

**Grants from the March 15, 2010 Application Deadline
Alphabetical by Research Field**

Research Field	Name	Institution	Title
Anthropology	Lia Betti	University of Kent at Canterbury	Out of Africa and what happened next: The relative role of climate and demographic history in shaping the human pelvis and limbs.
Anthropology	Jennifer Cabotage	University of New Mexico	Learning to Forage in Infant Chimpanzees
Anthropology	Stephen Chester	Yale University	The Ancestral Euarchontan and the Origin of Primates
Anthropology	Zuzana Faltyskova	Cambridge University	Genetics of Patagonian Aborigines and the origin of Native Americans
Anthropology	Alejandro Figueroa	University of South Florida	Systematic Analysis of the Impacts of Modern Development on Archaeological Sites in Roatán Island, Honduras
Anthropology	Michael Fisher	University of Chicago	Discovering the Origins of Social Complexity in the Late Chalcolithic 1 Period of Upper Mesopotamia at Tell Zeidan, Syria
Anthropology	Wenfeng Gong	Duke University	Febrile Pathogen Surveillance and Discovery Study in Sri Lanka
Anthropology	Nicholas Kessler	University of Kansas	Do carbon isotope ratios in archaeological common bean coherently record past growing conditions?
Anthropology	Cynthia Kwok	University of Calgary	Moving Beyond Childhood: Dietary Life-Histories of Bronze Age and Byzantine Greeks using Stable Isotope Analysis of Human Bone and Teeth
Anthropology	Sophie Makarov	Université de Montréal	Development of traits linked to bipedality in the Australopithecus afarensis knee
Anthropology	Krisztina Mosdossy	University of Guelph	Micronutrient content in fruits consumed by white-faced capuchin monkeys (<i>Cebus capucinus</i>)
Anthropology	Elena Portacolone	University of California-San Francisco	THE MYTH OF INDEPENDENCE AMONG OLDER ADULTS LIVING ALONE IN SAN FRANCISCO
Anthropology	Jennifer Weber	Georgia State University	An investigation of ancient Maya travelling routes in the Belize Valley: Predictive Spatial Analysis at Pacbitun
Behavioral Ecology	Andrea Acevedo	Oklahoma State University	Mate choice strategies in collared lizards: sexual selection in toddlers
Behavioral Ecology	Julia Badescu	University of Calgary	The effect of female relatedness on allomothering in ursine colobus monkeys (<i>Colobus vellerosus</i>)
Behavioral Ecology	Jessica Barker	Cornell University	Cooperation, competition and policing in human societies
Behavioral Ecology	Alexandra Bentz	Appalachian State University	Maternal effects of tree swallows (<i>Tachycineta bicolor</i>) on offspring fitness
Behavioral Ecology	Emerson Bowers	Illinois State University	Variation in hatching synchrony and sex allocation within broods of house wrens (<i>Troglodytes aedon</i>)

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Behavioral Ecology	Katy Califf	Michigan State University	Major histocompatibility complex variation and mate choice in a free living carnivore, the spotted hyena (<i>Crocuta crocuta</i>)
Behavioral Ecology	Nathan Dappen	University of Miami	Intralocus sexual conflict and male-typical color expression in female Ibiza wall lizards, <i>Podarcis pityuensis</i>
Behavioral Ecology	Eva Fischer	Colorado State University	ARE NEURAL BASES OF GENETIC AND PLASTIC VARIATION IN COMPLEX BEHAVIORS SHARED OR DISTINCT?
Behavioral Ecology	Morgan Gilmour	Bucknell University	Wintering ecology, individual quality, and reproductive effort in a migratory seabird
Behavioral Ecology	Adrea Gonzalez-Karlsson	University of California-Los Angeles	Sexual Selection and Chemical Communication in Ithomiine Butterflies
Behavioral Ecology	Holly Holt	Pennsylvania State University	Chemical Regulation of Molecular and Social Immunity in Worker Honey Bees (<i>Apis mellifera</i>)
Behavioral Ecology	Anne Jacobs	University of California-Riverside	What Do Females Really Want? Immunity and Mate Choice in Western Bluebirds
Behavioral Ecology	Janice Kelly	Texas Tech University	Post-breeding public information and its effect on a ground-nesting avian community
Behavioral Ecology	Erin McCullough	University of Montana	Costs of flying with elaborate horns in a rhinoceros beetle
Behavioral Ecology	Andrew Melie	University of Nebraska at Lincoln	Predation Experience and Female Mate Choice in Green Swordtails
Behavioral Ecology	Loren Merrill	University of California-Santa Barbara	Do males trade-off investment in immunity against secondary sexual signals, and if so, do they suffer greater rates of parasitism? A thorough investigation of the Immunocompetence Handicap Hypothesis using Red-winged Blackbirds (<i>Agelaius phoeniceus</i>)
Behavioral Ecology	Richard Milner	Australian National University	CHOOSING YOUR ENEMIES BASED ON THEIR FRIENDS
Behavioral Ecology	Michael Sitvarin	Miami University Ohio	Evaluating the response of a predator to multiple intraguild predators
Behavioral Ecology	Boopathy Sivaraman	University of Alabama at Tuscaloosa	Neural mechanisms of territorial aggression in the convict cichlid (<i>Amatitlania nigrofasciata</i>)
Behavioral Ecology	Michelle Sparks	Trinity University	Ectoparasite Load in Lizards: Effects of Habitat Use and Behavior
Behavioral Ecology	Kimberly VanderWaal	University of California-Davis	Impacts of association patterns on bacterial transmission in giraffes

