

Grants-in-Aid of Research Awards
March 15, 2005 Grant Cycle

Alphabetical by Recipient's Name

Grant Recipient	Research Field	Institution	Study Title
Georgia M. Alexander	Physiology/Functional Morphology	Wake Forest University School of Medicine	Metabotropic glutamate receptor modulation of primary visual cortex input to thalamus
Philip S. Anderson	Physiology/Functional Morphology	University of Chicago	Ecomorphological and Biomechanical Analyses of Late Devonian Fossil Fish Assemblages.
Bryan D. Arnold	Behavioral Ecology	University of Maryland, College Park	The function of social calls in Pallid bats (<i>Antrozous pallidus</i>): A field based experimental approach
Yasmine M. Baktash	Anthropology	Northwestern University	Cultivation and maintenance of power in a Maya farming village Using kinship to establish authority at Chan
Oliver Balmer	Ecology	Yale University	Effects of multiple-genotype <i>Trypanosoma brucei</i> infections on parasite dynamics and virulence
Tanuj P. Banker	Physiology/Functional Morphology	Georgetown University	Role of ATP (P2X5 and P2Y1) receptors in atrophying skeletal muscle following neuromuscular injury
Lauryn Benedict	Behavioral Ecology	University of California-Berkeley	The Genetic and Social Mating System of the California Towhee (<i>Pipilo crissalis</i>)
Carrie A. Berryman	Anthropology	Vanderbilt University	Tiwanaku Social Organization and the Impact of Status and Ethnicity on Diet: A Bioarchaeological Assessment
Dawn R. Black	Ecology	Ohio University	Community structure of ectomycorrhizal fungi in mixed oak forests of southeastern Ohio: Effects of thinning and prescribed burning
Aysecan Z. Boduroglu	Psychology	University of Michigan-Ann Arbor	Cultural Differences in Visuospatial Working Memory and Attention

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Christopher A. Bristow	Engineering	Princeton University	Experimental and computational approaches to investigate gene regulation by multiple cell communication pathways during development
Alyson M. Brooks	Physics/Astronomy	University of Washington	Thick Disk Formation in a Lambda Cold Dark Matter Cosmology
Michael R. Bruemmer	Petrology/Geochemistry	University of Kansas	CONTRASTING THE CHEMOSTRATIGRAPHY, PALEOCLIMATE, AND PALEOOCEANOGRAPHY OF THE PAWNEE, IOLA, AND OREAD CYCLOTHEMS (PENNSYLVANIAN) MIDCONTINENT USA
Laura A. Burkle	Ecology	Dartmouth College	THE IMPACT OF NITROGEN AVAILABILITY ON PLANT-POLLINATOR INTERACTIONS
Linyou Cao	Physics/Astronomy	Drexel University	Wet-Chemical Synthesis of Core/shell Perovskite Nanoparticles
Matthew D. Carling	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Testing introgression hypotheses in Passerina buntings
Yu Chen	Physiology/Functional Morphology	Virginia Polytechnic Institute and State University	Effects of Thyroid Disruption on the Expression of Thyroid Responsive RC3 Gene in Developing Japanese Quail Brain
Jena L. Chojnowski	Systematics/Evolutionary Biology	University of Florida	Identifying and Analyzing Candidate Genes for Temperature-Dependent Sex Determination in the Red-eared Slider Turtle, <i>Trachemys scripta</i>
Jennifer M. Cianciolo	Systematics/Evolutionary Biology	Indiana University - Bloomington	Dispersal as a mechanism for asexuals to avoid parasites: Does escape in space work over time?
Matthew E. Clapham	Paleontology/Sedimentation	University of Southern California	Initial Steps Towards Dominance: Bivalve Paleocology in the Late Permian

