

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Anthropology	Jeffrey Buechler	University of Illinois at Chicago	Classic Maya Socio-Political Interactions in Ancient Guatemala	Palka, Joel W.
Anthropology	Matthew Fariss	University of North Carolina-Chapel Hill	Archaeological Survey of the Upper Moche Valley, Peru	Billman, Brian R.
Anthropology	Krista Fish	University of Colorado at Boulder	The Community Ecology of Sympatric Nocturnal Primates and Bats: Understanding Dietary Niche Separation at the Blyde River Canyon Nature Reserve, South Africa	Sauter, Michelle L.
Anthropology	Andrew Froehle	University of California-San Diego	Energy Expenditure in Postmenopausal Forager Women: An Experimental Model Based on North American Women	Schoeninger, Margaret J.
Anthropology	Susan Glover	University of California-Davis	Resource Extraction Economics of a Boom Town, Gothic Colorado 1878-1900.	Winterhalder, Bruce P.
Anthropology	Katherine Grillo	Washington University in St. Louis	A Report on the Ceramics from Guli Waabayo: Subsistence, Mobility, and Material Culture in Prehistoric Southern Somalia	Marshall, Fiona B.
Anthropology	Jessica Hedgepeth	University of Colorado at Boulder	The Late Classic Collapse at Rio Viejo, Oaxaca: Commoner Economic Response	Joyce, Arthur A.
Anthropology	Stacy Kozakavich	University of California-Berkeley	Archaeology and History of Advance, Tent-Village of the Kaweah Co-operative Colony, ca. 1886-1892.	Wilkie, Laurie A.
Anthropology	Zarin Machanda	Harvard University	The Effect of Male Presence on Female Feeding Efficiency Among the Chimpanzees of the Budongo Forest, Uganda	Wrangham, Richard W.
Anthropology	Corin McLean	Harvard University	Why Red Colobus: Exploring Arboreal Behaviors in Colobines That May Impact Chimp Hunting Preferences	Wrangham, Richard W.
Anthropology	Caley Orr	Arizona State University	Three-dimensional Morphometrics and Kinematics of the Anthropoid Wrist and the Evolution of Knuckle-walking	Marzke, Mary W.
Anthropology	Melissa Raguette-Schofield	University of Illinois at Urbana-Champaign	Feeding Behavior and the Evolution of Extended Juvenility in Primates	Leigh, Steven R.
Anthropology	Chihiro Shibata	Southern Illinois University-Carbondale	Male-Female Interactions in Captive Cotton-top Tamarins (<i>Saguinus oedipus</i>)	Ford, Susan M.
Anthropology	Ben Shields	University of North Carolina at Chapel Hill	Deconstructing Time-Progressive Models of Prehistoric Warfare in the Southeastern United States	Hutchinson, Dale L.
Anthropology	Charles Speal	Pennsylvania State University	The Biological Impacts of Expanding Cultural Systems: Roman Imperialism, Incipient Urbanism, and Skeletal Biology in Contexts of Increasing Social Complexity	Snow, Dean R.
Anthropology	Tammy Watkins	University of Georgia	Children's Subsistence Contributions to Pastoral Households in the Drylands of East Africa	Tucker, Bram T.
Behavioral Ecology	Jonathan Atwell	Indiana University Bloomington	Hormones, Plasticity, and Evolution Following Colonization of a Novel, Anthropogenic Environment	Ketterson, Ellen D.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Behavioral Ecology	Alison Behie	University of Calgary	The Role of Nutrition and Parasite Load in Determining Black Howler Monkey Population Density in a Hurricane-damaged Forest in Belize	Pavelka, Mary S.
Behavioral Ecology	Sarah Benson-Amram	Michigan State University	Social Complexity and Comparative General Intelligence in Mammalian Carnivores	Holekamp, Kay E.
Behavioral Ecology	Stephanie Bush	University of California-Berkeley	Ink Release by Deep-Sea Squids: A Chemical Deterrent to Predation?	Caldwell, Roy L.
Behavioral Ecology	Mukta Chakraborty	University of North Carolina at Chapel Hill	Neuro-endocrine Mechanisms of Female Receptive Behavior in Tungara Frogs (<i>Physalaemus pustulosus</i>)	Burmeister, Sabrina S.
Behavioral Ecology	Jodi Den Uyl	Grand Valley State University	Analysis of Microbial Assemblages in Mated Tree Swallows using Denaturing Gradient Gel Electrophoresis	Thorpe, Patrick A.
Behavioral Ecology	Samuel Diaz-Munoz	University of California-Berkeley	Genetic Test of Adaptive Benefits of Cooperative Male Parental Care in Tamarins	Lacey, Eileen A.
Behavioral Ecology	Stacey Dunn	University of Idaho	Inbreeding in the National Bison Range, Montana Pronghorn Population	Byers, John A.
Behavioral Ecology	Quinn Emmering	Texas Tech University	Do Songbirds use Proximate Cues to Avoid Predators in Space?	Schmidt, Kenneth A.
Behavioral Ecology	Brittany Enzmann	University of California-Los Angeles	Queen Investment and Implications for Colony Founding Strategies in Harvester Ants (genus <i>Pogonomyrmex</i>)	Nonacs, Peter N.
Behavioral Ecology	Amelia Fort	St. Mary's College of Maryland	The Function of Bioluminescence in the Ctenophore <i>Mnemiopsis leidyi</i> : a Test of the "burglar-alarm" Hypothesis	Tanner, Christopher E.
Behavioral Ecology	Susan Herrick	University of Connecticut	Behavioral Interactions Among Breeding Male Bullfrogs (<i>Rana catesbeiana</i>) and Green Frogs (<i>Rana clamitans</i>) at Different Spatial and Temporal Scales	Wells, Kentwood D.
Behavioral Ecology	Karen Kapheim	University of California-Los Angeles	The Evolution of Cooperation and Social Correlates of Individual Recognition	Nonacs, Peter N.
