Anthropology			
Name	Education Status	Institution	Study Title
Dylan Davis	Doctoral Candidate	Pennsylvania State University	Studying the Effects of Environmental Change on Human Settlement Behavior in Southwest Madagascar
Amber Jaeger	Masters Student	Arizona State University	Assessing the Facial Growth and Development of <i>Australopithecus africanu</i> s After Second Molar Eruption
Melissa Manus	Doctoral Candidate	Northwestern University	The Influence of the Social Environment on the Infant Skin Microbiome
Joshua Porter	Undergraduate Student	George Washington University	Reconstructing Paleoenvironments Using Quantitative Mesowear in East Turkana, Kenya
Hayley Roberts	Doctoral Candidate	Australian National University	The Babysitters Club: Hormonal Aspects of Non-parental Infant Care in Colobus guereza
Shasta Webb	Doctoral Candidate	University of Calgary	How Does the Gut Microbiome in a Long-lived Host Respond to Short-term Environmental Change?

Behavioral Ecology			
Name	Education Status	Institution	Study Title
Amanda Beckman	Doctoral Candidate	Texas A&M University-College Station	Struttin' with Two Brothers Versus Eight Cousins: Investigating How Relatedness Influences Cooperative Coalitions
José Garrido	Masters Student	Central Washington University	Comparative Ecology of Semi-urban and Wild Populations of Kinosternon chimalhuaca
Chelsea Martin	Doctoral Candidate	Loma Linda University	Social Buffering in Southern Pacific Rattlesnakes:Effects of Social Housing on Defensive Behaviors and Stress
Sereena Moore	Masters Student	McGill University	Changes in Neurogenesis Leading up to Fall Migration in Juvenile and Adult European Starlings Exposed to Chlorpyrifos, a Widely-used Organophosphate Pesticide
Stephanie Sanders	Undergraduate Student	Missouri State University	Chemical Cues
Laura Segura	Doctoral Candidate	University of Nebraska at Lincoln	Microhabitat-level Temperature Changes and Their Effects on Small Predatory Ectotherms
Bernardo Traversari	Masters Student	Washington State University	Importance of the Early Environment on Amphibian Development and Behavior: Applications for Head-start, Translocation, and Reintroduction Programs
Cara Webster	Undergraduate Student	University of Scranton	Army Ant Raiding as a Learning Tool for Bat Foraging Behavior
Rebecca Westwick	Doctoral Candidate	University of Kentucky	Allogrooming May Induce Immune Gene Expression as a Component of Social Immunity in the Western Honey Bee (<i>Apis mellifera</i>)

Grants-in-Aid of Research Awards -March 15, 2020 Grant Cycle

Behavioral Ecology (cont.)			
Name	Education Status	Institution	Study Title
			The Impacts of Boat Noise on Acoustic Courtship and Reproductive Success in the Plainfin
Mackenzie Woods	Masters Student	University of Victoria	Midshipman Fish

Cell Biology/Biochemistry	Cell Biology/Biochemistry			
Name	Education Status	Institution	Study Title	
Maria Izabel Costa de Novaes	Doctoral Candidate	Louisiana State University-Baton Rouge	Preventing Self-destruction: Role of Lipid Droplets in Toxin Resistance in a Fungal Plant Pathogen	
Maximillian Denys	Undergraduate Student	University of California-Riverside	Altered Activation of Social Brain Network After Maternal Transfer of Indoor Flame Retardant Toxicants	
Jennifer Ding	Doctoral Candidate	University of Chicago	Now You See Me, Now You Don't: The Retinal Encoding of Interrupted Motion Trajectories	
Ahmed Disouky	Doctoral Candidate	University of Illinois at Chicago	Human Adult Hippocampal Neurogenesis and Its Correlation With Cognitive Function	
Adam Faranda	Doctoral Candidate	University of Delaware	Pax6 Maintains Lens Epithelial Phenotype by Repressing Runx1 Expression	
Deepshila Gautam	Masters Student	East Tennessee State University	Characterization of Endocannabinoid Mutants in Early Land Plant, Physcomitrella patens	
Catherine Hoover	Undergraduate Student	Mansfield University of Pennsylvania	Identifying Novel Therapeutics for Arrhythmogenic Cardiomyopathy via a Molecular Band- Aid and an Antibody	
Meng Jia	Doctoral Candidate	University of Notre Dame	Investigating the roles of the Hippo pathway during retinal regeneration	
Cindy Kha	Doctoral Candidate	University of Nevada-Las Vegas	Bioelectrical Signals Regulate Vertebrate Eye Regeneration	
Angela Sophia Magahis	Undergraduate Student	Villanova University	Quantifying Anti-Tumor CTL Killer Activity in Ly-6A Gene knockout (Ly-6A-/-) Mice	
Dominic Mier	Masters Student	Oakland University	Elucidating the Role of an Armadillo Repeat Motif Protein 7 (ARMC7) in Splicing of Minor U12-Type Introns	
Shaili Patel	Doctoral Candidate	University of Delaware	Investigation of a New RNA-binding Protein Rbm24 Associated with Anophthalmia/Microphthalmia in Early Eye Development	
Jack Philp	Masters Student	Georgia Southern University	Agonistic and Antagonistic Interaction of 3,4,6 – Tri-substituted Pyradizines as Alpha-2 Adrenergic Ligands and Their Potential Clinical Use in Glaucoma Patients.	
Carolyn Remsburg	Doctoral Candidate	University of Delaware	Localization and Functional Role of miR-31 on Mitotic Spindles During Early Development	