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Santiago J. Claramunt	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Testing models of biological diversification in a continental radiation: morphological evolution and cladogenesis in the avian family Furnariidae
Daniel W. Clarke	Cell Biology/Biochemistry	University of Texas Southwestern Medical Center	The Latex Bead Protective Effect Associated With Acanthamoeba Keratitis
Wendy L. Clement	Systematics/Evolutionary Biology	University of Minnesota, Twin Cities	Phylogeny of Castilleae (Moraceae): Investigating the evolutionary history of the figs' closest relatives
Clint R. Cole	Anthropology	University of California-Davis	Regional Comparison of Snake Valley Corrugated Wares from Fremont Archaeological Sites in Upper Meadow Valley Wash, Snake Valley, and Parowan Valley Using XRF Mass Spectrometry and Petrographic Thin Section Techniques
Randal T. Cole	Engineering	University of North Carolina at Chapel Hill	Modification of an isolated heart setup to simulate normal and pathophysiological performance
Tara L. Connelly	Ecology	Memorial University of Newfoundland	Biogeochemistry of the Hyperbenthos of the Beaufort Sea Shelf, Arctic Ocean: a Zooplankton-Centered Approach
Kendra G. Coonse	Cell Biology/Biochemistry	Albertson College	The effect of cadmium on Runx2 mRNA expression in a human osteoblast-like cell line Saos-2
Frank H. Cornine	Ecology	Unity College	Environmental Influences for the Tree Canopy Preference of Culex pipiens and Other Mosquito Species
Ricardo A. Covarrubias	Physics/Astronomy	University of Washington	Does Metallicity Affect the Fate of Massive Stars?
Toby S. Daly-Engel	Ecology	University of Hawaii at Manoa	Multiple paternity assessments for three congeneric shark species (Carcharhinus) in Hawaii

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Kyle G. Dexter	Ecology	University of Virginia	The Influence of Dispersal on Tropical Tree Community Composition
David D. Diaz	Anthropology	Harvard University	d15N Variation as a Function of Land-Use History from the Dendrochronological Record of a Reforested New England Farm
Meghan A. Duffy	Ecology	Michigan State University	Pathogens, predators, and prey: an experimental test of the impacts of selective predation on parasite prevalence
Fabiola M. Dφaz	Physics/Astronomy	Universidad de los Andes	SPECTRAL ANALISYS OF HD 101584 IN A CONTINUOUS FIVE YEARS SPAN OF OBSERVATION
Stephanie L. Eby	Ecology	Syracuse University	The Effects of Fire on Carnivore Habitat Choice
Patrick M. Erwin	Ecology	Unknown Institution	Incidence, Identity, and Importance of Photosynthetic Symbionts in Shallow Water Sponge Communities
Cassandra L. Fallscheer	Physics/Astronomy	Wesleyan University, Connecticut	Photometric Study of the T Tauri Star Population of NGC 2264
Tracy L. Fenger	Petrology/Geochemistry	University of North Carolina at Chapel Hill	Extracting paleoenvironmental information from shells of the European Oyster, <i>Ostrea edulis</i>
Maria Jose Fernandez	Physiology/Functional Morphology	University of California-Berkeley	Metabolic cost of hovering in the giant hummingbird, <i>Patagona gigas</i>
Valentina Ferretti	Behavioral Ecology	Cornell University	Disentangling Breeding Synchrony from Extra-pair Paternity in Swallows
Rebecca A. Fox	Behavioral Ecology	University of California-Davis	Personality, Mate Choice, and Pair Compatibility in Cockatiels (<i>Nymphicus hollandicus</i>)

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Kristin E. France	Ecology	College of William and Mary	Testing the effects of regional species pool size on the stability of ecosystem functions within metacommunities
Jennifer A. Freimund	Cell Biology/Biochemistry	Middle Tennessee State University	Effects of aldosterone and aldosterone antagonism on transcription in mouse inner medullary collecting duct cells
Frank J. Gallo	Psychology	University of Wisconsin-Milwaukee	Executive Functioning in Young Children with Williams Syndrome
Elizabeth J. Gannon	Physiology/Functional Morphology	Miami University Ohio	Synergistic Activity against Conidia and Hyphae of Fusarium by Pentamidine and Amphotericin B
Patrick R. Getty	Paleontology/Sedimentation	University of Massachusetts Amherst	The origins of the Late Cambrian trackway Climactichnites Logan 1860: the gastropod hypothesis revisited
Nicholas J. Gidmark	Systematics/Evolutionary Biology	University of Minnesota, Twin Cities	Comparative Evolution of Trophic Morphology in Four Clades of North American Minnow (Teleostei: Cyprinidae)
Lijun Gou	Physics/Astronomy	Pennsylvania State University	Investigation of Inverse Compton Scattering Effects in Gamma-ray Burst Afterglow as well as its Detection from High Redshift GRBs by GLAST
Elise F. Granek	Ecology	Oregon State University	Linkages between mangrove forests and coral reefs: examining energy flow and organism movement between systems
Sally M. Graver	Anthropology	Ohio State University	Contact in Central America: A Bioarchaeological Perspective from Ciudad Vieja, El Salvador
Gerald A. Griesel	Tectonics/Geophysics	Western Washington University	Kinematic analysis of ductile features, South Cascade River region, North Cascades Washington.