Behavioral Ecology	Lynna Kiere	University of Maryland, Baltimore County	Exploring Female Coloration in Streak-Backed Orioles: Variation, Behavior, and Evolution	Omland, Kevin E.
Behavioral Ecology	Mark Laidre	Princeton University	Vulnerability and the Evolution of Honest Signaling	Altmann, Jeanne
Behavioral Ecology	Amanda Malueg	Virginia Polytechnic Institute and State University	Investigation of Physiological Mechanisms for Reproductive Suppression of Helpers in a Cooperatively Breeding Species	Moore, Ignacio T.
Behavioral Ecology	Cassandra Martin	University of Nebraska at Lincoln	Association Costs in the Female Field Cricket, <i>Gryllus lineaticeps</i>	Wagner, William E.
Behavioral Ecology	John McCormack	University of California-Los Angeles	Is Blue Egg Color a Sexually Selected Trait in Mexican Jays?	Smith, Thomas B.
Behavioral Ecology	Melissa Meadows	Arizona State University	Iridescent Structural Coloration as a Status Signal in Anna's Hummingbird (<i>Calypte anna</i>)	McGraw, Kevin J.
Behavioral Ecology	Kara Nuss	University of Chicago	The Function of Introductory Copulations in Captive Goeldi's Monkeys	Margulis, Susan W.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Behavioral Ecology	Maria Palacios	Iowa State University	Effect of Age on the Trade-off between Reproductive Effort and Immune Function in Tree Swallows <i>Tachycineta Bicolor</i>	Vleck, Carol M.
Behavioral Ecology	Nelida Pohl	University of California-Irvine	Blue Opsin Gene-mediated Blue Color Vision in <i>Lycaena</i> Butterflies	Briscoe, Adriana D.
Behavioral Ecology	Genevieve Spanjer	University of Maryland, College Park	An Investigation of Social Learning & Decision-making while Foraging in the Short-tailed Fruit Bat, <i>Carollia perspicillata</i>	Moss, Cynthia F.
Behavioral Ecology	Megan Stallman	St Mary's College of Maryland	An Investigation of the Response of a Population of Red-winged Blackbirds (<i>Agelaius phoeniceus</i>) to Variable Songs from Foreign Populations	Price, John J.
Behavioral Ecology	Kevin Theis	Michigan State University	A Bacterial Mechanism for Group-specific Odors in Mammals	Holekamp, Kay E.
Behavioral Ecology	Jamie Wagner	Florida Institute of Technology	Habitat Alteration and Its Affect on Predator-Prey Interactions of the Invasive Pike Killifish and the Native Mosquitofish	Turingan, Ralph G.
Behavioral Ecology	Becky Williams	University of California-Berkeley	Chemical Defense from Predation in Hatchlings of the Blue Ringed Octopus <i>Hapalochlaena lunulata</i>	Caldwell, Roy L.
Behavioral Ecology	Jason Williams	State University of New York at Syracuse	Phototactic Swimming and Diel Horizontal Migration by Zooplankton	Schulz, Kimberly L.
Behavioral Ecology	Patrick Yamnik	University of Mississippi	Factors Affecting Natal Dispersal in Two Species of <i>Ambystoma</i>	Buchholz, Richard
Behavioral Ecology	Birgit Ziesemann	Massey University	Social Organisation and Mating System of the North Island Brown Kiwi (<i>Apteryx mantelli</i>) in a High-density Population	Brunton, Dianne H.
Cell Biology/ Biochemistry	Evelina Basenko	University of Georgia	Investigation of the Genetic Requirements for T-circle and T-loop Formation	McEachern, Michael J.
Cell Biology/ Biochemistry	Dawn Delo	Wake Forest University School of Medicine	Cardiac Tissue Regeneration using Amniotic Fluid Derived Stem Cells	Atala, Anthony J.
Cell Biology/ Biochemistry	Amy Kilbarger	University of North Carolina at Greensboro	The Effect of Iron Excess on Osteoblast Phenotypic Development	Kipp, Deborah
Cell Biology/ Biochemistry	Daniel Lee	Johns Hopkins University School of Medicine	Molecular Basis of Cell Fate Specification in the Mammalian Hypothalamus	Blackshaw, Seth
Cell Biology/ Biochemistry	Adam Lowe	Salisbury University	Docosahexenoic Acid and the Metastatic Capacity of Murine Melanoma Cells	Williams, Ellis E.
Cell Biology/ Biochemistry	Noha Mesbah	University of Georgia	Energy Conservation and Bioenergetic Parameters in a Novel Group of Extremophiles, the <i>Halophilic Alkalithermophiles</i>	Wiegel, Juergen K.
Cell Biology/ Biochemistry	Doris Molina	Wake Forest University School of Medicine	The Effect of Age and Growth Hormone/Insulin-like Growth Factor Axis on Glutamate Receptor Subunit Levels	Brunso-Bechtold, Judy K.
Cell Biology/ Biochemistry	Noah Morgan	Wayne State University	Caldesmon Control of Microvascular Tone Following Traumatic Brain Injury	Kreipke, Christian W.
Cell Biology/ Biochemistry	Chika Nwugo	Miami University Ohio	A Proteomic Study on the Molecular Roles of Silicon Nutrition in Cadmium Tolerance of Rice (<i>Oryza sativa</i> L.)	Huerta, Alfredo J.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Cell Biology/ Biochemistry	Ashley Rivenbark	University of North Carolina at Chapel Hill	Characterization of DNA Sequence Elements That Direct CpG Methylation of Breast Cancer Tumor Suppressor Genes	Coleman, William B.
Cell Biology/ Biochemistry	Mohit Sirohi	Widener University	Isolation and Characterization of Parvalbumin Isoforms in Sheepshead and Rainbow Trout	Bastin, Loyd
Cell Biology/ Biochemistry	Pavani Thotakura	University of North Carolina at Chapel Hill	Yes-associated Protein 65 kDa (YAP) and Heterogeneous Nuclear Ribonuclear Protein U (hnRNP U): A Possible Transcriptional Complex?	Milgram, Sharon L.
