

Grants from the March 15, 2007 Deadline
 Alphabetical by Subject

Field	Student	Institution	Title	Mentor
Anthropology	Ken Batai	University of Illinois at Chicago	Is the mitochondrial haplogroup B a thrifty genotype?	Sloan Williams
Anthropology	Mackenzie Bergstrom	University of Calgary	Dominance in white-faced capuchins (<i>Cebus capucinus</i>): Assessment of hierarchical linearity, strength, and dominance style.	Linda Fedigan
Anthropology	Marina Blanco	University of Massachusetts Amherst	Survey of nocturnal lemurs (<i>Cheirogaleus spp.</i>) in the continuous and fragmented forests of Tsinjoarivo, eastern Madagascar.	Laurie Godfrey
Anthropology	Daniel Burland	University of Massachusetts Amherst	"I wasn't even anywhere": Militarism, Activism, and Veteran-ism	Krista Harper
Anthropology	Jeffrey Du Vernay	University of South Florida	Investigating Culture Change among Late Prehistoric Indians in the Apalachicola River Valley of Northwest Florida: The Place of Lamar Ceramics in the Fort Walton Sequence	Nancy White
Anthropology	Krista Garcia	University of Alabama at Tuscaloosa	Changing Maya Economic Practices: Ceramic Production and Standardization during the Late Classic at Chan, Belize	Cynthia Robin
Anthropology	Nicole Griffin	George Washington University	Hominid Forefoot Kinematics, Kinetics, and Trabecular Bone Architecture	Brian Richmond
Anthropology	James Hurlburt	University of Georgia	An Ecology of Pain: Early Adverse Experiences, Cultural Meanings and the Development of Chronic Pain	Bram Tucker
Anthropology	Theresa Hyland	University of Massachusetts Amherst	The Green Fields of (Post-Colonial) Ireland: Language, Immigration, and the 'Celtic Tiger'.	Krista Harper

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Anthropology	Edward Jolie	University of New Mexico	Learning Networks and Social Diversity in the Chaco System, A.D. 850–1140: An Analysis of Basketry Technology	Wirt Wills
Anthropology	Tiziana Matarazzo	University of Connecticut	Micromorphological Identification of Human Activity areas at the Italian Early Bronze Age site, T.A.V. Afragola	Natalie Munro
Anthropology	Michael O'Mara	Arizona State University	The influence of habitat quality, feeding competition and stress on the development of sex differences in the feeding ecology of ring-tailed lemurs (<i>Lemur catta</i>)	Leanne Nash
Anthropology	Roberta Salmi	State University of New York at Stony Brook	Description and Function of Close Calls in Western Gorillas (<i>Gorilla gorilla</i>), Republic of Congo	Diane Doran Sheehy
Anthropology	Sargent Shriver	University of Alaska Fairbanks	Cross-cultural work on moral judgments: Moral intuitions of the Nunamuit Eskimo	Marc Hauser
Anthropology	Lindsey Smith	The Graduate Center, The City University of New York	Gestural Communication in the African Apes	Roberto Delgado
Anthropology	Carrie Veilleux	University of Texas at Austin	Ecological Correlates of Selection on the S-Opsin Gene in Primates: Implications for the Evolution of Color Vision	Edward Kirk
Anthropology	James Veteto	University of Georgia	Cultural versus Utilitarian Saliency in the Persistence of Folk Crop Varieties in an Immigrant Southern Appalachian population of Yecora, Mexico	Robert Rhoades

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Anthropology	Margarite Whitten	University of Massachusetts Amherst	Reformed Women: Reproductive Policy in Post-Regime Portugal and the Abortion Debate	Krista Harper
Anthropology	Jennifer Zovar	Vanderbilt University	Community and Identity in the Andean Late Prehispanic Period: Ceramic Analysis at the Pukara de Khonkho, Bolivia	John Janusek
Behavioral Ecology	Evan Ball	Drake University	Effects of sub chronic, pharmacological administration of genistein on spatial learning and memory in rats	Craige Wrenn
Behavioral Ecology	Alison Behie	University of Calgary	The interaction of Nutrition, Stress levels and Parasite Load in Determining Black Howler Monkey Population Density in Monkey River, Belize	Mary Pavelka
Behavioral Ecology	Ashley Bowers	University of Nebraska at Lincoln	Effects of Ultraviolet-B Radiation on Platyfish, <i>Xiphophorus maculatus</i> Fitness	Alexandra Basolo
Behavioral Ecology	Sarah Carnegie	University of Calgary	Reproductive strategies in white-faced capuchins: ovarian cycles, seasonality and concealed ovulation	Linda Fedigan
Behavioral Ecology	Sharon Coe	University of California-Riverside	Investment in incubation by female songbirds: does male behavior compensate for the effects of ambient temperature?	John Rotenberry
Behavioral Ecology	Aron Costello	Miami University Ohio	Effect of Female Social Status on Male Preference and Reproductive Success	Douglas Meikle