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Aaron R. Gruber	Cell Biology/Biochemistry	University of Wisconsin-Oshkosh	Response of retinal glia to hibernation-induced photoreceptor degeneration
Nana K. Hagan	Cell Biology/Biochemistry	University of Massachusetts Medical Center	Characterizing the role of Myo1c in regulating GLUT4 translocation during insulin-mediated glucose uptake.
Mary K. Hart	Behavioral Ecology	University of Kentucky	Effects of density and predation risk on the mating strategy of an egg-trading hermaphrodite (<i>Serranus tortugarum</i>)
David J. Hauber	Systematics/Evolutionary Biology	University of Cincinnati	Determination of Selective Costs Among Synonymous Codons in Highly Expressed Genes in <i>Escherichia coli</i>
Nathan E. Head	Cell Biology/Biochemistry	Marshall University	The Role of the Alginate Overproduction in a Cystic Fibrosis Isolate of <i>Pseudomonas aeruginosa</i> on Virulence in a Susceptible Mouse Model
Heather M. Heinz	Psychology	North Carolina State University	Nitric oxide regulation of aggression in a coral reef fish, <i>Thalassoma bifasciatum</i> (Teleostei; Labridae)
Matthew D. Herron	Ecology	University of Arizona	A Comparative Study of the Evolution of Complexity in Volvocales
Rachel A. Hillyer	Ecology	Florida Institute of Technology	Understanding the Transportation of Isoetes' Spores in Three Andean Lakes
Rami Hourani	Chemistry	*** Organization not found ***	Synthesis and applications multifunctional dendrimers containing silicon (Si) and tin (Sn)
Chung J. Hsu	Psychology	Ohio State University	Development of a Chinese Personality Assessment Scale
Sheena K. Humbird	Behavioral Ecology	Sam Houston State University	Extra-pair mating tactics in the Northern Cardinal (<i>Cardinalis cardinalis</i>): a test of the æconstrained female hypothesisÆ

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Deborah A. Hutchinson	Ecology	Old Dominion University	Maternal Provisioning of Sequestered Dietary Toxins by <i>Rhabdophis tigrinus</i> (Serpentes: Colubridae)
Sandra C. Jasinowski	Paleontology/Sedimentation	University of Bristol	Cranial mechanics of Dicynodontia using Finite Element Analysis
Robert Javonillo	Systematics/Evolutionary Biology	George Washington University	Molecular and Morphological Evolution of Glandulocaudine Fishes (Teleostei: Characidae)
Xianhua Jiang	Engineering	University of Vermont	Learning by Observation for Robot Manipulator
Cameron E. Johnson	Ecology	University of Mississippi	The role of zooplankton availability and heterotrophy in the recovery of cnidarian-algal symbiosis after hyperthermic bleaching
Christian F. Kammerer	Systematics/Evolutionary Biology	University of Chicago	Trends in Cranial Morphology in the Non-mammalian Therapsida
Srikrishna Kanneganti	Physics/Astronomy	University of Virginia	A Spectroscopic Upgrade to FanCam Enabling Galactic Dynamical Studies
Scott A. Kimball	Behavioral Ecology	Ohio State University	Mating System Dynamics in a long-lived, socially monogamous bird: the red-tailed hawk as an experimental model
Espen Klausen	Psychology	University of Wisconsin-Milwaukee	Pretend Companions (Imaginary Playmates): What Roles Do They Serve?
Danielle L. Lahr	Behavioral Ecology	University of Louisiana at Monroe	Intrauterine position effects on the behavior and reproductive success of communal females
Todd A. LaMaskin	Tectonics/Geophysics	University of Oregon	Detrital Zircon Provenance of Lower-Middle Jurassic Strata in Eastern Oregon and Western Idaho
Daniel A. Levitis	Ecology	University of California-Berkeley	Why do frogs and birds use the same toxin? Ask the beetles.