Cell Biology/ Biochemistry	Stephanie van Veen	Cornell University	Effects of High Progesterone on Avian Sex Chromosome Segregation During the Sex-determining Division of Meiosis	Adkins-Regan, Elizabeth
Cell Biology/ Biochemistry	Emily Wisseman	University of Illinois at Urbana-Champaign	The Impact of Environmental Changes on Microbial Communities Present in Coral Reefs	Fouke, Bruce W.
Cell Biology/ Biochemistry	Chrissa Wright	State University of New York at Plattsburgh	Structural and Functional Analysis of the Hemoglobin Encoding Gene in <i>Paramecium tetraurelia</i>	Elwess, Nancy L.
Cell Biology/ Biochemistry	Weiguo Yao	Indiana University School of Medicine	The GH/IGF-I axis and Postnatal Growth of Weaver Mutant Mice	Lee, Wei-Hua
Chemistry	Melanie Burger	University of Calgary	Design of Liposome Microarray Systems for High Throughput Protein-Lipid Membrane Interaction Studies	Cosa, Gonzalo
Chemistry	Kevin Cormier	Saint Louis University	Improved Catalysts for Alkene Hydroamination	Lewis, Michael A.
Chemistry	Kevin Dean	Willamette University	Understanding Solubility: The Equilibrium Phase Diagram for the Binary Liquid System 3-Butyn-2-one / Water	Williamson, J. C.
Chemistry	Erik Hosler	Susquehanna University	Synthesis and Evaluation of Heteroscorpionate Tungsten Complexes Separated by Bridging Ligands	Chohan, Balwant S.
Chemistry	Karah Knope	George Washington University	Synthesis of Lanthanide Oxalates via In-Situ Ligand Formation: Decarboxylation, Organic Oxidation, and the Reductive Coupling of Adventitious Carbon Dioxide	Cahill, Christopher
Chemistry	Viola Meadors	Tennessee Technological University	Extraction of Cesium by Various Functionalized Calix[4]arene-Crown-6 Ethers	Ensor, Dale D.
Chemistry	Martha Sedabres	Saint Louis University	A Thermodynamic Study of Naturally Occurring 2x2 Loops in RNA	Znosko, Brent M.
Chemistry	Jian Shen	University of California-San Diego	Interfacial Bonding Structure and Kinetic Mechanism of the High-K on III-V Compound Semiconductor	Kummel, Andrew C.
Chemistry	Robert Singleton	Louisiana State University-Baton Rouge	Nanoparticle Synthesis	Warner, Isiah M.
Chemistry	Binfeng Xia	University of South Carolina	Pharmacokinetics of a Novel Antihypertensive Agent MS23 i.v. in Rats	Fox, Laura M.
Computer Science/ Mathematics	Claudia Leonardi	Louisiana State University-Baton Rouge	Evaluation of Mathematical Processes and Calibration Statistics on Diode Arrays Generated Data	Geaghan, James P.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Conservation Biology	David Ballinger	Appalachian State University	Physical Variables and Community Structure of the White Rocks Cliff System, Cumberland Gap National Historical Park	Walker, Gary L.
Conservation Biology	Paula Capece	University of Hawaii at Manoa	Estimating Jaguar Densities Using Capture-recapture Analysis: Comparison of a Protected Area and an Unprotected Area in Roraima, Northern Brazil	Fragoso, José Manuel V.
Conservation Biology	Molly Dickens	Tufts University	Does Stress Compromise Translocation and Reintroduction Efforts?	Romero, L. M.
Conservation Biology	Ivan Mateo	University of Rhode Island	Assessing Connectivity and Essential Fish Habitat for Reef Fish in Mangrove and Seagrass Environments Using otolith Microchemistry	Durbin, Edward G.
Conservation Biology	Jennifer Mortensen	Villanova University	Effects of habitat loss on social ecology and reproduction of the endangered White-breasted Thrasher (<i>Ramphocinclus brachyurus</i>)	Curry, Robert L.
Conservation Biology	Joy O'Keefe	Clemson University	Multi-scale Foraging Habitat Selection by Bats in the Southern Appalachian Mountains	Loeb, Susan C.
Conservation Biology	Anna Ploshnitsa	Lomonosov Moscow State University	Changes in the Genetic Diversity of the Endangered Mednyi Island Arctic Fox Population (<i>Alopex lagopus semenovi</i> Ognev 1931) Passed through a 'Bottleneck'	Goltsman, Mikhail E.
Conservation Biology	Varun Swamy	Duke University	Examining the Insidious Effects of Hunting in Disrupting the Critical Role of Animals in the Perpetuation of Tropical Rainforests	Terborgh, John W.
Conservation Biology	Robert Thigpen	Appalachian State University	Stable Isotope Analysis of Commercially Important Marine Invertebrates from Belize	Creed, Robert
Ecology	Jenica Allen	University of Virginia	The Role of Enemy Release and the Evolution of Increased Competitive Ability in the Invasion of Pacific U.S. Estuaries by <i>Spartina Alterniflora Loisel</i>	Carr, David E.
Ecology	Christy Bowles	University of California-Davis	Do alternate Stable States Exist in Bodega Harbor Mudflats?	Grosholz, Edwin D.
Ecology	Michael Carey	University of Illinois at Urbana-Champaign	Exploring Fish Diversity as a Determinant of Ecosystem Properties in Aquatic Food Webs	Wahl, David H.
Ecology	Martha Carlson	University of Michigan-Ann Arbor	Evapotranspiration and Ground-Water Flow Systems in a Fresh-Water Coastal Ridge-and-Swale System	Wiley, Mike J.
Ecology	Kristen Cecala	Davidson College	Eating Your Neighbor: The Role of Predation in Structuring Stream Salamander Guilds	Dorcas, Michael E.
Ecology	Alice Dennis	Louisiana State University-Baton Rouge	Cold Tolerance and Cryptic Species in <i>Melampus bidentatus</i>	Hellberg, Michael E.
