavioral Ecology	Inbreeding in the National Bison Range, Montana Pronghorn Population	Stacey Dunn	Byers, John A.
University of Illinois at Chicago	Anthropology	Classic Maya Socio-Political Interactions in Ancient Guatemala	Jeffrey Buechler	Palka, Joel W.
University of Illinois at Chicago	Engineering	Light-regulated GABA <sub>A</sub> receptors	Niraj Muni	Pepperberg, David R.
University of Illinois at Chicago	Engineering	Retinal Signal Processing Studied by Ganglion Cell and Electroretinographic Recording	Ambarish Pawar	Pepperberg, David R.
University of Illinois at Chicago	Engineering	A Computational Approach for Investigating Intracranial Dynamics in Humans based on a Patient Specific Approach"	Mahadevabharath Somayaji	Linninger, Andreas
University of Illinois at Urbana-Champaign	Ecology	Exploring Fish Diversity as a Determinant of Ecosystem Properties in Aquatic Food Webs	Michael Carey	Wahl, David H.
University of Illinois at Urbana-Champaign	Anthropology	Feeding Behavior and the Evolution of Extended Juvenility in Primates	Melissa Raquet-Schofield	Leigh, Steven R.
University of Illinois at Urbana-Champaign	Cell Biology/ Biochemistry	The Impact of Environmental Changes on Microbial Communities Present in Coral Reefs	Emily Wisseman	Fouke, Bruce W.
University of Illinois at Urbana-Champaign	Systematics/ Evolutionary Biology	Parasite-host Interactions Between Aquatic Mites ( <i>Acari: Hydrachnidia</i> ) and Mosquitoes ( <i>Diptera: Culicidae</i> ) in Urban and Rural Freshwater Habitats	Sandra Yi	Francis, Bettina M.
University of Iowa	Paleontology/ Sedimentation	Sequence Stratigraphy and Facies Analyses of the Lower Dakota Formation, Southeast Nebraska	Jesse Koch	Brenner, Robert L.
University of Iowa	Psychology	Acoustic Cues for Anticipation in Speech Perception	Cheyenne Munson	McMurray, Bob
University of Kansas	Systematics/ Evolutionary Biology	Systematics and Historical Biogeography of the Alternifolium Group of the Flowering Plant Genus Chrysosplenium ( <i>Saxifragaceae</i> )	Nicholas Levensen	Mort, Mark E.
University of Kansas	Petrology/ Geochemistry	A Paleoclimatic and Paleohydrologic Reconstruction of Pleistocene Fossil Lake, Oregon Using Faunal Assemblages and Stable Isotope Analyses	Julie Retrum	Gonzalez, Luis A.
University of Kent at Canterbury	Psychology	The Effects of Power on Knowledge Accessibility within a Person x Situation Framework	Mario Weick	Guinote, Ana

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University of Kentucky	Physiology/ Functional Morphology	The Effects of P2Y12 Polymorphisms on Platelet Receptor Density and Activation	Julie Oestreich	Akers, Wendell S.
University of Kentucky	Ecology	Brood Determination of the Polyembryonic Parasitoid, <i>Copidosoma bakeri</i> (Howard)	Yoriko Saeki	Crowley, Philip H.
University of Louisiana at Lafayette	Physiology/ Functional Morphology	Are Elicitor Proteins Responsible for Necrosis and Lesions During Witches' Broom Disease?	Roseline Devariste	Hasenstein, Karl H.
University of Louisiana at Lafayette	Systematics/ Evolutionary Biology	Evolutionary Vestigialization of Complex Features using a Rattlesnake Model	Ali Rabatsky	Moon, Brad R.
University of Maine, Orono	Hydrology/ Geomorphology	Reconstructing the Late-Quaternary Glacial History of Nevado Coropuna, Peru	Gordon Bromley	Hall, Brenda L.