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Behavioral Ecology	Kristen Covino	University of Maine, Orono	The Influence of Energetic Condition on Directional Decisions of Nocturnal Migrant Songbirds	Rebessa Holberton
Behavioral Ecology	Jessica Cuthbert	University of Windsor	Ornamentation and mutual sexual selection in a Neotropical passerine bird	Stephanie Doucet
Behavioral Ecology	Natalie Doerr	University of California-Santa Barbara	Do male great bowerbirds, <i>Chlamydera nuchalis</i> , minimize the costs associated with acquiring bower decorations by re-using decorations acquired in previous breeding seasons?	John Endler
Behavioral Ecology	Quinn Emmering	Texas Tech University	Do songbirds assess nest-predation risk using auditory cues of predators: an experimental manipulation of chipmunk vocalizations	Kenneth Schmidt
Behavioral Ecology	Amanda Izzo	University of Michigan-Ann Arbor	Hormonal Control of Chemical Communication in a Paper Wasp, <i>Polistes dominulus</i>	Elizabeth Tibbetts
Behavioral Ecology	Ashley Johnson	University of Illinois at Urbana-Champaign	Inbreeding avoidance in a natural population of the guppy <i>Peocilia reticulata</i>	Kimberly Hughes
Behavioral Ecology	Cassandra Martin	University of Nebraska at Lincoln	Association Costs in the Female Variable Field Cricket, <i>Gryllus lineaticeps</i>	William Wagner

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Behavioral Ecology	Emily McConnelly	Hope College	Hormonal and Environmental Differences Associated with Aggressive Nestbox Defense and Reproductive Success in the Eastern Bluebird (<i>Sialia sialis</i>)	Greg Fraley
Behavioral Ecology	Christopher Meehan	Villanova University	Parasitism of an ant-acacia mutualism by an herbivorous jumping spider.	Robert Curry
Behavioral Ecology	Bret Pasch	University of Florida	Songs, sex, and elevation: High altitude relaxation of sexual selection in singing mice songs?	Steven Phelps
Behavioral Ecology	Kimberly Pollard	University of California-Los Angeles	The evolution of group size and individual distinctiveness	Daniel Blumstein
Behavioral Ecology	Clare Rittschof	University of Florida	Does variation in local operational sex ratio affect male alternative reproductive tactics in the golden orb spider?	H.J. Brockmann
Behavioral Ecology	Jose Santos	University of California-Berkeley	Ecology of sociality in rodents: the role of food reevaluated	Eileen Lacey
Behavioral Ecology	Cybil Smith	Oklahoma State University	Mate guarding and territoriality in the North American skinks <i>Plestiodon obsoletus</i> , <i>Plestiodon obtusirostris</i> , and <i>Scincella lateralis</i>	Stanley Fox
Behavioral Ecology	Rachel Sprague	University of Montana	The Stress Physiology of Reproductive Decisions	Creagh Breuner
Cell Biology/Biochemistry	Lisa Ambrose-Lanci	Thomas Jefferson University	The influence of delta-opioid receptor function on anxiety in female rats during cocaine withdrawal	Elizabeth Van Bockstaele

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Cell Biology/Biochemistry	Alexandra Baluka	Eastern Illinois University	Evaluation of the Oxalate-Consuming Activities of Probiotic Microorganisms	Steven Daniel
Cell Biology/Biochemistry	Sydella Blatch	Arizona State University	Fruit Flies Lacking Dietary Folic Acid Grow Faster, So What About their DNA?	Jon Harrison
Cell Biology/Biochemistry	Brenda Czerwinski	Villanova University	Adaptive response of Japanese Quail (<i>Coturnix coturnix japonica</i>) to cold-acclimation: localization of avian UCP in skeletal muscle mitochondria	John Olson
Cell Biology/Biochemistry	Josephine Giles	Mount Holyoke College	Characterization of the Role of Dendritic Cells in Murine AIDS	Sharon Stranford
Cell Biology/Biochemistry	Christian Gutierrez	Miami University Ohio	Dissecting Transdifferentiation, the Key for Eye Tissue Repair and Regeneration	Katia Del Rio-Tsonis
Cell Biology/Biochemistry	Angela Hakenewerth	Saint Louis University	Development of light-induced dopamine signaling in mouse retina	Judith Ogilvie
Cell Biology/Biochemistry	Kelly Hogan	Pennsylvania State University	Identifying a role for TGF- β 1 in induction of the NF κ B pathway by ultraviolet radiation (UVR) in primary keratinocytes	Adam Glick
Cell Biology/Biochemistry	Elizabeth Lehman	University of Michigan-Ann Arbor	Risk factors for Hepatocellular Carcinoma in Egypt: A molecular and spatial approach	Mark Wilson
Cell Biology/Biochemistry	Andrew Lucas	Virginia Polytechnic Institute and State University	Studies on structural transitions-mediated circadian transcription factor function	Carla Finkielstein
Cell Biology/Biochemistry	Adam Miller	Appalachian State University	Differential Gene Expression Due to Photoperiodic Response in <i>Scytosiphon lomentaria</i>	Mary Connell