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Behavioral Ecology	Joseph Waddell	University of Central Florida	Sexual signaling energetics and life history trade-offs in <i>Brachyhypopomus</i> , a genus of Neotropical electric fishes.
Behavioral Ecology	Kara-Anne Ward	University of Windsor	Female mate search tactics in long-tailed manakins (<i>Chiroxiphia linearis</i>)
Behavioral Ecology	Tina Wey	University of California-Los Angeles	Does social conflict reduce female reproductive success in degus?
Behavioral Ecology	Lauren Wilmoth	University of Tennessee-Knoxville	A Defensive Benefit of Aggregative Feeding in Early Instar Pipevine Swallowtail, <i>Battus philenor</i>
Behavioral Ecology	Mallory Wilson	Sam Houston State University	Fitness Costs to Females in a Coercive Mating System: Bacterial Susceptibility and Immunity
Behavioral Ecology	Ellen Wisner	Syracuse University	The effects of anthropogenic noise on communication and mate choice in Eastern bluebirds
Cell Biology/Biochemistry	Christopher Antico	University of Alabama at Tuscaloosa	Using Quantitative Real-Time PCR to characterize chitin-response-protein 1 in <i>Arabidopsis thaliana</i>
Cell Biology/Biochemistry	Andrew Burke	Wake Forest University School of Medicine	Nanoparticle-mediated Thermal Therapy for Breast Cancer
Cell Biology/Biochemistry	Michele Burnham	University of Georgia	Analysis of <i>Fusarium verticillioides</i> genes associated with the production of spores.
Cell Biology/Biochemistry	Catharine Clark	University of Missouri	The Role of Brain Derived Neurotrophic Factor (BDNF) in Chronic Hypertension
Cell Biology/Biochemistry	Alex Deal	Davidson College	Does a neuron's ability to produce an action potential affect its dendritic growth in vitro?
Cell Biology/Biochemistry	Brigitte DeLashmette	Brigham Young University-Provo	Macrophages Expedite Tumor Proliferation and Metastasis
Cell Biology/Biochemistry	William Donelan	University of Florida	Regulation of human HNF1 α in pancreatic beta cells
Cell Biology/Biochemistry	Bridget Donovan	Washington and Lee University	Local Induction of T-cell Homing Molecules to Improve Cancer Immune Therapy
Cell Biology/Biochemistry	Tyler Drake	Lehigh University	Modeling Polarized Growth in Fission Yeast
Cell Biology/Biochemistry	Eric Exner	University of Wisconsin-Oshkosh	Ground Squirrel Cone Shedding Halts During Torpor but Resumes During Interbout Arousal
Cell Biology/Biochemistry	James Ferrell	Kent State University	The Effect of Spark-Based Nonthermal Plasma on Contaminated In-Vitro Constructed Human Skin Equivalents
Cell Biology/Biochemistry	Patrick Hamoy	Viterbo University	Effects of 670 nm Photoirradiation on Paraquat-Induced Oxidative Stress in <i>Drosophila Melanogaster</i>