Ecology	Jillian Detwiler	Purdue University-West Lafayette	Population re-structuring in Complex Life Cycles: The Effects of Intermediate Host Specificity and Vagility on Parasite Transmission Dynamics	Minchella, Dennis J.
Ecology	Michael Dixon	University of Minnesota Duluth	Potential Local Adaptation of a tumbling flower beetle across the prairie/forest boundary	Craig, Timothy P.
Ecology	Timothy Dwyer	Northeastern University	The Role of Genetic Diversity in Marine Community Resistance to Biological Invasions	Trussell, Geoffrey C.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Ecology	Sally Entrekin	University of Notre Dame	Food Web Dynamics of Macroinvertebrate Communities in Historically Logged, Headwater Streams in the Upper Peninsula of Michigan	Lamberti, Gary A.
Ecology	Jorge Esquivel	Appalachian State University	Chytrids vs Amphibians: Emerging Disease or History of Natural Selection?	Tuberty, Shea R.
Ecology	Caroline Fortunato	American University	Assessing Biogeochemical Processes of A Freshwater Tidal Estuary through Microbial and Nutrient Composition	Bushaw-Newton, Karen L.
Ecology	Ana Gabela	University of Massachusetts Amherst	Site Fidelity and Human Impact on the Medium Ground Finch (<i>Geospiza foris</i>) on Santa Cruz, Galápagos Islands	Podos, Jeffrey
Ecology	Jo Halliday	University of Edinburgh	Carnivores as Sentinels of Emerging and Resurging Human Diseases in East Africa	Cleaveland, Sarah
Ecology	Benjamin Harter	University of Manitoba	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>Cephus grylle</i>)	Davoren, Gail K.
Ecology	Helene Hegaret	University of Connecticut	Investigation of the Role of the Hemocytes in the Harmful Algae-bivalve Mollusc Trophic Interaction	Shumway, Sandra E.
Ecology	Christopher Howey	University of Central Arkansas	Sex-based Differences in Habitat Selection in a Turtle Species that does not use Aerial Basking to Thermoregulate: Implications for Reproduction	Dinkelacker, Stephen A.
Ecology	Jill Jankowski	University of Florida	Interspecific Territoriality and Habitat Specialization as Potential Mechanisms for Avian Species Replacements along Tropical Altitudinal Gradients	Robinson, Scott K.
Ecology	Ken Keefover-Ring	University of Colorado at Boulder	The Interaction Between Herbivory and Pollination in <i>Monarda fistulosa</i>	Linhart, Yan
Ecology	Andrew Kramer	Michigan State University	Limitations to Recovery of <i>Hesperodiaptomus shoshone</i> after Exotic Fish Eradication: a Multi-lake Test of the Allee Effect	Sarnelle, Orlando
Ecology	Iris Levin	University of Missouri-St. Louis	Effects of host sociality on parasite prevalence and intensity in Great Frigatebirds (<i>Fregata minor</i>) on Isla Genovesa, Galapagos	Parker, Patricia G.
Ecology	Noelle Machnicki	University of Washington	The Unseen Role of Fungal Pathogens in Driving Biodiversity	Tewksbury, Joshua J.
Ecology	Lis Nelis	University of Chicago	Synergistic Interactions Between Invasive Species	Wootton, John T.
Ecology	Martin Nunez	University of Tennessee-Knoxville	The Role of Mycorrhizal Fungi in Pinaceae Invasion on Isla Victoria, Nahuel Huapi National Park, Argentina	Simberloff, Daniel
Ecology	Robin Pelc	University of California-Santa Barbara	Production and Dispersal of a Harvested Mussel in South African Marine Reserves	Warner, Robert R.
Ecology	Julie Ray	Old Dominion University	Effects of Amphibian Decline on the Trophic Ecology of Mollusk-Eating Snakes	Savitzky, Alan H.
Ecology	Sadie Reed	Kent State University	The Maintenance of Androdioecy via Metapopulation Dynamics in the Clam Shrimp <i>Eulimnadia feriensis</i>	Weeks, Stephen C.
Ecology	Yoriko Saeki	University of Kentucky	Brood Determination of the Polyembryonic Parasitoid, <i>Copidosoma bakeri</i> (Howard)	Crowley, Philip H.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Ecology	Michael Stastny	Cornell University	Local Community Structure of Related Plant Species via Direct and Indirect Ecological Interactions	Agrawal, Anurag
Ecology	Katharine Stuble	University of Georgia	Impacts of <i>Solenopsis Invicta</i> on Seed Dispersal in the Longleaf Pine Ecosystem	Wyatt, Robert E.
Ecology	Suzanne Tank	Simon Fraser University	The Effect of Landscape-level Variation of Dissolved Organic Carbon on Food Web Structure in Mackenzie Delta Lakes	Lesack, Lance
Ecology	Rebecca Urban	State University of New York at Binghamton	Can the Presence of an Invasive Species Alter Lake Chemistry due to Suppression of a Native Macrophyte?	Titus, John E.
Ecology	Alyson Urian	University of North Florida	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	Smith, Kelly J.
Ecology	Christie Wilcox	Eckerd College	Effect of Fiddler Crabs on Mangrove Seedling Growth in Cockroach Bay, Florida	Smith, Nancy F.
Engineering	Maria Antoniou	University of Cincinnati	Destruction of the Cyanobacterial Toxins Microcystin- LR and Cylindrospermopsin with Advanced Oxidation Technologies (AOTs)	Dionysiou, Dionysios D.
Engineering	Laura Christianson	Kansas State University	Assessing the Use of Poplars for Hydraulically Controlling a Groundwater Plume	Hutchinson, Stacy L.
Engineering	Justin Ferrentino	University of New Hampshire	Microalgal Oil Extraction and In-situ Transesterification	Farag, Ihab H.
Engineering	Niraj Muni	University of Illinois at Chicago	Light-regulated GABA _c receptors	Pepperberg, David R.