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Cell Biology/Biochemistry	Somshuvra Mukhopadhyay	New York Medical College	NO-mediated block of SNARE-disassembly in pulmonary arterial hypertension.	Pravinkumar Sehgal
Cell Biology/Biochemistry	Prajakta Palkar	University of Louisiana at Monroe	Proteomics study of new red blood cells (RBCs) from primed rats which are resistant to 2-butoxyethanol (BE)-induced hemolysis by 2-dimensional gel electrophoresis followed by Mass Spectrometry.	Harihara Mehendale
Cell Biology/Biochemistry	Lisa Pang	Duke University	The microtubule-severing process and its role in neural development	Nina Sherwood
Cell Biology/Biochemistry	Karen Perry	Louisiana State University-Baton Rouge	Expression of stress-inducible proteins in early life stages of 2 bivalves following pesticide exposure	John Lynn
Cell Biology/Biochemistry	Julie Reeves	Central Missouri State University	Effect of bacterial cell density on virulence in a strain of <i>Listeria monocytogenes</i>	Anna Oller
Cell Biology/Biochemistry	Yingjia Shen	Miami University Ohio	Large Scale Confirmation of Plant Poly(A) Signals Compiled through Bioinformatic Approach	Qingshun Li
Cell Biology/Biochemistry	Daniel Wright	Rockhurst University	Nearest Neighbor Parameters for Inosine-Cytosine Pairs Located Within Watson-Crick Helices	Brent Znosko
Cell Biology/Biochemistry	Josiah Zayner	Appalachian State University	Regulation of <i>Vibrio cholerae</i> biofilm by NspS and MbaA	Ece Karatan
Cell Biology/Biochemistry	Joy Zhang	Stanford University	Phenotypic Analysis of Muscle Stem Cell Fate	Helen Blau
Chemistry	Zoe Davis	Scripps College	Investigation of Particulate Air Pollutants on the Schizosaccharomyces Pombe Cell Cycle	Kathleen Purvis-Roberts

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Chemistry	Andrew Hoover	University of Illinois at Urbana-Champaign	In vitro selection of deoxyribozymes with substrate-general RNA ligase activity	Scott Silverman
Chemistry	Debra Joseph	SUNY College of Environmental Science and Forestry	Ecotoxicological Exposure Assessment of Frogs to Endocrine Disruptors	John Hassett
Chemistry	Shengqian Ma	Miami University Ohio	Investigation of Hydrogen Adsorption in Porous Metal-Organic Frameworks with Heterometal Centers by Inelastic Neutron Scattering	Hongcai Zhou
Chemistry	Anne Ruminski	University of California-San Diego	Porous silicon photonic nanostructures containing pore diameter and surface chemistry gradients as microsensors for environmental toxicants and pollutants	Michael Sailor
Computer Science/Mathematics	Arun Mahendra	Tarleton State University	A behavior-based approach to piloting autonomous mobile robots	Mircea Agapie
Conservation Biology	Melissa Cuke	University of British Columbia	Effects of land use changes on the structure and functioning of tropical decomposer food webs	Diane Srivastava
Conservation Biology	Joselyd Garcia	University of Puerto Rico at Mayaguez	Genetic variation in <i>Acropora palmata</i> and <i>Acropora cervicornis</i> in Puerto Rico	Nikolaos Schizas
Conservation Biology	Jerry Guo	Yale University	Genetic diversity of a possibly endangered Malagasy gecko species, <i>Lygodactylus mirabilis</i>	Ylenia Chiari
Conservation Biology	Bobby Hsu	University of Hawaii at Hilo	Transfer of maternal antibodies in Hawaii 'amakihi	Patrick Hart

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Conservation Biology	Kathryn Quillin	Appalachian State University	Chicken Litter Runoff in High Quality Headwater Streams: An Investigation of Endocrine Disruption and Heavy Metal Toxicity	Shea Tuberty
Conservation Biology	Anthony Rafferty	Duke University	Development of a baseline of catch and bycatch data for the fixed gear sector fleet in Georges Bank, Cape Cod	Eric Brazer
Conservation Biology	Christopher Sheridan	University of Newcastle upon Tyne	Parrotfish corallivory as a means of coral diseases transmission – Evaluation by comparison of bacterial populations	John Bythell
Conservation Biology	Molly Timmers	University of Hawaii at Hilo	Gene Flow and connectivity of the crown-of-thorns starfish, <i>Acanthaster planci</i> , in the central Pacific	Marta de Maintenon
Conservation Biology	Leita Tschanz	University of Newcastle upon Tyne	Biogeographic variation of zooxanthellae in selected scleractinian corals from the West India Ocean.	John Bythell
Ecology	Jessica Abbate	University of Virginia	The determinants of pathogen distribution in natural populations: Anther smut on <i>Silene vulgaris</i> across an elevational gradient.	Janis Antonovics
Ecology	BriAnne Addison	University of Missouri-St. Louis	Ecology and evolution of maternal antibody allocation in <i>Turdus grayi</i>	Robert Ricklefs

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Ecology	Javan Bauder	Idaho State University	The effects of topography, fire disturbance, and prey availability on the movements and habitat selection of prairie rattlesnakes in a mountainous landscape in central Idaho	Charles Peterson
Ecology	Maria del Mar Beaumont Fantozzi	Universidad de Buenos Aires	Diversity and habitat associations of seed-carrying ant assemblages in the Monte desert	Javier Lopez de Casenave
Ecology	Laura Bedinger	University of South Florida	What lies beneath: structure and ecosystem function of rhizophytic algal holdfasts in soft bottom habitats	Susan Bell
Ecology	Eric Bless	University of North Dakota	The effects of <i>Centrovarium lobotes metacercariae</i> on the bioenergetics of stream fishes	Steven Kelsch
Ecology	Luca Borghesio	University of Illinois at Chicago	Habitat disturbance and the maintenance of bird species diversity in East African montane forests	Henry Howe
Ecology	Emily Broderick	American University	Environmental and pathogenic effects on bacterial diversity in surface mucus layer of the Caribbean seafan <i>Gorgonia ventalina</i> .	Kiho Kim
Ecology	David Cerasale	Cornell University	Leptin in migratory birds: a field validation	David Winkler
Ecology	Yigen Chen	University of Georgia	Can Plants Set Security Levels? Direct and Indirect Plant Defensive Responses to Gradations and Spatial Distribution of Herbivory	John R. Ruberson