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Cell Biology/Biochemistry	Leigh Harden	University of North Carolina at Wilmington	Seasonal variation in blood biochemistry of diamondback terrapins (<i>Malaclemys terrapin</i>) in southeastern North Carolina
Cell Biology/Biochemistry	Dare Imes	East Carolina University	The Pre-Metastatic Niche: An Inflammation Response?
Cell Biology/Biochemistry	Taniya Kaur	New York University	Understanding the regulation of the recombination rate domain structure of the <i>C.elegans</i> chromosome.
Cell Biology/Biochemistry	Michael Kears	Lehigh University	Exploring Roles of Paralogous Genes in <i>Drosophila melanogaster</i> : In Vivo Knockdown of the L22e Ribosomal Protein Family in the Male Germline.
Cell Biology/Biochemistry	Austin Mattox	Duke University	The Role of the Novel Oncogene OTX2 in Retinoblastoma
Cell Biology/Biochemistry	Kyle Nelson	Appalachian State University	Identification of Gene Regulatory Element Associated with the Meis Family of Homeobox Genes
Cell Biology/Biochemistry	Tyler Schroeder	University of Wisconsin-Madison	Does mutant Kir 7.1 channel render a dominant negative function in Snowflake Vitreoretinal Degeneration (SVD)?
Cell Biology/Biochemistry	Changxia Shao	Texas Tech University	Gene expression profiling: p53 signaling pathway dependent anticancer effects of Leptomycin B on human lung cancer
Cell Biology/Biochemistry	Vikram Shende	Texas A&M University	Investigating the role of microRNAs in coordination of mammalian circadian rhythms.
Cell Biology/Biochemistry	Samson Smith	Portland State University	Reactive Oxygen Species: Implications for Somatic Nuclear Mutation Rates and Aging
Cell Biology/Biochemistry	Daryl Taketa	University of California-Santa Barbara	Cdk5/p35 Versus Cdk5/Cyclin I: Analysis of Substrate Specificity
Cell Biology/Biochemistry	Amanda Zirzow	George Mason University	Bioengineering of nanoscale DNA/albumin baskets for delivery of siRNA
Chemistry	Navid Asbaghi	Ball State University	Phytoremediation of explosives-contaminated soils.
Chemistry	Pratik Chhetri	Central Michigan University	To synthesize a biocompatible polymer containing platinum(IV) based anti-tumor agents attached as pendants units.
Chemistry	Emily Maung	University of Delaware	Development and use of a novel method to detect bioaccumulation of endocrine disrupting compounds in <i>Limulus polyphemus</i> tissues
Chemistry	Matthew Morantz	McGill University	Electronic Characterization of Novel Anthracenedicarboximides for use as Air-stable N-Channel Semiconductors
Chemistry	Maria Zawadowicz	Lake Forest College	Method development for nonequilibrium sampling of trace VOCs in ambient air using solid-phase microextraction and GC/MS

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Computer Science/Mathematics	Canan Gunes	Carnegie Mellon University	Reducing parameter uncertainty in large-scale stochastic simulations with correlated inputs
Conservation Biology	Maria Barbosa de Oliveira Pil	University of Missouri-St. Louis	Comparative phylogeography of mangrove tree species in Brazil: conservation implications
Conservation Biology	Bradley Carlson	Pennsylvania State University	POOL COMMUNITIES IN ABANDONED MINE LANDS: LARVAL AMPHIBIANS, PREDATORS, AND PARASITES
Conservation Biology	Timothy Ciarlo	Pennsylvania State University	Systemic pesticides (neonicotinoids and chlorothalonil) as causative factors of Colony Collapse Disorder in honey bees.
Conservation Biology	Laura Eierman	Cornell University	Effects of Habitat Heterogeneity on Survival and Genetic Differentiation in the Eastern Oyster (<i>Crassostrea virginica</i>)
Conservation Biology	Stephanie Garvis	University of Central Florida	Synergistic effects of oyster mat restoration on shoal grass (<i>Halodule wrightii</i>) recruitment and establishment in the Indian River Lagoon
Conservation Biology	Alona Gukasova	Saint Petersburg State University	Applying of a new system of summer bat inventory on the territory of Nature reserves of Ukraine
Conservation Biology	Brittney Hopkins	Virginia Polytechnic Institute and State University	The physiological effects of maternal and dietary mercury in snapping turtles
Conservation Biology	Luis Juarez Casillas	Universidad Nacional Autonoma de Mexico	GENETIC DIVERSITY AND GEN FLOW BETWEEN THE MEXICAN POPULATION OF BLACK BEAR (<i>Ursus americanus</i>)
Conservation Biology	Tiffany Kosch	East Carolina University	Evaluation of the Population Genetic structure of <i>Batrachochytrium dendrobatidis</i> in Peru
Conservation Biology	Hila Levy	University of Oxford	Inferring Population Trends of Gentoo Penguins (<i>Pygoscelis papua</i>) in the South Atlantic
Conservation Biology	Pei-Luen Lu	University of Hawaii at Manoa	Conservation genetics of the endangered endemic Hawaiian plant species <i>Pleomele hawaiiensis</i>
Conservation Biology	Katherine Rollins	Illinois State University	Cause of Bat Mortality at Wind Farms: Barotrauma vs. Collision
Conservation Biology	Yosuke Sakamachi	Appalachian State University	Evaluation of toxic elements released from the Tennessee Valley Authority coal fly ash spill on aquatic life and ecosystem health
Conservation Biology	Tyler Sanders	Missouri State University	Physiological Plasticity of Ectotherms in a Changing Environment
Conservation Biology	Christian Torres Santana	University of Hawaii at Manoa	Pollination Ecology and Breeding Systems of the Endangered <i>Kadua coriacea</i> (Rubiaceae)