Engineering	Siddhartha Pathak	Drexel University	Measuring Local Properties by Nanoindentation Using a Tapered Flat Punch Indenter	Kalidindi, Surya R.
Engineering	Jennifer Patterson	University of Washington	Controlled Release of Osteoprotegerin from Hydrogel Scaffolds for Bone Regeneration	Stayton, Patrick S.
Engineering	Ambarish Pawar	University of Illinois at Chicago	Retinal Signal Processing Studied by Ganglion Cell and Electroretinographic Recording	Pepperberg, David R.
Engineering	Mahadevabharath Somayaji	University of Illinois at Chicago	A Computational Approach for Investigating Intracranial Dynamics in Humans based on a Patient Specific Approach	Linninger, Andreas
Engineering	Kishore Tenneti	Drexel University	Phase Structures of Hierarchically Self Assembled Liquid Crystalline Rod-Coil Block Copolymers with Bent-Core Mesogens	Li, Christopher Y.
Engineering	Siddarth Venkatesh	Auburn University	Biomimetic Therapeutic Contact Lenses For The Enhanced Loading And Extended Release Of Ocular Therapeutics	Byrne, Mark E.
Hydrology/ Geomorphology	Holly Barnard	Oregon State University	Illuminating the Black Box: The Influence of Forest Transpiration on Stream Discharge in a Small Headwater Catchment	Bond, Barbara J.
Hydrology/ Geomorphology	Patrick Belmont	Lehigh University	Long-term Erosion Rate Response to Fault Activity in the Lemhi Range, Eastern Idaho	Pazzaglia, Frank J.
Hydrology/ Geomorphology	Gordon Bromley	University of Maine, Orono	Reconstructing the Late-Quaternary Glacial History of Nevado Coropuna, Peru	Hall, Brenda L.
Hydrology/ Geomorphology	David Buck	University of Florida	Linking Land Use Patterns and Aquatic Ecosystem Function in the Temash Watershed, Belize	Brenner, Mark

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Hydrology/ Geomorphology	Jedediah Frechette	University of New Mexico	Geomorphic Response to Fire and Climate Change in Ponderosa Pine Forests, Sacramento Mountains, NM	Meyer, Grant A.
Hydrology/ Geomorphology	Ana Londono	University of Cincinnati	Erosion Evolution in Arid Environments Derived from the Study of Pre-Columbian Agricultural Terraces in Southern Peru	Nash, David B.
Hydrology/ Geomorphology	Brandon Mijal	Western Washington University	Holocene Glaciation in the Sawtooth Mountains, Central Idaho	Clark, Douglas H.
Hydrology/ Geomorphology	Benjamin Swanson	University of New Mexico	Impact of Holocene Sediment Dynamics and Historical Dam Construction on the Rio Chama, New Mexico: Implications for River Management	Meyer, Grant A.
Paleontology/ Sedimentation	Devin Buick	University of Cincinnati	Exploring the Evolution of Morphological Disparity within and among Species of the Bivalve Genus <i>Cucullaea</i>	Miller, Arnold I.
Paleontology/ Sedimentation	Leigh Fall	Texas A&M University-College Station	The Role of Local and Regional Processes on Diversity of Fossil Communities	Olszewski, Thomas D.
Paleontology/ Sedimentation	Jesse Koch	University of Iowa	Sequence Stratigraphy and Facies Analyses of the Lower Dakota Formation, Southeast Nebraska	Brenner, Robert L.
Paleontology/ Sedimentation	Anthony Kramer	University of Cincinnati	Characterization of a New Cambrian Lagerstätte: a New Non-Uniformitarian Biofacies	Brett, Carlton E.
Paleontology/ Sedimentation	Naomi Levin	University of Utah	An Isotopic Study of East African Paleoaridity in the Pliocene and Pleistocene	Cerling, Thure E.
Paleontology/ Sedimentation	Terrence McCloskey	Louisiana State University-Baton Rouge	Proxy Hurricane Records for the Western and Southern Caribbean	Liu, Kam-biu
Paleontology/ Sedimentation	Michael McGlue	University of Arizona	The Modern Sedimentology of Andean Foreland Basin Lakes: Keys to Understanding Lacustrine Deposits in Ancient Foreland Basins	Cohen, Andrew S.
Paleontology/ Sedimentation	Carlye Peterson	California State University-Long Beach	Biogenic Silica as a Climatic Proxy for Monsoon Intensity in Vietnam Over the Last 1200 Years	Stevens, Lora R.
Paleontology/ Sedimentation	Stephaney Puchalski	Indiana University Bloomington	Investigation of the Ultrastructural Basis of Taphonomic Biases Against Preservation of Polyplacophorans	Johnson, Claudia C.
Paleontology/ Sedimentation	Lori Riggelman	Western Washington University	Evidence for Paleotsunamis in Northern Puget Sound, Washington State, USA	Suczek, Christopher A.
Paleontology/ Sedimentation	Paul Sanford	University of South Florida	Age Estimation and Stratigraphic Resolution of Florida's Plio-Pleistocene Shell Beds Using Amino Acid Racemization Rates in Fossil Mollusks	Oches, Eric A.
Paleontology/ Sedimentation	Frank Varriale	Johns Hopkins University School of Medicine	Testing for Dinosaur-Angiosperm Coevolutionary Relationships with an Analysis of Marginocephalian Dental Microwear and Jaw Morphology	Weishampel, David B.
Petrology/ Geochemistry	Heather Heuser	University of Washington	Holocene Climatic Variability Based on the Isotopic Analysis of Diatoms in Lake Sediment from East Greenland	Stetten, Ronald S.
Petrology/ Geochemistry	Penelope Lancaster	University of Wisconsin-Madison	Granitoid Genesis in the South-eastern Adirondack Highlands, New York	Valley, John W.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Petrology/ Geochemistry	Shahnewaz Mohammad	University of Nevada, Reno	Arsenic-sulfide Oxidation: Kinetics and Reaction Mechanism Using Mixed Flow Reactor and Surface Microscopic Experiments	Tempel, Regina N.