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Ecology	Michael Chislock	Clarion University of Pennsylvania	Anthropogenic Eutrophication Constrains the Ability of Freshwater Animals to Detect Predators	Andrew Turner
Ecology	Susan Cook	Cornell University	Phenotypic plasticity and plant invasions: a comparative study of native and exotic congeners	Anurag Agrawal
Ecology	Erin Cooper	University of Oregon	Population Structure and Dispersal of the Intertidal Gastropod <i>Tegula funebris</i>	Alan Shanks
Ecology	Sarah Crane	Virginia Commonwealth University	Non-lethal Effects of Predators and Competition on Growth Efficiency	James Vonesh
Ecology	Kristen DeVanna	University of Toledo	Burrowing mayfly habitat choice: Effects on fish foraging	Christine Mayer
Ecology	Tara Duffy	State University of New York at Stony Brook	Proximate mechanisms for growth and sex determination in a marine fish with application to local adaptation and fishery induced selection	David Conover
Ecology	Humberto Dutra	University of Missouri-St. Louis	Impact of an invasive shrub, <i>Lonicera maackii</i> (<i>Caprifoliaceae</i>), on biodiversity through biotic interactions	Robert Marquis
Ecology	Arietta Fleming-Davies	Duke University	Can indirect interactions arise from sharing mutualists? Detecting competition or facilitation for mutualist ants among plants with extrafloral nectaries	William Morris
Ecology	Jessica Forrest	University of Toronto	Causes and correlates of bee emergence in subalpine habitats	James Thomson

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Ecology	Margaret Gaddis	University of Denver	Soil chemistry before and after Russian olive removal: understanding restoration implications.	Anna Sher
Ecology	Vinita Gowda	George Washington University	A Population genetics approach to understand sex-specific adaptation in the Caribbean Heliconia-hummingbird system	W.J. Kress
Ecology	Mark Grippo	Louisiana State University-Baton Rouge	Investigation of food webs on unique shoals located off coastal Louisiana	John Fleeger
Ecology	Robert Heckman	University of Virginia	The Effects of Biodiversity and Nutrient Pulses on the Invasibility of Tallgrass Prairie by a Non-native Forb in Virginia	David Carr
Ecology	Michelle Hersh	Duke University	The role of seedling pathogens in temperate forest recruitment	James Clark
Ecology	Brendan Hodkinson	Duke University	Lichen-associated bacterial diversity in the American tropics	Francois Lutzoni
Ecology	Danica Hogan	Trent University	A Comparison of the Invertebrate Communities of Two Adjacent Central Arctic Lakes of Different Depths in Relation to Waterfowl Movements	Michael Berill
Ecology	Leah James	Queens University	Effect of the invasive predator, <i>Bythotrephes longimanus</i> on growth of fishes in Ontario lakes.	Shelley Arnott

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Ecology	Benjamin Koch	University of Wyoming	Consumptive and non-consumptive interaction strength estimates derived from population energetics: Impacts of brook trout on prey productivity	Robert Hall
Ecology	Mark Lesser	University of Wyoming	Dynamics of tree colonization: spatial and temporal patterns of ponderosa pine expansion	Stephen Jackson
Ecology	Lauren MacDade	Ohio State University	Contribution of Emergent Aquatic Insects to Diet and Consequences for Refueling in Spring Migrant Landbirds	Paul Rodewald
Ecology	Kerry Mauck	Pennsylvania State University	A study of the effects of cucumber mosaic virus infection on host plant chemistry and vector behavior.	Mark Mescher
Ecology	Heather McGray	University of California-Irvine	Does genetic diversity facilitate exotic plant invasions?: interactions between ecological and evolutionary mechanisms	Katherine Suding
Ecology	Rodrigo Mercader	Michigan State University	Climate change induced diversification in host plant associations in a butterfly lineage through the increased hybridization of two generalist butterflies.	Jon Scriber
Ecology	Rochelle Mothokakobo	San Diego State University	Determining the role of biotic and abiotic factors in the production of phlorotannins in the brown macroalgae <i>Macrocystis pyrifera</i>	Matthew Edwards

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Ecology	Melanie Murphy	Washington State University	Limits to species' distribution and persistence: A landscape genetics study of sympatric amphibians in Yellowstone National Park	Andrew Storfer
Ecology	Punya Nachappa	Kansas State University	Testing for Potential Crosstalk between the Salicylate and Jasmonate Signaling Pathways and its Effects on Trophic-level Interactions.	David Margolies
Ecology	Shannon Pelini	University of Notre Dame	Can specialist species move ahead? The role of transition zones in host plants for a specialist butterfly species	Jessica Hellmann
Ecology	Michael Plenzler	Bowling Green State University	Management effects on the recruitment and establishment of <i>Lupinus perennis</i> (L.).	Helen Michaels
Ecology	Leeanna Pletcher	Virginia Commonwealth University	The 'ecology of fear': Colonization and aquatic subsidies	James Vonesh
Ecology	Tami Ransom	University of Virginia	Differential Effects of Introduced and Native Earthworms on the Forest Floor Faunal Community	Henry Wilbur
Ecology	John Recha	Cornell University	Nutrient sustainability along a soil degradation gradient on a watershed scale in smallholder agriculture	Johannes Lehmann
Ecology	Jennifer Ress	Bowling Green State University	Influence of Moisture on Wetwall Algal Community Composition and Structure: Field Moisture Manipulations and Natural Habitat Surveys	Rex Lowe