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Conservation Biology	Benjamin Wainwright	University of Hawaii at Manoa	Indonesian Gene Flow and Implications for Potential Marine Conservation Strategies.
Conservation Biology	Virginia Winder	University of North Carolina at Wilmington	Mercury (Hg) levels in feathers and blood of two species of coastal sparrows (<i>Ammodramus nelsoni</i> and <i>A. caudacutus</i>) from over-wintering and breeding sites (salt marshes along the North Carolina coast and habitat in northern U.S. and Canada, respectively).
Ecology	Melissa Aikens	University of Virginia	Ecological and Evolutionary Limits to the Distribution of a High-Elevation Southern Appalachian Endemic
Ecology	Athena Anderson	University of Georgia	Bumble Bee Foraging Ecology
Ecology	Thomas Barnum	University of Georgia	Consequences of Algal-Grazing Tadpoles Infected with <i>Batrachochytrium dendrobatidis</i> on Tropical Stream Algal Communities
Ecology	Kylla Benes	Northeastern University	Associations Between Genetic Diversity and Species Diversity
Ecology	Benjamin Blonder	University of Arizona	Does leaf venation control plant function?
Ecology	Steven Brady	Yale University	The influence of runoff on wetland amphibians
Ecology	Kathleen Bridges	University of Georgia	Effects of increased soil temperatures on mycorrhizal symbiosis
Ecology	Nathan Brouwer	University of Pittsburgh	Why do parasites decrease the long-term survival of their hosts? Testing a seasonality hypothesis
Ecology	Karen Brun	University of Florida	Coral Reefs Post <i>Acanthaster planci</i> Outbreak: does mutualism dictate coral survival?
Ecology	Nicola Bryson	University of Kent at Canterbury	Primate Community Edge Response in Kibale National Park, Uganda.
Ecology	Kristen Byler	University of Mississippi	Coral's Maternal Gift: What symbionts do brooding larvae receive?
Ecology	Timothy Caughlin	University of Florida	Seeds move but trees stand still: spatial population dynamics of a long-lived tree species at the Huai Kha Khaeng Wildlife Sanctuary, Thailand
Ecology	Zacharia Costa	Virginia Commonwealth University	Tadpole functional roles: Resource use, indirect effects and responses to predation threats
Ecology	Timothy Davidson	Portland State University	Contrasting effects of non-native and native wood-boring crustaceans on the productivity and integrity of Panamanian mangroves
Ecology	Katherine Dosch	University of Colorado at Boulder	Diversity and disease: how do changes in pathogen communities influence disease risk for amphibians?

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Ecology	Margaret Douglas	Pennsylvania State University	Testing the Enemy Release Hypothesis with native and invasive slugs
Ecology	Emily Field	Florida State University	Disturbance or resource pulse?: Examining the interactive effects of wrack on <i>Spartina alterniflora</i> and associated species
Ecology	David Gonthier	University of Toledo	Impacts of coffee genetic variation on the population dynamics of predator and prey of a tropical insect food web
Ecology	Ian Grettenberger	Pennsylvania State University	Exploiting genotypic diversity for sustainable insect pest management
Ecology	Justin Havird	Auburn University	Quantifying ecological disturbance in the Hawaiian anchialine ecosystem due to invasive fishes
Ecology	Christine Holdredge	University of Florida	Does Spanish moss drive canopy arthropod diversity patterns across the southeastern U.S.?
Ecology	Glen Hood	University of Notre Dame	Cascading host race formation across a guild of sympatric parasitoid wasps
Ecology	Jessica Hua	University of Pittsburgh	Mixing it up: The role insecticide mixtures in aquatic wetlands
Ecology	Emily Johnston	Michigan State University	Characterizing resistance and tolerance in three passerine birds in response to two zoonotic pathogens: <i>Borrelia burgdorferi</i> and West Nile virus
Ecology	Camila Kass	Universidad Nacional de La Plata	Incubatory inquilinism in Squamata (Reptilia) from the center-east of Buenos Aires province, Argentina.
Ecology	La Toya Kissoon	North Dakota State University	VARIATION IN AQUATIC PLANT COMMUNITIES IN SHALLOW LAKES: RELATIONSHIPS TO LAKE ECOLOGY AND BIOGEOCHEMISTRY
Ecology	Andrew Kleinhesselink	Sonoma State University	Population and Community Consequences of Facilitation Across a Dune Stress Gradient
Ecology	Kevin Kohl	University of Utah	Investigating the role of intestinal microbes in the metabolism of plant toxins
Ecology	Serenella Linares	University of Maryland, College Park	FUNGAL TRANSPORT IN THE SAHARAN DUST STORMS: A JOURNEY FROM AFRICA TO THE AMERICAS
Ecology	Ari Martinez	University of Florida	The role of variation in foraging ecology on the organization of Amazonian mixed species flocks
Ecology	George Meindl	University of Pittsburgh	Assessing the potential for cascading effects of soil heavy metals: plants and pollinators
Ecology	Marvin Morales Jacinto	University of Florida	Do austral migratory birds expand their range in the Amazon wintering habitats?