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Stacy M. Lindshield	Anthropology	Iowa State University	The black-handed spider monkey in a mosaic landscape at El Zota Biological Field Station, Costa Rica
Scott D. Lundy	Engineering	University of Texas at Austin	Functional Characterization of a Novel Acellular Peripheral Nerve Graft
Elizabeth M. Madin	Ecology	University of California-Santa Barbara	Shifting baselines in coral reef ecosystems: Quantifying community structure in a trophically intact coral reef ecosystem prior to the onset of fishing
Shenandoah R. Marr	Ecology	University of Hawaii at Hilo	Role of Parasites in the Invasional Success of the Puerto Rican tree frog <i>Eleutherodactylus coqui</i> (Amphibia) in Hawaii
Jordan M. Marshall	Ecology	University of Tennessee-Knoxville	Competition Between Seedlings of Three Native Hardwoods with Different Strategies and <i>Microstegium vimineum</i> Under Contrasting Light Regimes.
Silvana Marten-Rodriguez	Ecology	University of Maryland, College Park	Pollen or resource limitation in island plants: are specialized species more pollen limited than their generalized relatives?
Erin E. Mastrantonio	Physics/Astronomy	University of Virginia	A New Approach to High Energy Neutrino Detection by Means of the Askaryan Effect
Michi Matsukura	Psychology	University of Iowa	The Nature of Space-Invariant Object-Based Attention
Lisa E. Mayhew	Petrology/Geochemistry	University of Idaho	Microbial populations in extreme environments: investigations and characterizations of the geochemistry and microbiology of Galápagos Island fumaroles

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Jolly Mazumdar	Cell Biology/Biochemistry	University of Georgia	The Functional Analysis of the Fatty Acid Biosynthesis Pathways in the Apicomplexan Parasite, <i>Toxoplasma gondii</i>
Sean P. McBride	Physics/Astronomy	Miami University Ohio	Study of Displacive Phase Transition in Zircon and Hafnon
Thomas A. McCloskey	Cell Biology/Biochemistry	University of California-Santa Barbara	From worms to humans: examining the mechanism by which the conserved apoptotic suppressor ICD-3 acts
Tricia L. Meredith	Physiology/Functional Morphology	Florida Atlantic University	Olfaction in two shark species
Elisabeth A. Mills	Physics/Astronomy	Indiana University - Bloomington	A Compositional Analysis of the Billion-Year-Old Open Cluster NGC6811, its Constituent Stars and the Galaxy in Which it Resides
Jorge A. Montenegro	Anthropology	Southern Illinois University-Carbondale	Interregional Interaction and Sociopolitical Change on the Peruvian Far North Coast
Rosa A. Moscarella	Systematics/Evolutionary Biology	Michigan State University	Genetic consequences of climate change on <i>Peromyscus leucopus noveboracensis</i> 2: analysis of spatial genetic structure
Samuel Mutiti	Hydrology/Geomorphology	Miami University Ohio	Determining the susceptibility of drinking water sources to virus contamination: effectiveness of river bank filtration
Brian Niebergal	Physics/Astronomy	University of Calgary	Synchrotron emission from Special Relativistic Magneto-HydroDynamic (SRMHD) simulations of pulsar wind nebulae.
Mary I. O'Connor	Ecology	University of North Carolina at Chapel Hill	Does omnivory drive the cascading effects of diverse predator assemblages on plant community diversity and biomass?