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Ecology	Luciana Riccialdelli	Universidad Nacional de La Plata	Trophic Ecology of Subantartic Cetaceans Using Conventional and Isotopic Techniques	Ricardo Bastida
Ecology	Roberto Salguero-Gomez	University of Pennsylvania	Climate change and demographic effects of off-growing season precipitation on herbaceous perennial " <i>Cryptantha flava</i> " L. (<i>Boraginaceae</i>).	Brenda Casper
Ecology	Jason Schmidt	Miami University Ohio	An analysis of seasonal and habitat specific Diptera feeding patterns in wolf spiders	Ann Rypstra
Ecology	Kimberly Sheldon	University of Washington	Seasonality, thermal tolerance, and range size: understanding the distribution of tropical and temperate species across altitudinal gradients	Joshua Tewksbury
Ecology	Chad Smith	University of Texas at Austin	Sperm quantity, quality, and fertilization success of alternative male mating strategies in the swordtail fish <i>Xiphophorus nigrensis</i>	Michael Ryan
Ecology	Stephanie Strudley	University of Denver	Tamarix spp. control effects on the terrestrial arthropods trophic cascade	Anna Sher
Ecology	Cynthia Tant	University of Georgia	Nutrient Enrichment Effects on Detrital Resources: Linkages between Coarse and Fine Particulate Matter	Amy Rosemond
Ecology	Larissa Unruh	University of Oregon	Direct virus competition in a common native perennial grass	Barbara Roy

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Ecology	Joshua White	Boise State University	The importance of harvester ant seed predation on slickspot peppergrass reproduction	Ian Robertson
Ecology	Jennifer Williams	University of Montana	Understanding invasive plant success with experiments in the native and introduced ranges	John Maron
Ecology	Sandra Woolfolk	Mississippi State University	Fungi and bacteria associated with red imported fire ants and mounds in Mississippi, and their potential use as biological control agents.	Richard Baird
Ecology	Sarah Wright	University of Wisconsin-Madison	Examining ecotypic variation in climate tolerance traits of <i>Lupinus perennis</i> , hostplant of the endangered Karner Blue Butterfly	Donald Waller
Ecology	Asako Yamamuro	Oregon State University	Forecasting the effects of dam-induced flow changes on stream-dwelling organisms	David Lytle
Engineering	Russell Cox	Marquette University	Experimental Validation of Generalized Formulas for the Characteristics of Dynamically-Driven Polymer-Coated Microcantilever Chemical Sensors in a Viscous Liquid Medium	Fabien Josse
Engineering	Laura Dong	North Carolina State University	Determination of Block Copolymer Sequence Length Distributions by the Measurement of Electro-optical Kerr Constants	George Roberts

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Engineering	Kendra Fitzwater	Ball State University	Assessment of Environmental and Public Health Hazards of Electronic Waste	John Pichtel
Engineering	Justin Jaworski	Duke University	Construction of Experimental Wing Model for Nonlinear Aeroelasticity Studies	Earl Dowell
Engineering	Weiguo Li	University of Illinois at Chicago	New possible marker for evaluating the tissue-engineered cartilage	Richard Magin
Engineering	Margaret Orders	Virginia Polytechnic Institute and State University	Fate of Omega-3 Fatty Acids in Processed Dairy Products	Parameswarakumar Mallikarjunan
Engineering	Parth Shah	University of Akron	Development of Electrospun films type drug delivery devices using blends of novel L-tyrosine based polyurethanes and polyphosphates	Stephanie Lopina
Engineering	Jason Tavares	McGill University	Synthesis of a stabilized copper-ethylene glycol nanofluid for use as an enhanced heat transfer fluid	Sylvain Coulombe
Hydrology/ Geomorphology	Jennifer Abrahamson	Iowa State University	Hydrogeological and Geophysical Investigation of the Upper Bear Creek Watershed	William Simpkins
Hydrology/ Geomorphology	Felisha Cullins	Texas A&M University-Corpus Christi	Assessment of Historical Transport of Radionuclides from Abandoned Uranium Mines to Watershed	Philippe Tissot
Hydrology/ Geomorphology	Vanessa Drueke	Illinois State University	The Impact of Streambed Sediment Size on Hyporheic Temperature Profiles in a Low Gradient Third-order Agricultural Stream	Eric Peterson

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Hydrology/ Geomorphology	Drew Gower	University of Wisconsin- Madison	Seepage quantification and modeling of reservoir contribution to groundwater levels in the Nariarlé basin of Burkina Faso	Jean Bahr
Hydrology/ Geomorphology	Jason Gulley	University of Florida	Evaluation of glacier stress regime controls on englacial conduit routing: a dynamic, plastic karst aquifer approach to glacier hydrology.	Jonathan Martin
Hydrology/ Geomorphology	Markella Hoffman	University of Kansas	Incision and exhumation history of the Colorado Plateau in the Canyonlands to Book Cliffs region, Utah	Daniel Stockli
Hydrology/ Geomorphology	Sarah Kopczynski	Lehigh University	Potential sediment flux consequences of glacial-to-interglacial ice dynamics of the Upper Cook Inlet, Alaska	Edward Evenson
Hydrology/ Geomorphology	Ellen McGuiness	Furman University	Isotopic analysis of nitrates in urban watersheds	Charles Andersen
Hydrology/ Geomorphology	Rachel Pirot	Portland State University	Debris Flow Hazard Mapping, Mt. Hood, Oregon	Scott Burns
Hydrology/ Geomorphology	Rob Venczel	Southern Illinois University- Carbondale	Historical Trends in Flow Dynamics and Flood Magnification, Tisza River, Hungary	Nicholas Pinter
Paleontology/ Sedimentation	Nicholas Balascio	University of Massachusetts Amherst	Holocene tsunami deposits in coastal lakes of the Lofoten Islands, northwestern Norway	Raymond Bradley
Paleontology/ Sedimentation	Larisa DeSantis	University of Florida	Paleoecological dynamics of mammalian communities under glacial and interglacial conditions in Florida, USA	Bruce MacFadden