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Ecology	Jeffrey Muehlbauer	University of North Carolina at Chapel Hill	Stream Signatures: Developing a method for understanding the spatial importance of river subsidies to floodplain foodwebs
Ecology	Jocelyn Olney	University of Nebraska at Lincoln	Do tree species in mixed Dipterocarp forests show preferential uptake of different forms of Nitrogen?
Ecology	Katherine Papacostas	Temple University	Tritrophic Interactions Impacting Biotic Resistance to Marine Epifaunal Invasions
Ecology	Darren Parris	Georgia Southern University	Using PCR Techniques to Examine Phytoplankton Community Response to Changes in Inorganic Nutrients
Ecology	Alexis Pasulka	Scripps Institution of Oceanography	The role of heterotrophic protists in methane-seep ecosystems
Ecology	Luanna Prevost	University of Georgia	Habitat fragmentation effects on plant biodiversity and microclimate in tropical premontane forest
Ecology	Andrew Rayburn	Utah State University	Does facilitation by moss significantly affect performance and fecundity of a threatened endemic primrose?
Ecology	Brooke Reeve	SUNY College of Environmental Science and Forestry	Scaling stress from the lab to the landscape: Do stressors predict the impact of disease on wild populations?
Ecology	Pamela Reynolds	University of North Carolina at Chapel Hill	Cascading effects of predator diversity on oyster reefs: the role of behavior
Ecology	Sara Schloth	University of Massachusetts Lowell	The role of soil organic matter, nutrients, and the diversity of the microbial community on the performance of microbial fuel cells (MFCs)
Ecology	Elizabeth Schultheis	Michigan State University	The role of plant-soil feedbacks in the biological invasion of <i>Acer platanoides</i> , and implications for native forests
Ecology	Moira Sombra	University of Illinois at Chicago	Food and Safety Trade offs in the Socially Complex <i>Dolichotis patagonum</i> .
Ecology	Robert Stanton	University of Nebraska at Omaha	Nutrient Cycling and Microhabitat Creation by Burying Beetles (Silphidae: <i>Nicrophorus</i>) of the Great Plains
Ecology	Anna Stewart	SUNY College of Environmental Science and Forestry	Dengue fever dynamics as a function of climate in Ecuador
Ecology	Stephanie Stuart	University of California-Berkeley	Adaptation and niche conservatism of functional traits in Australian rainforests
Ecology	Rory Telemeco	Iowa State University	How did viviparity evolve in squamate reptiles? An experimental test of the maternal-manipulation hypothesis.

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Ecology	Margaret Van Gulder	Central Michigan University	Changes in Double-crested Cormorant (<i>Phalacrocorax auritus</i>) reproductive success and chick bioenergetics after the invasion of the Round Goby (<i>Neogobius melanostomus</i>)
Ecology	Hannah Vander Zanden	University of Florida	Ecology of individuals: Loggerhead dietary specialization
Ecology	Katie Vazquez	University of Pennsylvania	Hidden diversity among the Western Atlantic ecotypes of the dog whelk, <i>Nucella lapillus</i> (Neogastropoda: Muricidae): examination of a chromosomal polymorphism across wave exposure gradients
Ecology	Martine Wagstaff	University of Massachusetts Boston	The response of invasive species to novel habitats in the Gulf of Maine
Ecology	Marjorie Weber	Cornell University	Do plants that offer both food and housing rewards receive more protection from arthropod mutualists?
Ecology	Alyssa Whu	Miami University Ohio	Boundary Dynamics: effects on ecosystem services
Ecology	Carrie Woods	Clemson University	Physiological and morphological traits of epiphytes along a rainfall gradient, Panama
Ecology	Lijin Zeng	University of California-Riverside	Cooperative Breeding in Kalij Pheasant (<i>Lophura leucomelanos</i>): Basic Ecology and the Role of Habitat Saturation
Ecology	Monica Zimmerman	Florida Institute of Technology	Testing Pre-Columbian human impacts on western Amazonian forests
Engineering	Reuben Dodson	University of Colorado at Boulder	Systemic arterial biochemical and biomechanical changes in an animal model of hypertensive diseases in pregnancy
Engineering	Chia-Pin Liang	University of Maryland, College Park	Shot Noise in Laser Speckle Contrast Imaging
Engineering	Brina Mortensen	University of California-Davis	Sustainable Building Materials Utilizing Microbial Induced Calcite Precipitation
Engineering	G. Tatiana Sales	University of Illinois at Urbana-Champaign	Environmental Conditions and Microbial Population in Laying Hens Facilities
Engineering	Junbo Wu	Stanford University	Investigation of Alternative Transparent Conductors for Organic Optoelectronic Devices
Hydrology/Geomorphology	William Honsaker	University of Cincinnati	Glacier fluctuations in East Greenland during the Little Ice Age: Patterns and causes
Hydrology/Geomorphology	Andrew Kowler	University of Arizona	Paleolake-level fluctuations in closed basins of the Southwest USA during the latest Pleistocene: understanding evolution of the modern climate system