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Brigid C. O'Donnell	Systematics/Evolutionary Biology	University of Connecticut	Gill Development in Mayflies: A Molecular Perspective on Appendage Development in a Non-Model Insect
Lucretia E. Olson	Behavioral Ecology	University of California-Los Angeles	Fitness consequences of solitary versus group living for male yellow-bellied marmots (<i>Marmota flaviventris</i>)
Shawn C. Oppegard	Engineering	Illinois Wesleyan University	The Role of Transitional Shear Stress in the Development of Intimal Hyperplasia in Arterio-Venous Grafts.
Miguel A. Pabon	Cell Biology/Biochemistry	Utah State University	Stereochemistry of Proton Addition to a N ₂ analog Catalyzed by γ -Val ^{Ala} Nitrogenase: A 2D-NMR (COSY) Structural Study.
Emily M. Peterman	Petrology/Geochemistry	University of California-Santa Barbara	Refining Monazite Petrochronology as a Tool for Understanding Tectonic Processes
Lori Pfaff	Ecology	Baylor University	Determination of the Effects of Apicomplexan Parasitism (<i>Ascogregarina</i>) on the Vector Mosquitoes <i>Aedes aegypti</i> and <i>Aedes albopictus</i> .
William L. Powell	Physics/Astronomy	Texas Tech University	Globular Star Cluster Tidal Streams: An Observational Study
Jill C. Preston	Systematics/Evolutionary Biology	University of Missouri-St. Louis	Duplication and diversification of APETALA1/FRUITFULL-like genes in grasses (Poaceae)
Audrey D. Reznik-Jose	Petrology/Geochemistry	San Diego State University	Molybdenum Isotopes as an Indicator of Past Changes in the Redox Conditions of the Santa Barbara Basin, California

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Julie P. Rieder	Ecology	Utah State University	Does the invasive annual yellow starthistle (<i>Centaurea solstitialis</i>) self-fertilize? Linking litter decomposition with inorganic soil nitrogen levels in the field
Dustin R. Rubenstein	Behavioral Ecology	Cornell University	Habitat quality and extrapair paternity in a plural cooperative breeder
Justin E. Ruffin	Engineering	Unknown Institution	Investigation of a Fluidized-Bed Alkaline Fuel Cell Electrode Utilizing PFC Emulsions
Ashley J. Ruiter	Physics/Astronomy	New Mexico State University	Gravitational Waves - What Will We See With LISA?
Mor Salomon-Botner	Behavioral Ecology	Ben-Gurion University of the Negev	Cooperative brood-care in the social spider <i>Stegodyphus dumicola</i> (Araneae, Eresidae)
Kristine M. Schad	Behavioral Ecology	University of Central Florida	Benefits of tree calls in the pinewoods treefrog (<i>Hyla femoralis</i>)
Robert L. Schubert	Anthropology	Ohio State University	Regional Variation in Positional Behavior and Skeletal Morphology in Two Populations of Japanese Macaque (<i>Macaca fuscata</i>)
Erik A. Scott	Tectonics/Geophysics	Central Washington University	Identifying and dating the penultimate earthquake along the Owens Valley fault, California
Brent J. Sewall	Ecology	University of California-Davis	Foraging theory and primate frugivores: An empirical study in northern Madagascar
Kimberly A. Sewright	Physiology/Functional Morphology	University of Massachusetts Amherst	HGF/c-met Binding in Satellite Cells During Skeletal Muscle Regeneration
Christopher Shacklady	Chemistry	State University of West Georgia	Sonophotolytic degradation of azo-dyes
Juan Carlos Silva	Paleontology/Sedimentation	University of Tennessee-Knoxville	Modeling changes in global oxygen levels during the lower Paleozoic explosion of animal life