University of Manitoba	Ecology	Where's the Beef?: Effects of Global Warming and Arctic Pack Ice Retreat on the Breeding Success of a Marine Top Predator, the Black Guillemot ( <i>Cepphus grylle</i> )	Benjamin Harter	Davoren, Gail K.
University of Maryland, Baltimore County	Behavioral Ecology	Exploring Female Coloration in Streak-Backed Orioles: Variation, Behavior, and Evolution	Lynna Kiere	Omland, Kevin E.
University of Maryland, College Park	Behavioral Ecology	An Investigation of Social Learning & Decision-making while Foraging in the Short-tailed Fruit Bat, <i>Carollia perspicillata</i>	Genevieve Spanjer	Moss, Cynthia F.
University of Massachusetts Amherst	Ecology	Site Fidelity and Human Impact on the Medium Ground Finch ( <i>Geospiza foris</i> ) on Santa Cruz, Galápagos Islands	Ana Gabela	Podos, Jeffrey
University of Memphis	Physiology/ Functional Morphology	Food Supplementation, Hatching Asynchrony, and Nutritional Status of Florida Scrub-Jay ( <i>Aphelocoma coerulescens</i> ) Nestlings	Michelle Rensel	Schoech, Stephan J.
University of Michigan-Ann Arbor	Ecology	Evapotranspiration and Ground-Water Flow Systems in a Fresh-Water Coastal Ridge-and-Swale System	Martha Carlson	Wiley, Mike J.
University of Michigan-Ann Arbor	Systematics/ Evolutionary Biology	Why are the Andes so Diverse? Testing Models of Speciation and Morphological Diversity	Lucia Luna-Wong	Myers, Philip
University of Minnesota Duluth	Ecology	Potential Local Adaptation of a tumbling flower beetle across the prairie/forest boundary	Michael Dixon	Craig, Timothy P.
University of Minnesota, Twin Cities	Psychology	Examination of Potential Differential Timing of Repetition-priming and Anti-priming Effects	Rebecca Deason	Marsolek, Chad J.
University of Minnesota, Twin Cities	Physics/ Astronomy	Sensitivity of EBEX Detectors	Johannes Hubmayr	Hanany, Shaul
University of Minnesota, Twin Cities	Physics/ Astronomy	Broadband Millimeter Wavelength Anti-Reflection Technology for Observational Cosmology	Michael Milligan	Hanany, Shaul

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College/ University	Subject	Title	Student Name	Mentor
University of Mississippi	Physiology/ Functional Morphology	Developmental Regulation of Serotonin Signaling in Ovine Pulmonary Arteries	Ravi Goyal	Wilson, Sean M.
University of Mississippi	Behavioral Ecology	Factors Affecting Natal Dispersal in Two Species of <i>Ambystoma</i>	Patrick Yamnik	Buchholz, Richard
University of Missouri-St. Louis	Ecology	Effects of host sociality on parasite prevalence and intensity in Great Frigatebirds ( <i>Fregata minor</i> ) on Isla Genovesa, Galapagos	Iris Levin	Parker, Patricia G.
University of Nebraska at Lincoln	Behavioral Ecology	Association Costs in the Female Field Cricket, <i>Gryllus lineaticeps</i>	Cassandra Martin	Wagner, William E.
University of Nebraska at Lincoln	Systematics/ Evolutionary Biology	Historical Biogeography of Neotropical Fishes from the Orinoco and Essequibo River Basins	Stuart Willis	Orti, Guillermo
University of Nevada, Reno	Petrology/ Geochemistry	Arsenic-sulfide Oxidation: Kinetics and Reaction Mechanism Using Mixed Flow Reactor and Surface Microscopic Experiments	Shahnewaz Mohammad	Tempel, Regina N.
University of New Hampshire	Engineering	Microalgal Oil Extraction and In-situ Transesterification	Justin Ferrentino	Farag, Ihab H.
University of New Mexico	Hydrology/ Geomorphology	Geomorphic Response to Fire and Climate Change in Ponderosa Pine Forests, Sacramento Mountains, NM	Jedediah Frechette	Meyer, Grant A.