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Hydrology/Geomorphology	Daniel Murray	University of Wisconsin-Madison	Late-Glacial to Early Holocene Glacial History and Regional Climate Reconstruction: 50-51°S, Southern Patagonia, Argentina
Hydrology/Geomorphology	Peter Schillig	University of Kansas	Hydrogeologic Controls on Bioactive Zone Development
Paleontology/Sedimentation	Matt Jarrett	University of South Florida	The Lilliput Effect: Evolution During a Crisis
Paleontology/Sedimentation	Nathan Jud	University of Maryland, College Park	Quantifying the diversity-abundance relationship among early angiosperms in Western North America
Paleontology/Sedimentation	Tristan Kloss	University of Wisconsin-Milwaukee	The paleoenvironmental context of middle Cambrian shales: comparisons between ichnofabrics and geochemistry
Paleontology/Sedimentation	Benjamin Linzmeier	University of Wisconsin-Madison	Seasonality of Epicontinental Seas recorded in Epithecal Banding of Paleozoic Rugose Coral
Paleontology/Sedimentation	Cameron Morissette	Salem State College	Late Holocene regional climate variability as recorded by annually laminated sediments, Maine
Paleontology/Sedimentation	Haley O'Brien	Ohio University	Ampullariidae: A Gastropod Model of Mesozoic and Cenozoic Macroevolutionary Patterns in the East African Rift Valley
Paleontology/Sedimentation	Carrie Tyler	Virginia Polytechnic Institute and State University	A Test of the Validity of Repair Scars as a Proxy for Predation Intensity
Petrology/Geochemistry	Hannah Aird	Duke University	A study of the accessory mineral assemblages in the Stillwater Complex, Montana, USA.
Petrology/Geochemistry	Kyle Colburn	University of Wisconsin-Oshkosh	How does the mantle beneath the Ring of Fire change through time?: a trace element study of primitive basalts erupted in a small area in the Southern Cascades
Petrology/Geochemistry	George Daly	Miami University Ohio	The most recent magmatic eruption on Dominica, Lesser Antilles: A petrographic, geochemical and isotopic investigation of the Morne Patates eruption
Petrology/Geochemistry	Sarah Evans	University of Kansas	Tectonic evolution of a Tethyan rift margin and ocean-continent transition in the Eastern Alps: an integrated magnetite and zircon (U-Th)/He thermochronometric approach
Petrology/Geochemistry	Dawn Hayes	Utah State University	Evidence for a mid-Neoproterozoic eutrophication event in the Uinta Mountain Group?
Petrology/Geochemistry	Lindsay MacKenzie	University of Montana	Geochemistry and sedimentology of the Chengjiang fossil fauna