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Sonal Singhal	Behavioral Ecology	Washington University in St. Louis	Sleeping Behavior in Anolis Lizards
Christopher R. Smith	Behavioral Ecology	University of Illinois at Urbana-Champaign	Harvester ant thermoregulation
Stephen F. Spear	Ecology	Washington State University	Evaluating Impacts of Timber Harvesting on a Stream-associated Amphibian using a Landscape Genetic Approach
Kelly R. Stewart	Ecology	Duke University	Defining critical interesting habitat for endangered leatherback sea turtles using Global Positioning Systems and Argos satellites.
Timothy D. Swain	Systematics/Evolutionary Biology	Florida State University	The evolution of zoanthid symbioses
Debarati M. Tagore	Chemistry	Yale University	Protein Recognition by Dynamic Combinatorial Libraries of Bivalent Oligonucleotide-linked Organic Fragments
Mizuki Takahashi	Ecology	University of Memphis	Phylogeography and the role of life cycle polyphenism in the ecological divergence of the Eastern Newt, <i>Notophthalmus viridescens</i>
Aron R. Taylor	Tectonics/Geophysics	California State University-Fullerton	Geomorphological evolution of San Juan Creek, Orange County, California: Implications for tectonic deformation of the Santa Ana Mountain foothills
Fatima Toor	Engineering	Princeton University	Silicon/Silcon-Germanium Quantum Cascade Lasers
Jaime M. Ullinger	Anthropology	Ohio State University	A Bioarchaeological Analysis of "Urbanism" in Early Bronze Age Southern Levant
Theodore A. Uyeno	Physiology/Functional Morphology	University of North Carolina at Chapel Hill	Testing a functional model of a new joint type: the octopus buccal mass muscle articulation

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Ilke N. van Hazel	Systematics/Evolutionary Biology	University of Toronto	Characterizing Bowerbird SWS1 Visual Pigments: A Comparative Analysis of Vertebrate UV/violet Vision.
Tatiana Vasquez	Behavioral Ecology	University of North Carolina at Chapel Hill	Direct and indirect benefits: Relative importance to a female's mate choice
Melissa S. Vasquez	Ecology	University of Puget Sound	The role of UV radiation in habitat selection of the seastar <i>Pisaster ochraceus</i> .
Eric L. Vawdrey	Chemistry	Utah State University	Pyrotechnic effects upon air particle composition
Catherine E. Wagner	Systematics/Evolutionary Biology	Cornell University	Genetic and Morphological Diversification among Lake Tanganyikan Endemics: Gastropods and Cichlid Fishes Compared
Robin W. Warne	Ecology	University of New Mexico	Life history strategies and the integration of pulsed resources at multiple timescales
Stephen M. Wedig	Computer Science/Mathematics	University of California-Los Angeles	A Human Inspired System for Computational Language Acquisition
Michael S. Wetz	Ecology	Oregon State University	Cycling of coastal phytoplankton derived dissolved and particulate organic matter
Rebecca J. White	Psychology	Ohio State University	The Influence of Automatic Processes upon Decision Making Strategy
Luke A. Wiley	Physiology/Functional Morphology	Southern Illinois University-Carbondale	Adrenergic receptor regulation of angiotensin-1 (Ang.1) gene expression in human retinal endothelial cells (hRECs)
David J. Williams	Engineering	Oklahoma State University	Ozone Transport Mechanisms within the Atmospheric Boundary Layer
Kelli D. Willson	Hydrology/Geomorphology	Louisiana State University-Baton Rouge	Microbially Mediated Carbonate Dissolution in the Edwards Aquifer of Central Texas

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Zoey P. Zahorodny	Physiology/Functional Morphology	University of North Carolina at Wilmington	Ontogeny and organization of acoustic lipid in the jaw fats of the bottlenose dolphin (<i>Tursiops truncatus</i>)
Jill A. Zalesny	Ecology	Iowa State University	Assessing Environmental Impacts of Landfill Leachate Irrigation During Phytoremediation with <i>Populus</i>
Mike J. Zawaski	Physics/Astronomy	University of Northern Colorado	A Survey of Inca Monuments to Identify Possible Astronomical Alignments with Inca-Made and Natural Features
Leandro Zuberger	Computer Science/Mathematics	Universidad de Buenos Aires	Self similarity in Harmonic Analysis. Othonormal basis and frames in L^2 -fractal spaces.
Michael Zwolak	Physics/Astronomy	California Institute of Technology	Entanglement and Correlations Low-Dimensional Quantum Systems