University of New Mexico	Hydrology/ Geomorphology	Impact of Holocene Sediment Dynamics and Historical Dam Construction on the Rio Chama, New Mexico: Implications for River Management	Benjamin Swanson	Meyer, Grant A.
University of North Carolina at Chapel Hill	Behavioral Ecology	Neuro-endocrine Mechanisms of Female Receptive Behavior in Tungara Frogs ( <i>Physalaemus pustulosus</i> )	Mukta Chakraborty	Burmeister, Sabrina S.
University of North Carolina at Chapel Hill	Physics/ Astronomy	The Rise of Skynet: UNC-Chapel Hill's Global Robotic Telescope Network	Andrew Foster	Reichart, Daniel E.
University of North Carolina at Chapel Hill	Physics/ Astronomy	Gamma Ray Bursts: Probing the Early Universe	Joshua Haislip	Reichart, Daniel E.
University of North Carolina at Chapel Hill	Cell Biology/ Biochemistry	Characterization of DNA Sequence Elements That Direct CpG Methylation of Breast Cancer Tumor Suppressor Genes	Ashley Rivenbark	Coleman, William B.
University of North Carolina at Chapel Hill	Anthropology	Deconstructing Time-Progressive Models of Prehistoric Warfare in the Southeastern United States	Ben Shields	Hutchinson, Dale L.
University of North Carolina at Chapel Hill	Cell Biology/ Biochemistry	Yes-associated Protein 65 kDa (YAP) and Heterogeneous Nuclear Ribonuclear Protein U (hnRNP U): A Possible Transcriptional Complex?	Pavani Thotakura	Milgram, Sharon L.
University of North Carolina at Chapel Hill	Physics/ Astronomy	Observations and Modeling of Gamma-Ray Burst Afterglows in the Blue	Adam Trotter	Reichart, Daniel E.

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University of North Carolina at Greensboro	Cell Biology/ Biochemistry	The Effect of Iron Excess on Osteoblast Phenotypic Development	Amy Kilbarger	Kipp, Deborah
University of North Carolina at Wilmington	Physiology/ Functional Morphology	Diffusive Constraints on Aerobic Metabolic Flux in Muscle	Jeffrey Overton	Kinsey, Stephen T.
University of North Carolina- Chapel Hill	Anthropology	Archaeological Survey of the Upper Moche Valley, Peru	Matthew Fariss	Billman, Brian R.
University of North Florida	Ecology	Potential for Range Expansion of the Invasive Green Mussel, <i>Perna viridis</i> : Reproductive Cycle and Larval Dispersal from a Point Source in St. Augustine, FL	Alyson Urian	Smith, Kelly J.
University of Notre Dame	Ecology	Food Web Dynamics of Macroinvertebrate Communities in Historically Logged, Headwater Streams in the Upper Peninsula of Michigan	Sally Entrekin	Lamberti, Gary A.
University of Rhode Island	Conservation Biology	Assessing Connectivity and Essential Fish Habitat for Reef Fish in Mangrove and Seagrass Environments Using otolith Microchemistry	Ivan Mateo	Durbin, Edward G.
University of South Carolina	Chemistry	Pharmacokinetics of a Novel Antihypertensive Agent MS23 i.v. in Rats	Binfeng Xia	Fox, Laura M.
University of South Florida	Paleontology/ Sedimentation	Age Estimation and Stratigraphic Resolution of Florida's Plio-Pleistocene Shell Beds Using Amino Acid Racemization Rates in Fossil Mollusks	Paul Sanford	Oches, Eric A.
University of Tennessee- Knoxville	Tectonics/ Geophysics	Developing Empirical Relationships Between Ground Penetrating Radar Reflection Amplitudes and Hydrologic Tracer Concentrations for Improving Characterization of Channelized Fluid Flow in Subhorizontal Bedrock Fractures	Kevin Burns	Baker, Gregory S.