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Petrology/Geochemistry	Aaron Mayfield	Central Washington University	Documenting magma evolution of the Fossa delle Felci (Salina Island, Southern Tyrrhenian Sea) volcanic sequence through integration of quantitative modeling and in situ chemical analysis
Petrology/Geochemistry	Ruifang Xie	Texas A&M University-College Station	Implication of ITCZ Movement from Last Deglacial Dust Provenance Changes in the Eastern Equatorial Pacific
Physics/Astronomy	David Brotman	Fairfield University	Regional Measurements of Left Ventricular Rotation Using Slice Following Harmonic Phase (SF-HARP) Imaging
Physics/Astronomy	Steve Carabello	Drexel University	A study of the superconducting energy gaps of magnesium diboride
Physics/Astronomy	Kristen Erickson	University of Missouri-St. Louis	Star formation in the Serpens Molecular Cloud
Physics/Astronomy	Katherine Leaveck	Tarleton State University	Automated Classification of Light Curves of Eclipsing Binary Stars Using Fourier Descriptors and Artificial Neural Networks
Physics/Astronomy	JoEllen McBride	University of North Carolina at Chapel Hill	Building a Novel Deployable Integral-Field Spectrometer to Study AGN Outflows and Winds
Physics/Astronomy	Rachael Roettenbacher	Lehigh University	Observations and Models of Non-Radial Pulsations in Be Stars
Physics/Astronomy	Alexander Tokarev	Clemson University	X-ray imaging of dynamic wetting in microfluidics
Physiology/Functional Morphology	Thomas Baldwin	University of Georgia	Characterization of the Mechanisms behind Fumonisin Insensitivity in Maize
Physiology/Functional Morphology	Christine Bedore	Florida Atlantic University	Evolution of color vision in basal batoids
Physiology/Functional Morphology	Kayla Bieser	University of Alabama at Birmingham	Evaluation of DMRT1 as the male sex determining switch in reptiles with TSD.
Physiology/Functional Morphology	Alena Chin-Curtis	California State University-Chico	Potassium Chloride Induced Excitotoxicity in FVB and B6 Mice: Cyclosporine A is Neuroprotective
Physiology/Functional Morphology	Sandrine Clairardin	Illinois State University	Effects of Bisphenol-A on steroid metabolism during sex determination in the red-eared slider turtle
Physiology/Functional Morphology	Sara Conner	University of Louisiana at Lafayette	The histological development of Cabirops sp. from cryptoniscus larva to a functional male stage to a functional male stage.
Physiology/Functional Morphology	Nicholas Gidmark	Brown University	Muscle physiology as a limitation of jaw performance in cyprinid fish
Physiology/Functional Morphology	Ysabel Giraldo	Boston University	Neurodegeneration in worker and queen castes of the ant, <i>Solenopsis invicta</i>

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Physiology/Functional Morphology	Alison Golinski	Rutgers, The State University of New Jersey	Androgen sensitivity in the brain: implications for the evolutionary diversification of sex-limited behavior
Physiology/Functional Morphology	Kasie Groom	University of Hawaii at Manoa	Potential sites for arginine vasotocin modulation of sensory systems differ with phase in a sex changing teleost (<i>Thalassoma duperrey</i>).
Physiology/Functional Morphology	Merla Hubler	University of Illinois at Urbana-Champaign	Opossums Give Insight into Mammalian Limb Development
Physiology/Functional Morphology	Catherine Jarrett	Arizona State University	Characterization of vasodilation in avian arteries
Physiology/Functional Morphology	Mike Jorgensen	Ohio University	Muscle variation in the pelvic system across locomotor modes in frogs.
Physiology/Functional Morphology	Hsiao-Ling Lu	Texas A&M University-College Station	Vitellogenin receptor and short neuropeptide F receptor involved in reproduction of the imported fire ant (<i>Solenopsis invicta</i> Buren) queens
Physiology/Functional Morphology	Lillian McCormick	Eckerd College	Vision in the fast lane: Evaluating the effects of lateral asymmetry and polarization sensitivity on predatory efficiency in the squid <i>Lolliguncula brevis</i>
Physiology/Functional Morphology	Daria Monaenkova	Clemson University	Natural solution for cell probing
Physiology/Functional Morphology	Ben Spannuth	University of Colorado at Boulder	Identification of neural circuits regulating stress-induced activation of serotonergic systems nucleus during fear-potentiated startle
Physiology/Functional Morphology	Boriana Tchernookova	University of Illinois at Chicago	Modulation of signal processing in the retina.
Physiology/Functional Morphology	Lindsay Waldrop	University of California-Berkeley	Scanning electron microscopy of terrestrial hermit crab antennules (<i>Coenobita</i> sp.)
Psychology	Eric Carpenter	North Carolina State University	Effect of Transfer with Younger and Older Adults on Control Solution Testing using Two Blood Glucometers
Psychology	Michelle Hsieh	University of Texas at Austin	The Relationship Between Behavioral and Physiological Sensitivity to Amplitude and Frequency Modulation
Psychology	Melinda Jensen	University of Illinois at Urbana-Champaign	Blind, Blinder, Blindest; Individual differences in visual awareness
Psychology	NaNa Keum	Columbia University	Contribution of Sugar and Fat Containing "Snacks" to Total Caloric Intake and the Development of Obesity in Rats
Psychology	Gretchen Knaack	George Mason University	The Effects of Chronic Unpredictable Stress on the Ability to Extinguish Fear: Zinc as a Mediator
Psychology	Stella Li	University of New South Wales	The neural circuitry underlying memory loss in rats.