Petrology/ Geochemistry	Julie Retrum	University of Kansas	A Paleoclimatic and Paleohydrologic Reconstruction of Pleistocene Fossil Lake, Oregon Using Faunal Assemblages and Stable Isotope Analyses	Gonzalez, Luis A.
Petrology/ Geochemistry	Debra Woodall	Florida Institute of Technology	The Role of Mineral Suspended Solids in the Photochemical Cycling of Carbon Associated with CDOM	Trefry, John H.
Physics/ Astronomy	Joshua Adams	University of Texas at Austin	A Prototype Survey for Starforming High Redshift Galaxies	Hill, Gary J.
Physics/ Astronomy	Sebastian Brandt	Washington University in St. Louis	Investigating the Conduction Velocity Asymmetry in Feedback Loops of the Avian Visual System	Wessel, Ralf
Physics/ Astronomy	Ricardo Covarrubias	University of Washington	Does Metallicity Affect the Fate of Massive Stars?	Dalcanton, Julianne
Physics/ Astronomy	Jeff Cummings	Indiana University Bloomington	Lithium Abundance Of NGC 6253 - The Most Metal-Rich Open Cluster	Deliyannis, Constantine P.
Physics/ Astronomy	Kathryn Devine	University of Wisconsin-Madison	Ammonia and CCS Studies of GLIMPSE Infrared Dark Clouds	Churchwell, Ed B.
Physics/ Astronomy	Andrew Foster	University of North Carolina at Chapel Hill	The Rise of Skynet: UNC-Chapel Hill's Global Robotic Telescope Network	Reichart, Daniel E.
Physics/ Astronomy	Joshua Haislip	University of North Carolina at Chapel Hill	Gamma Ray Bursts: Probing the Early Universe	Reichart, Daniel E.
Physics/ Astronomy	Brian Hart	University of California-Irvine	Cosmology Constraints from a Unified Picture of Galaxy Cluster Dynamical State and its Evolution	Buote, David
Physics/ Astronomy	Kevin Heng	University of Colorado at Boulder	The Vanishing Shock Emission in Supernova Remnant 1987A?	McCray, Richard A.
Physics/ Astronomy	Christian Holzner	State University of New York at Stony Brook	Confronting a Trio of Neutrino Puzzles	Goldhaber, Alfred S.
Physics/ Astronomy	Johannes Hubmayr	University of Minnesota, Twin Cities	Sensitivity of EBEX Detectors	Hanany, Shaul
Physics/ Astronomy	Siddharth Malu	University of Wisconsin-Madison	Characterizing Beam Patterns of Antennas in the 75-110 GHz Band for a Novel Interferometer - the MBI	Timbie, Peter T.
Physics/ Astronomy	Alana May	University of Alabama at Tuscaloosa	How Large is Too Large?: the Black Hole Upper Mass Limit	Keel, William C.
Physics/ Astronomy	Michael Milligan	University of Minnesota, Twin Cities	Broadband Millimeter Wavelength Anti-Reflection Technology for Observational Cosmology	Hanany, Shaul
Physics/ Astronomy	Brian Poller	University of Colorado at Boulder	The Resolution of Sun Occluding Space Debris	Culp, Robert D.
Physics/ Astronomy	Erica Raber	Miami University Ohio	A Novel Cellular High Pressure Imaging Chamber	Urayama, Paul K.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Physics/ Astronomy	Britt Reichborn-Kjennerud	Columbia University	ACS Development to Map the Polarization of the Cosmic Microwave Background Using EBEX	Blaer, Allan S.
Physics/ Astronomy	Ian Roederer	University of Texas at Austin	Isotopic Abundances of Neutron-Capture Elements in Metal-Poor Stars	Snedden, Christopher
Physics/ Astronomy	Rok Roskar	University of Washington	Supercomputing Simulations of Disk Galaxy Truncation	Quinn, Thomas R.
Physics/ Astronomy	Craig Rudick	Case Western Reserve University	Multi-filter Photometric Imaging of the ICL in the Core of the Virgo Cluster	Mihos, Chris
Physics/ Astronomy	Adam Trotter	University of North Carolina at Chapel Hill	Observations and Modeling of Gamma-Ray Burst Afterglows in the Blue	Reichart, Daniel E.
Physics/ Astronomy	Shanil Virani	Yale University	Supermassive Black Holes at High Energy and High Redshift: Testing the AGN Unification Paradigm	Urry, Claudia M.
Physics/ Astronomy	Yun Wang	Washington University in St. Louis	Extraordinary Electroconductance in In-GaAs Metal-semiconductor Hybrid Structures	Solin, Stuart A.
Physics/ Astronomy	Zhenyue Zhu	Oklahoma State University	Intrinsic Spin Hall Effect in Semiconductors with Spin Orbital Interaction	Xie, Xincheng
Physiology/ Functional Morphology	Leslie Babonis	University of Florida	To Drink or not to Drink: Behavioral Osmoregulation in an Estuarine Snake	Lillywhite, Harvey B.
Physiology/ Functional Morphology	Heidy Contreras	University of California-Irvine	The Persistence of Discontinuous Respiration in the Genus <i>Gerris</i> : The role of Water Conservation on Respiratory Patterns	Bradley, Timothy J.
Physiology/ Functional Morphology	Brian Danysh	University of Delaware	Characterization of Diffusion Coefficients of Molecules in the Lens Capsule	Duncan, Melinda K.
Physiology/ Functional Morphology	Roseline Devariste	University of Louisiana at Lafayette	Are Elicitor Proteins Responsible for Necrosis and Lesions During Witches' Broom Disease?	Hasenstein, Karl H.
Physiology/ Functional Morphology	Matthew Ellison	Mississippi State University	<i>Pseudomonas aeruginosa</i> Outer Membrane Properties Associated with Intrinsic Triclosan Resistance	Champlin, Franklin R.
Physiology/ Functional Morphology	Tiffany Fisher	Wake Forest University School of Medicine	Thalamic Integration of Synaptic Input	Godwin, Dwayne W.