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Paleontology/ Sedimentation	Andrew Farke	State University of New York at Stony Brook	Vertebrate Paleontological Exploration in the Upper Cretaceous of the Ambilobe (Diego) Basin, Northern Madagascar	David Krause
Paleontology/ Sedimentation	Jeremy Green	North Carolina State University	Long bone histology and growth patterns in Late Triassic dicynodonts (Therapsida, Anomodontia) from North America	Mary Schweitzer
Paleontology/ Sedimentation	Erik Gulbranson	University of California- Davis	Paleoclimatology of the Late Paleozoic deglaciation in Gondwana	Isabel Montanez
Paleontology/ Sedimentation	Bethiah Hall	University of Kansas	A Depositional Analysis of Tidally Influenced Deltaic Deposits in the Torrey Member of the Triassic Moenkopi Formation, Capitol Reef National Park Area, Utah	Diane Kamola
Paleontology/ Sedimentation	Karen Koy	University of Illinois at Chicago	Changes in Resource Availability and the Evolution of Foraging Behavior	Ron Plotnick
Paleontology/ Sedimentation	Krista Reichert	University of New Hampshire	A 100,000 year record of temperature variation in the Lake Chewaucan Basin, Oregon, using amino acid racemization.	Joseph Licciardi
Paleontology/ Sedimentation	Patricia Ryberg	University of Kansas	Permineralized Glossopteris ovules and ovulate organs from the Permian of Antarctica and Australia	Edith Taylor
Paleontology/ Sedimentation	Mark Schlottke	University of Wisconsin- Milwaukee	Paleoecology of the middle Cambrian eocrinoid echinoderm <i>Gogia spiralis</i> : Shifting substrate adaptation strategies through ontogeny	Stephen Dornbos

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Paleontology/ Sedimentation	Jennifer Sliko	University of South Florida	Environmental Controls Affecting Siderastrea Coral Morphology	Gregory Herbert
Paleontology/ Sedimentation	Caleb Stroup	Idaho State University	Cenozoic paleodrainage and basin development of southwestern Montana and eastern Idaho: Evidence from detrital zircon	Paul Link
Paleontology/ Sedimentation	Michael Williams	Louisiana State University- Baton Rouge	A Significant Undescribed Late Barstovian (Miocene) Herpetofauna from the Fleming Formation on Fort Polk, Western Louisiana	Judith Schiebout
Petrology/ Geochemistry	Bailey Beitscher	Colorado State University	Trace elements in molybdenite as indicators of tectono- metallogenic setting	Holly Stein
Petrology/ Geochemistry	Aaron Diefendorf	Pennsylvania State University	Evaluation of new novel bacterial lipid biomarkers for terrestrial paleoclimate within the context of the Paleocene-Eocene Thermal Maximum	Katherine Freeman
Petrology/ Geochemistry	Tasha Dunn	University of Tennessee- Knoxville	Deriving New Calibrations For VISNIR Spectra of Asteroids Using Ordinary Chondrite Modal Abundances	Harry McSween
Petrology/ Geochemistry	Angela Green- Garcia	Louisiana State University- Baton Rouge	Characterization of the lucinid bivalve- bacteria symbiotic system: the significance of the geochemical habitat on bacterial symbiont diversity and phylogeny	Annette Engel
Petrology/ Geochemistry	Dorien McGee	University of South Florida	Testing a Biologic Model of Carbonic- Acid Driven Cave Dissolution with Stable Carbon Isotope Tracing	Peter Harries

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Petrology/ Geochemistry	Ian Orland	University of Wisconsin- Madison	Sub-annual resolution climate record of the eastern Mediterranean: Ion microprobe analysis of speleothems from Soreq Cave, Israel	John Valley
Petrology/ Geochemistry	Cynthia Schultz	San Jose State University	Ultramafic and basalt hosted biosignatures in the Coast Range Ophiolite near Stonyford, California	Ellen Metzger
Petrology/Geochemistr y	Jennifer Wright	Western Washington University	Measurement of Metamorphic Kinetics through combined EPMA and Sm-Nd dating.	David Hirsch
Physics/ Astronomy	John Apodaca	University of Colorado at Denver	Flux Monitoring of Active Galactic Nuclei at Optical Wavelengths	Alberto Sadun
Physics/ Astronomy	Gregory Betzel	University of Canterbury	Synthetic Diamonds for Radiation Therapy Dosimetry	Lou Reinisch
Physics/ Astronomy	William Boll	Georgia Institute of Technology	Differential Photometry of Eclipsing Binary Stars	James Sowell
Physics/ Astronomy	Thomas Brennan	University of North Carolina at Chapel Hill	The Observation of Gamma Ray Bursts	Daniel Reichart
Physics/ Astronomy	Andrew Foster	University of North Carolina at Chapel Hill	Generalized Data Regression Using Genetic Algorithms	Daniel Reichart
Physics/ Astronomy	Thomas Haver	Miami University Ohio	Assessing the Spatial Resolution of a Capillary-Based, High-Pressure Chamber for Fluorescence Microscopy Imaging via Structured Illumination	Paul Urayama
Physics/ Astronomy	Ruwan Kiringoda	Ohio State University	The Treatment of Large Brain Tumors Using Peripheral Small-Shot Irradiation with Gammaknife Radiosurgery and NOMOS Tomotherapy	Jian Wang