**Grants from the March 15, 2010 Application Deadline
Alphabetical by Research Field**

Research Field	Name	Institution	Title
Psychology	Mark Mills	University of Nebraska at Lincoln	Cognitive Control of Eye Movements and Fixations: Object-Independent Viewing Strategies Influence Eye Movements during Real-World Scene Viewing
Psychology	Sabra Pelham	University of Florida	How bilingual is bilingual enough? Evaluating Lexical Access and Executive Function in Monolinguals, Intermediate Bilinguals, and Lifelong Bilinguals
Psychology	Elizabeth Rahn	University of Georgia	Cannabinoid CB2 Mediated Suppression of the Development of Paclitaxel-induced Neuropathy
Systematics/Evolutionary Biology	Kristen Brochu	University of Toronto at Scarborough	Phylogenetics of the Neotropical electric knifefish genus <i>Gymnotus</i> (Gymnotidae, Teleostei): biogeography and signal evolution of trans-Andean species
Systematics/Evolutionary Biology	Katherine Brooks	University of Chicago	Proximate mechanisms for the evolution of sociality in ground squirrels
Systematics/Evolutionary Biology	Emily Copeland	University of Central Florida	Life history response to infection and the potential for dishonest signals.
Systematics/Evolutionary Biology	Emily Daniels	University of California-Irvine	The Flying Rainbow: Geographical Variation in Seasonal Butterfly Wing Colors.
Systematics/Evolutionary Biology	Ryan Felice	Ohio University	New Turtle Fauna from the Cretaceous of Tanzania
Systematics/Evolutionary Biology	Kayla Hardwick	University of Idaho	Behavioral Mechanisms of Reproductive Isolation in Ecologically Distinct Populations of Desert Lizards.
Systematics/Evolutionary Biology	Christy Hipsley	University of California-Santa Cruz	Evolutionary consequences of Cenozoic climate change on African reptile diversification
Systematics/Evolutionary Biology	Lara Jarvis	University of North Carolina at Wilmington	Narrowing the window of reproductive isolation between hybridizing blue mussels
Systematics/Evolutionary Biology	David Kikuchi	University of North Carolina at Chapel Hill	THE EVOLUTION OF IMPERFECT MIMICRY
Systematics/Evolutionary Biology	Morgan Kilgour	Texas A&M University-Corpus Christi	Galatheoids of the Gulf of Mexico: reproduction, connectivity and distribution
Systematics/Evolutionary Biology	Elaine Klein	San Diego State University	Estimating Skink Phylogeography to Test Hypotheses of Dispersal in the Pacific
Systematics/Evolutionary Biology	Christopher Laumer	Harvard University	New and Known Prorhynchidae (Platyhelminthes: "Turbellaria") from the State of Virginia
Systematics/Evolutionary Biology	Megan Manes	Iowa State University	Multiple paternity, hormonal regulation of fertility, and the evolution of life histories
Systematics/Evolutionary Biology	Shannon McDermott	Duke University	Mapping Variation in Strength of Meiotic Drive

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Systematics/Evolutionary Biology	Elena Ortiz	University of Florida	Molecular systematics of the butterfly tribe Preponini (Nymphalidae: Charaxinae)
Systematics/Evolutionary Biology	Jorge Pino	University of Florida	Thermoregulation constraints in Mesoamerican montane rodents
Systematics/Evolutionary Biology	Benjamin Shepard	Mississippi State University	Morphological consistency of the Horned Lizards (Phrynosoma) using Geometric Morphometric Analysis
Systematics/Evolutionary Biology	Julio Soto-Centeno	University of Florida	A multi-locus approach to estimating inter-island genetic diversity, migration, and population structure in an endemic West Indian bat
Systematics/Evolutionary Biology	Holly Swift	University of California-Merced	Rapid adaptive radiation of two species of copepods in a marine peripheral environment
Systematics/Evolutionary Biology	Frank Tulenko	Wesleyan University	A Lineage Analysis of Somitic and Lateral Mesoderm in Lamprey: Implications for the Origin of Paired Appendages
Systematics/Evolutionary Biology	Elizabeth Wade	University of Connecticut	Microsatellite identification to assess reproductive isolation vs. genetic divergence in the New Zealand cicada genus Kikihia Dugdale 1971 (Hemiptera:Cicadidae)
Systematics/Evolutionary Biology	Mary Wright	University of California-Berkeley	A phylogenetic study of the role of sit-and-wait predation in the evolution of monogamy in the Lysiosquilloidea, a clade of mantis shrimps
Tectonics/Geophysics	Tina Colbert	Georgia Institute of Technology	Post-Orogenic Landscape Evolution in the Southern Appalachians
Tectonics/Geophysics	Ryan Lindsay	Baylor University	Correlating earthquakes with faults, Tahoe Basin area of California and Nevada
Tectonics/Geophysics	Keith Ma	Yale University	Constraining the strength of a glacial buzzsaw in the Patagonian Andes
Tectonics/Geophysics	Erin Stoesz	University of Wisconsin-Madison	Structural Controls on Fault Zone Velocity Signatures at Meter-Centimeter Length Scales