Physiology/ Functional Morphology	Ravi Goyal	University of Mississippi	Developmental Regulation of Serotonin Signaling in Ovine Pulmonary Arteries	Wilson, Sean M.
Physiology/ Functional Morphology	JaNae Joyner	Wake Forest University School of Medicine	Role of the Novel Angiotensin [Ang-(1-7)] in Volume Regulation in Pregnancy	Brosnihan, K. B.
Physiology/ Functional Morphology	Maia Kiladze	I. Beritashvili Institute of Physiology	The Morphologic Changes of Structural Elements of Rat Hippocampus Provoked by Experimental Temporal Lobe Epilepsy	Japaridze, Nadezhda
Physiology/ Functional Morphology	Kristi Lewton	Arizona State University	Biomechanical Analysis of Strain in the Primate Pelvis	Spencer, Mark
Physiology/ Functional Morphology	James Mallen	Wartburg College	Gender Differences in the Effects of Nicotine on Spatial Learning, Memory, and Neurogenesis in Aged Adult Rats	Melville, John M.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Physiology/ Functional Morphology	Meridith Mikulich	Georgetown University	Pax3 and Pax7 Protein Expression and Localization in Skeletal Muscle after Injury to the Peripheral and Central Nervous System	Hyatt, Jon-Philippe K.
Physiology/ Functional Morphology	Heather Mostman-Liwanag	University of California-Santa Cruz	Thermal Limitations of Northern Fur Seals (<i>Callorhinus ursinus</i>): A Comparative Study with California Sea Lions (<i>Zalophus californianus</i>)	Williams, Terrie M.
Physiology/ Functional Morphology	Julie Oestreich	University of Kentucky	The Effects of P2Y12 Polymorphisms on Platelet Receptor Density and Activation	Akers, Wendell S.
Physiology/ Functional Morphology	Jeffrey Overton	University of North Carolina at Wilmington	Diffusive Constraints on Aerobic Metabolic Flux in Muscle	Kinsey, Stephen T.
Physiology/ Functional Morphology	Ryan Paitz	Illinois State University	Putative Role for the Brain in Temperature-dependent Sex Determination	Bowden, Rachel M.
Physiology/ Functional Morphology	Niv Palgi	Ben-Gurion University of the Negev	Is Digestion of Dietary Oxalate in Fat Sand Rat Guts by Symbiotic Bacteria Reduced by Increased Calcium Intake?	Pinshow, Berry
Physiology/ Functional Morphology	Michelle Rensel	University of Memphis	Food Supplementation, Hatching Asynchrony, and Nutritional Status of Florida Scrub-Jay (<i>Aphelocoma coerulescens</i>) Nestlings	Schoech, Stephan J.
Physiology/ Functional Morphology	Maria Thaker	Indiana State University	Maternal Stress and Dynamics of Alternative Reproductive Tactics in Male Offspring	Hews, Diana K.
Physiology/ Functional Morphology	Zachary Weil	Ohio State University	Photoperiodic Regulation of Experimental Autoimmune Encephalomyelitis	Nelson, Randy J.
Psychology	Candice Chavez	California State University-San Bernardino	Top-down Modulation by Medical Prefrontal Cortex of Basal Forebrain Activation of Auditory Cortex During Learning	Butt, Allen E.
Psychology	Peggy Chen	Pennsylvania State University	Orienting Visual Attention in Space	Mordkoff, J. T.
Psychology	Rebecca Deason	University of Minnesota, Twin Cities	Examination of Potential Differential Timing of Repetition-priming and Anti-priming Effects	Marsolek, Chad J.
Psychology	Kimberly Dienes	University of California-Los Angeles	The Stress Response of Depressed and At-Risk Individuals	Hammen, Constance L.
Psychology	Samuel Fasulo	Georgia State University	Complex Trauma Exposure and Psychological Distress in Incarcerated Juvenile Offenders	Jurkovic, Gregory J.
Psychology	Michael Frank	Massachusetts Institute of Technology	Learning Words to Talk about the World: linguistic Representations Underlying Word Segmentation and Word Learning	Gibson, Edward
Psychology	Kerry Jordan	Duke University	Attentional Effects of Video Game Playing: Purely Visual or Multisensory Causes and Effects?	Mitroff, Stephen
Psychology	Sara Margolin	University of Florida	Comprehension of Negation in Aging: An Assessment of Inhibition Difficulties	Abrams, Lise
Psychology	Cheyenne Munson	University of Iowa	Acoustic Cues for Anticipation in Speech Perception	McMurray, Bob
Psychology	Christopher Podlesnik	Utah State University	The Effects of Naltrexone on the Resurgence of Alcohol Self-administration in Rats: A Novel Animal Model of Relapse	Shahan, Timothy A.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Psychology	Erica Torner	California State University-San Bernardino	Basal Forebrain Involvement in Pavlovian Conditioning: An Animal Model of Alzheimer's Disease	Butt, Allen E.
Psychology	Dunja Trunk	University of Florida	Effects of Task Instructions on Off-Topic Verbosity in Young and Older Adults	Abrams, Lise
Psychology	Mario Weick	University of Kent at Canterbury	The Effects of Power on Knowledge Accessibility within a Person x Situation Framework	Guinote, Ana
Systematics/ Evolutionary Biology	Farhan Ali	National University of Singapore	Using Non-Invasive Samples for the Study of Brain and Cognition Genes in Primates	Meier, Rudolf
Systematics/ Evolutionary Biology	Bhart-Anjan Bhullar	University of Texas at Austin	Morphology, Ontogeny, and Phylogeny of Recent and Fossil Members of the Unusual Lizard <i>Clade Xenosauridae</i>	Bell, Christopher J.
Systematics/ Evolutionary Biology	Joanne Birch	University of Hawaii at Manoa	Lineage Diversification within Insular Flora: The Systematics and Biogeography of the Pacific Genus <i>Astelia</i> (<i>Asteliaceae</i>)	Morden, Clifford W.