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Physics/ Astronomy	Jeffrey Klein	University of Minnesota, Twin Cities	Development and Integration of a Half Wave Plate Polarimeter for the EBEX Cosmic Microwave Background Balloon Experiment	Shaul Hanany
Physics/ Astronomy	David Nidever	University of Virginia	Exploring the Stellar Halo of the Large Magellanic Cloud	Steven Majewski
Physics/ Astronomy	Daniel Polsgrove	University of Minnesota, Twin Cities	A Variable Wavelength, Narrow- Band Spectrometer as a Millimeter-Wave Emission Source for High-Precision Calibration of Astronomical Polarimetry Experiments	Terry Jones
Physics/ Astronomy	Kari Van Brunt	University of Missouri-St. Louis	Characterization of Volatiles Around Young Stellar Objects	Erika Gibb
Physiology/ Functional Morphology	Lori Albergotti	University of Florida	Endocrine Function of Embryonic Membranes	Louis Guilette
Physiology/ Functional Morphology	Allen Ardestani	University of California-Los Angeles	Electrophysiology and Hemodynamics of Working Memory	Joaquin Fuster
Physiology/ Functional Morphology	Sunayana Banerjee	Cornell University	Dopamine in the preoptic area of the brain: Its role in male sexual behavior and pair bond formation in zebra finches (<i>Taeniopygia guttata</i>).	Elizabeth Adkins- Regan
Physiology/ Functional Morphology	Eddie Blay	Brown University	Upregulation of FGF2 in Alzheimer's Disease	Edward Stopa
Physiology/ Functional Morphology	Samantha Colayori	Indiana State University	Anatomy and infrared detection ability of the facial pits of North American pit vipers.	George Bakken

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Field	Student	Institution	Title	Mentor
Physiology/ Functional Morphology	Ravi Desai	State University of New York at Stony Brook	Spatiotemporal activation in microstructured co-cultures of cardiomyocytes (CM) and genetically modified human mesenchymal stem cells (hMSC).	Emilia Entcheva
Physiology/ Functional Morphology	Jessica Ellis	Virginia Polytechnic Institute and State University	Effects of acyl-dystrophy induced by ACSL1 adipose-specific knock out mouse.	Rosalind Coleman
Physiology/Functional Morphology	Jessica Healy	Colorado State University	Ghrelin levels in feeding and fasting hibernating mammals	George Florant
Physiology/ Functional Morphology	Miranda Kim	University of Pennsylvania	Effects of Chlorinated Water on Zebrafish Eye Development and Function	Gary Kao
Physiology/ Functional Morphology	Tami Murphy	Villanova University	Phenotypic analysis of transcriptional co-activator, brd2, gene knockdowns in zebrafish (<i>Danio rerio</i>) embryos	Andela Di Benedetto
Physiology/ Functional Morphology	Sarah Orlofske	Virginia Polytechnic Institute and State University	Energetic costs of trematode metacercariae infection in larval amphibian intermediate hosts	William Hopkins
Physiology/ Functional Morphology	Aubree Roche	University of Georgia	Reservoir Competence of Darkling Beetles (<i>Tenebrionidae: Alphitobius diaperinus</i>) for Inoculated Salmonella	Nancy Hinkle
Physiology/ Functional Morphology	Rebecca Sealfon	Duke University	Microevolutionary and Macroevolutionary Niche Shift in the Mustelidae (Mammalia): Using Weasels to Understand Whales	Clifford Cunningham

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Physiology/ Functional Morphology	Zachary Swaim	University of North Carolina at Wilmington	Investigating lipid metabolism in North Atlantic right whales: using fecal samples to assess assimilation of copepod triacylglycerols and wax esters	Heather Koopman
Physiology/ Functional Morphology	James Van Dyke	University of Arkansas at Fayetteville	A mechanistic examination of the capital-income breeding dichotomy	Steven Beaupre
Psychology	Sarah Ardire	Long Island University-C.W. Post Campus	Is the Relationship Between Maternal Emotional Intelligence and Child Emotional Competence Mediated by Maternal Sensitivity?	Camilo Ortiz
Psychology	Kristin Bell	Southern Illinois University-Carbondale	The Contribution of Nonshared Environmental Factors to Differential Parental Discipline: A Twin Study	Lisabeth DiLalla
Psychology	Shanna Harkey	University of California-Davis	Immediate Effects of Dopamine Manipulation in the Infant Prairie Vole	Karen Bales
Psychology	Donna Kennedy	University of Tennessee-Knoxville	Testing the Spousal Caregiving Model of Stress in Caregivers of Persons with Multiple Sclerosis	Debora Baldwin
Psychology	Kartik Ramamoorthi	Rutgers, The State University of New Jersey	Contributions of Hippocampal PKC mRNA Expression to Memory Acquisition	Timothy Otto
Psychology	Lisa Rohrer	University of Minnesota, Twin Cities	Biological and behavioral correlates of social affiliation and attachment	Tonya White
Psychology	Laura Smith	George Mason University	Nicotine sensitization in an adolescent rat model: the role of the D3 dopamine receptor.	Robert Smith