University of Tennessee- Knoxville	Ecology	The Role of Mycorrhizal Fungi in Pinaceae Invasion on Isla Victoria, Nahuel Huapi National Park, Argentina	Martin Nunez	Simberloff, Daniel
University of Texas at Austin	Physics/ Astronomy	A Prototype Survey for Starforming High Redshift Galaxies	Joshua Adams	Hill, Gary J.
University of Texas at Austin	Systematics/ Evolutionary Biology	Morphology, Ontogeny, and Phylogeny of Recent and Fossil Members of the Unusual Lizard <i>Clade Xenosauridae</i>	Bhart-Anjan Bhullar	Bell, Christopher J.
University of Texas at Austin	Systematics/ Evolutionary Biology	Life-History Tradeoffs and the Evolution of the Acute Stress Response	Stephen Patterson	Breuner, Creagh W.
University of Texas at Austin	Physics/ Astronomy	Isotopic Abundances of Neutron-Capture Elements in Metal-Poor Stars	Ian Roederer	Snedden, Christopher
University of Utah	Paleontology/ Sedimentation	An Isotopic Study of East African Paleoaridity in the Pliocene and Pleistocene	Naomi Levin	Cerling, Thure E.

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College/ University	Subject	Title	Student Name	Mentor
University of Virginia	Ecology	The Role of Enemy Releasae and the Evolution of Increased Competitive Ability in the Invasion of Pacific U.S. Estuaries by <i>Spartina Alterniflora</i> Loisel	Jenica Allen	Carr, David E.
University of Washington	Physics/ Astronomy	Does Metallicity Affect the Fate of Massive Stars?	Ricardo Covarrubias	Dalcanton, Julianne
University of Washington	Systematics/ Evolutionary Biology	Evolution of a Spice	David Haak	Tewksbury, Joshua J.
University of Washington	Petrology/ Geochemistry	Holocene Climatic Variability Based on the Isotopic Analysis of Diatoms in Lake Sediment from East Greenland	Heather Heuser	Sletten, Ronald S.
University of Washington	Ecology	The Unseen Role of Fungal Pathogens in Driving Biodiversity	Noelle Machnicki	Tewksbury, Joshua J.
University of Washington	Engineering	Controlled Release of Osteoprotegerin from Hydrogel Scaffolds for Bone Regeneration	Jennifer Patterson	Stayton, Patrick S.
University of Washington	Physics/ Astronomy	Supercomputing Simulations of Disk Galaxy Truncation	Rok Roskar	Quinn, Thomas R.
University of Wisconsin-Madison	Physics/ Astronomy	Ammonia and CCS Studies of GLIMPSE Infrared Dark Clouds	Kathryn Devine	Churchwell, Ed B.
University of Wisconsin-Madison	Petrology/ Geochemistry	Granitoid Genesis in the South-eastern Adirondack Highlands, New York	Penelope Lancaster	Valley, John W.
University of Wisconsin-Madison	Physics/ Astronomy	Characterizing Beam Patterns of Antennas in the 75-110 GHz Band for a Novel Interferometer - the MBI	Siddharth Malu	Timbie, Peter T.
Utah State University	Psychology	The Effects of Naltrexone on the Resurgence of Alcohol Self-administration in Rats: A Novel Animal Model of Relapse	Christopher Podlesnik	Shahan, Timothy A.
Villanova University	Conservation Biology	Effects of habitat loss on social ecology and reproduction of the endangered White-breasted Thrasher ( <i>Ramphocinclus brachyurus</i> )	Jennifer Mortensen	Curry, Robert L.
Virginia Polytechnic Institute and State University	Systematics/ Evolutionary Biology	Evolution of Major Peanut Allergen Arah2	Sheena Friend	Hilu, Khidir W.
Virginia Polytechnic Institute and State University	Tectonics/ Geophysics	Detailed Thermobarometric Analysis of the Top of the Greater Himalayan Slab, Everest Massif, Nepal: Implications for Testing Channel Flow Models	Micah Jessup	Law, Richard D.