Systematics/ Evolutionary Biology	Sara Carlson	Yale University	Investigation of an Evolutionary Novelty: Epicalyx Evolution and the Adaptive Radiation of Dipsacaceae (<i>Dipsacales</i>) in the Mediterranean Basin	Donoghue, Michael J.
Systematics/ Evolutionary Biology	Audrey Chang	Duke University	The Role of Postcopulatory Sexual Selection in Driving the Evolution of Reproductive Proteins in <i>Drosophila</i>	Noor, Mohamed A.
Systematics/ Evolutionary Biology	Ron Eytan	Louisiana State University-Baton Rouge	Phylogenetic Analysis of Microhabitat Differentiation and Metabolic Rate in the Reef Fish Genus <i>Acanthemblemaria</i>	Hellberg, Michael E.
Systematics/ Evolutionary Biology	Sheena Friend	Virginia Polytechnic Institute and State University	Evolution of Major Peanut Allergen Arah2	Hilu, Khidir W.
Systematics/ Evolutionary Biology	David Haak	University of Washington	Evolution of a Spice	Tewksbury, Joshua J.
Systematics/ Evolutionary Biology	Andrew Lee	University of California-Berkeley	Evolution of Quadrupedality in Dinosaurs and the Ontogenetic and Mechanical Implications on Limb Bone Histology	Padian, Kevin
Systematics/ Evolutionary Biology	Nicholas Levsen	University of Kansas	Systematics and Historical Biogeography of the Alternifolium Group of the Flowering Plant Genus <i>Chrysosplenium</i> (<i>Saxifragaceae</i>)	Mort, Mark E.
Systematics/ Evolutionary Biology	Lucia Luna-Wong	University of Michigan-Ann Arbor	Why are the Andes so Diverse? Testing Models of Speciation and Morphological Diversity	Myers, Philip
Systematics/ Evolutionary Biology	Nathan Morehouse	Arizona State University	Nitrogen Limitation and Sexually Dimorphic Pterin Pigmentation in a Pierid Butterfly	Rutowski, Ronald L.
Systematics/ Evolutionary Biology	Luciano Naka	Louisiana State University-Baton Rouge	Diversification Processes Inferred from Avian Suture Zones and Areas of Contact in an Interfluvium in Northwestern Amazonia	Brumfield, Robb T.
Systematics/ Evolutionary Biology	Megan Nelson	Swarthmore College	BMP7 and the Evolution of the Diastataxic Avian Wing	Prum, Richard O.

Grants from the March 15, 2006 Deadline
 Alphabetical by Subject

Field	Student Name	College/ University	Title	Mentor
Systematics/ Evolutionary Biology	Brad Oberle	Washington University in St. Louis	Inferring the History of Adaptation to Climate from the Diversity and Distribution of Dodecatheon (<i>Primulaceae</i>)	Schaal, Barbara A.
Systematics/ Evolutionary Biology	Stephen Patterson	University of Texas at Austin	Life-History Tradeoffs and the Evolution of the Acute Stress Response	Breuner, Creagh W.
Systematics/ Evolutionary Biology	Ali Rabatsky	University of Louisiana at Lafayette	Evolutionary Vestigialization of Complex Features using a Rattlesnake Model	Moon, Brad R.
Systematics/ Evolutionary Biology	Thomas Sanger	Washington University in St. Louis	Developmental Bases of Anolis Limb Length Variation	Gibson-Brown, Jeremy J.
Systematics/ Evolutionary Biology	Erin Schirtzinger	New Mexico State University	Assessing Temporal Concordance of Parrot Radiations in the New World: A Species-level Phylogeny of Neotropical Psittaciformes	Wright, Timothy F.
Systematics/ Evolutionary Biology	Adam Stein	Syracuse University	Plumage Evolution in Bearded Manakins	Uy, J. Albert C.
Systematics/ Evolutionary Biology	Melissa Toups	University of Florida	Using <i>Pthirus pubis</i> as a Marker for Human Evolutionary History	Reed, David L.
Systematics/ Evolutionary Biology	Yi-Hsin Tsai	Duke University	The Invasion and Population Dynamics of the Parasitic Plant, <i>Epifagus virginiana</i>	Manos, Paul
Systematics/ Evolutionary Biology	Jennifer Weber	East Carolina University	Selfng-Induced Flower Senescence: An Unrecognized Mode of Pollen Discounting	Goodwillie, Carol
Systematics/ Evolutionary Biology	Stuart Willis	University of Nebraska at Lincoln	Historical Biogeography of Neotropical Fishes from the Orinoco and Essequibo River Basins	Orti, Guillermo
Systematics/ Evolutionary Biology	Sandra Yi	University of Illinois at Urbana- Champaign	Parasite-host Interactions Between Aquatic Mites (<i>Acar: Hydrachnidia</i>) and Mosquitoes (Diptera: <i>Culicidae</i>) in Urban and Rural Freshwater Habitats	Francis, Bettina M.
Tectonics/ Geophysics	Kevin Burns	University of Tennessee- Knoxville	Developing Empirical Relationships Between Ground Penetrating Radar Reflection Amplitudes and Hydrologic Tracer Concentrations for Improving Characterization of Channelized Fluid Flow in Subhorizontal Bedrock Fractures	Baker, Gregory S.
Tectonics/ Geophysics	Micah Jessup	Virginia Polytechnic Institute and State University	Detailed Thermobarometric Analysis of the Top of the Greater Himalayan Slab, Everest Massif, Nepal: Implications for Testing Channel Flow Models	Law, Richard D.
Tectonics/ Geophysics	Peter Lippert	University of California-Santa Cruz	Paleogene Elevation in North Central Tibet: Testing Models for Growth of the Tibetan Plateau	Coe, Robert S.
Tectonics/ Geophysics	Karl Wegmann	Lehigh University	Broadband Geodesy, Great Earthquakes, and Vertical Tectonics of the Hellenic Subduction Zone, Crete, Greece	Pazzaglia, Frank J.