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Field	Student	Institution	Title	Mentor
Psychology	Edward Vul	Massachusetts Institute of Technology	How does the brain compensate for vision loss?	Nancy Kanwisher
Systematics/ Evolutionary Biology	Lelena Avila	University of Virginia	Evolution of Color in <i>Thamnophis sirtalis</i>	Edmund Brodie
Systematics/ Evolutionary Biology	Aubrey Buckert	Portland State University	Steller Sea Lion (<i>Eumetopias jubatus</i>) Breeding Sites in Southern Oregon and Northern California: A Possible Hybrid Zone?	Debbie Duffield
Systematics/ Evolutionary Biology	Sarah Courbis	Portland State University	Population Structure of Island-associated Dolphins	Deborah Duffield
Systematics/ Evolutionary Biology	Anne Duploux	University of Queensland	Genomics of a male-killing Wolbachia in the butterfly <i>Hypolimnas bolina</i>	Scott O'Neill
Systematics/ Evolutionary Biology	Kasey Fowler-Finn	University of Nebraska at Lincoln	An examination of the genetics underlying geographic variation in reproductive isolation between a brush-legged and non-ornamented wolf spider in the genus <i>Schizocosa</i>	Eileen Hebets
Systematics/ Evolutionary Biology	Dawn Higginson	Syracuse University	Gametic innovation and species radiation in diving beetles	Scott Pitnick
Systematics/ Evolutionary Biology	Andrew Hope	University of New Mexico	Molecular vs. morphological vicariant evolution of rapidly evolving mammals: <i>Sorex minutissimus</i> , the tiny shrew	Joseph Cook
Systematics/ Evolutionary Biology	Melissa Islam	University of Colorado at Boulder	Tracing the evolutionary history of <i>Erythroxyllum</i>	Thomas Ranker
Systematics/ Evolutionary Biology	Jennifer Lane	City University of New York-City College	The morphology and relationships of the hybodont shark <i>Tribodus limae</i> , with a phylogenetic analysis of hybodont sharks (<i>Chondrichthyes</i> , <i>Hybodontiformes</i>)	John Maisey

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Systematics/ Evolutionary Biology	Nicholas Levsen	University of Kansas	Evolution and Glacial History of Chrysosplenium WrightII, and Ultramafic Endemic Plant on Kodiak Island, Alaska	Mark Mort
Systematics/ Evolutionary Biology	Cameron Miller	Duke University	Host Specialization and Co-evolution of <i>Ceanothus</i> and <i>Frankia</i>	Dylan Burge
Systematics/ Evolutionary Biology	Jennifer Olori	University of Texas at Austin	Ontogeny of microsaurs and implications for microsaur intra- relationships and lissamphibian origins	Christopher Bell
Systematics/ Evolutionary Biology	Sujal Phadke	University of Houston	Investigating the mating type- preference in the model eukaryote: <i>Tetrahymena</i> <i>thermophila</i>	Rebecca Zufall
Systematics/ Evolutionary Biology	Heather Shull	Boston University	The influence of MHC genotype on resistance to avian malaria in African indigobirds (<i>Vidua</i> <i>spp.</i>)	Michael Sorenson
Systematics/ Evolutionary Biology	Amanda Sparkman	Iowa State University	Endocrine-Mediated Evolution of Life History Traits in <i>Thamnophis elegans</i> : A Common Garden Experiment	Anne Bronikowski
Systematics/ Evolutionary Biology	Martin Turcotte	University of California- Riverside	Quantifying the ecological and evolutionary importance of rapid evolution	David Reznick
Systematics/ Evolutionary Biology	Avinash Vanjare	University of Pune	Biodiversity and Taxonomic studies on Sessile and Colonial Rotifera from Pune, Maharashtra.	Kalpana Pai
Systematics/ Evolutionary Biology	Jann Vendetti	University of California- Berkeley	Early ontogenetic evolution in buccinid gastropods: a multi- disciplinary approach	Carole Hickman

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Systematics/ Evolutionary Biology	Cheng-Chiang Wu	Harvard University	Evolution of MADS- box Protein Modules in Eudicot Angiosperms	Elena Kramer
Systematics/ Evolutionary Biology	Zhongyu Xie	University of Louisiana at Lafayette	Evolution, Function of Vicilin Genes from Wild Louisiana Legumes	Caryl Chlan
Tectonics/ Geophysics	Sarah Brown	Simon Fraser University	Constraining the Timing and Magnitude of Extension Along the Southern Section of the Okanagan Valley Fault, Southern BC	Dan Gibson
Tectonics/ Geophysics	Elizabeth Fein	Kent State University	Flow fabric determination of two Mesoproterozoic midcontinent rift dike swarms, northeastern Minnesota	Daniel Holm
Tectonics/ Geophysics	Gabriel Izsak	University of Georgia	A Translational Model for the Great Valley Group, California: A Detrital Zircon Analysis	James Wright
Tectonics/ Geophysics	Zeynep Oner	Miami University Ohio	Supradetachment Basin Evolution & Kinematics of Post- collisional Extension in Western Anatolia, Turkey	Yildirim Dilek
Tectonics/ Geophysics	James Thigpen	Virginia Polytechnic Institute and State University	Characterization of 3- D vorticity and strain symmetry in the southern Appalachian Inner Piedmont: An exhumed orogenic hinterland?	Richard Law