Virginia Polytechnic Institute and State University	Behavioral Ecology	Investigation of Physiological Mechanisms for Reproductive Suppression of Helpers in a Cooperatively Breeding Species	Amanda Malueg	Moore, Ignacio T.

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Wake Forest University School of Medicine	Cell Biology/ Biochemistry	Cardiac Tissue Regeneration using Amniotic Fluid Derived Stem Cells	Dawn Delo	Atala, Anthony J.
Wake Forest University School of Medicine	Physiology/ Functional Morphology	Thalamic Integration of Synaptic Input	Tiffany Fisher	Godwin, Dwayne W.
Wake Forest University School of Medicine	Physiology/ Functional Morphology	Role of the Novel Angiotensin [Ang-(1-7)] in Volume Regulation in Pregnancy	JaNae Joyner	Brosnihan, K. B.
Wake Forest University School of Medicine	Cell Biology/ Biochemistry	The Effect of Age and Growth Hormone/Insulin-like Growth Factor Axis on Glutamate Receptor Subunit Levels	Doris Molina	Brunso-Bechtold, Judy K.
Wartburg College	Physiology/ Functional Morphology	Gender Differences in the Effects of Nicotine on Spatial Learning, Memory, and Neurogenesis in Aged Adult Rats	James Mallen	Melville, John M.
Washington University in St. Louis	Physics/ Astronomy	Investigating the Conduction Velocity Asymmetry in Feedback Loops of the Avian Visual System	Sebastian Brandt	Wessel, Ralf
Washington University in St. Louis	Anthropology	A Report on the Ceramics from Guli Waabayo: Subsistence, Mobility, and Material Culture in Prehistoric Southern Somalia	Katherine Grillo	Marshall, Fiona B.
Washington University in St. Louis	Systematics/ Evolutionary Biology	Inferring the History of Adaptation to Climate from the Diversity and Distribution of Dodecatheon ( <i>Primulaceae</i> )	Brad Oberle	Schaal, Barbara A.
Washington University in St. Louis	Systematics/ Evolutionary Biology	Developmental Bases of Anolis Limb Length Variation	Thomas Sanger	Gibson-Brown, Jeremy J.
Washington University in St. Louis	Physics/ Astronomy	Extraordinary Electroconductance in In-GaAs Metal-semiconductor Hybrid Structures	Yun Wang	Solin, Stuart A.
Wayne State University	Cell Biology/ Biochemistry	Caldesmon Control of Microvascular Tone Following Traumatic Brain Injury	Noah Morgan	Kreipke, Christian W.
Western Washington University	Hydrology/ Geomorphology	Holocene Glaciation in the Sawtooth Mountains, Central Idaho	Brandon Mijal	Clark, Douglas H.
Western Washington University	Paleontology/ Sedimentation	Evidence for Paleotsunamis in Northern Puget Sound, Washington State, USA	Lori Riggleman	Suczek, Christopher A.
Widener University	Cell Biology/ Biochemistry	Isolation and Characterization of Parvalbumin Isoforms in Sheepshead and Rainbow Trout	Mohit Sirohi	Bastin, Loyd
Willamette University	Chemistry	Understanding Solubility: The Equilibrium Phase Diagram for the Binary Liquid System 3-Butyn-2-one / Water	Kevin Dean	Williamson, J. C.

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<b>College/ University</b>	<b>Subject</b>	<b>Title</b>	<b>Student Name</b>	<b>Mentor</b>
Yale University	Systematics/ Evolutionary Biology	Investigation of an Evolutionary Novelty: Epicalyx Evolution and the Adaptive Radiation of Dipsacaceae (Dipsacales) in the Mediterranean Basin	Sara Carlson	Donoghue, Michael J.
Yale University	Physics/ Astronomy	Supermassive Black Holes at High Energy and High Redshift: Testing the AGN Unification Paradigm	Shanil Virani	Urry, Claudia M.