Cell Biology/Biochemistry (cont.)			
Name	Education Status	Institution	Study Title
Valaria Torres	Undergraduate Student	Christian Brothers University	Characterization of WNT10B-Stromal Tumor Microenvironment (CD146 and MMP9) and
	Ondergraduate Student	Christian Diothers Oniversity	WNT10B-Epithelial Biomarkers (HMGA2-EZH2) in Highly Chemoresistant TNBC and
Casandra Walker	Doctoral Candidate	University of Southern California	Identification of the transcription factor Foxa3 as a major target of In Utero exposure to Low
Casandra Walker	Doctoral Candidate		Doses of Genistein and DEHP in Adult Rat Testis
T • TA7			Genome-Wide Association Study to Identify Genes Responsible for Fluopicolide Resistance
Li Wang	Doctoral Candidate	University of Georgia	in Natural Field Populations of Phytophthora capsici
Shirley Wu	Undergraduate Student	Johns Hopkins University	Investigating the Protective Role of Rhodopsin in Light-induced Retinal Degeneration
Xianlin Zou	Doctoral Candidate	Virginia Polytechnic Institute and State University	Investigation on How DNA Damage Causes Circadian Phase Resetting

Chemistry			
Name	Education Status	Institution	Study Title
Michelle Chen	Undergraduate Student	Northeastern University	Synthesis and Characterization of Hole Transporting Materials for Perovskite Solar Cells
Jesse Gordon	Doctoral Candidate	Johns Hopkins University	Light-Mediated O–O Cleavage at Nonheme Iron Centers for C–H Bond Functionalization
Kim Taylor	Undergraduate Student	Waynesburg College	Caspase-8 Activator Marine Natural Product as a Payload for a Novel Antibody-drug Conjugate Cancer Therapy
Furri Zhang	Doctoral Candidata	Northwestern University	Design and Fabrication of Zr-MOF/PEEK Membranes for the Electro-assisted Removal of Phosphate and Arsenate From Groundwater
Furui Zhang	Doctoral Candidate	Northwestern University	Phosphate and Arsenate From Groundwater

Climate Science			
Name	Education Status	Institution	Study Title
Carina Fish	Doctoral Candidate	University of California-Davis	Central California Current Regime Changes Over the Past Century as Told by Deep Sea Coral Geochemistry.
Catherine Nield	Masters Student	University of Cincinnati	Calibration of Land Snail Shell δ18O at High Arctic Tundra Biomes

Computer Science/Mathematics			
Name Education Status Institution Study Title			Study Title
			Analytic Streams for Sensory Data – Can Data Analytics be Streamed Alongside Sensory
Yasith Jayawardana	Doctoral Candidate	Old Dominion University	Data and Metadata to Build Efficient Data Pipelines?

Computer Science/Mathematics (cont.)			
Name	Education Status	Institution	Study Title
			Mining Electronic Health Records: An Association Between Pre-Operative Frailty and Post-
Anne Xuan-Lan Nguyen	Undergraduate Student	McGill University	Operative Outcomes in Older Patients of Ethnic-Minority Background Undergoing
			Glaucoma Surgery
William Unger	Doctoral Candidiate	Boise State University	Power Analysis of Base 3 SPN Ciphers

Conservation Biology			
Name	Education Status	Institution	Study Title
Abigail Dwire	Masters Student	Georgia Southern University	Home-range Size of Wintering Henslow's Sparrows (<i>Centronyx henslowii</i>) in Power Line Right-of-Ways
Lian Guo	Doctoral Candidate	University of Massachusetts Amherst	Understanding Differential Rates of Climate-driven Range Shifts in River Herring
Robert Hogg	Masters Student	California State University-Northridge	Quantifying Local Genetic Impacts of Habitat Loss and Urbanization on <i>Batrachoseps</i> <i>nigriventris</i> , the Black-bellied Slender Salamander, in Island and Mainland Systems, Southern California
Patricia Levasseur	Masters Student	University of Massachusetts Amherst	Evaluating the Value of Public Participation in Diamond-backed Terrapin Monitoring Using Visual Head Counts
Anna McPherran	Doctoral Candidate	Stony Brook University	Evaluating Past Population Changes of Caribbean Hutias with Genomics to Infer Causes of Extinction
Meghan Shea	Doctoral Candidate	Standford University	Advancing eDNA Monitoring of Marine Ecosystems Impacted by Ocean Acidification: A Coupled Biological and Chemical Approach to Assessing the California Current System
Jacqueline Staab	Masters Student	Appalachian State University	Using a Detection Dog to Locate, Then Map Alpine Bombus Nests in High-resolution Using Structure-from-Motion
Elise Stacy	Doctoral Candidate	University of Idaho	Evaluating Genetic Structure of Wolverines (<i>Gulo gulo</i>) in Northern Alaska: Populations on a Changing Landscape

Ecology			
Name	Education Status	Institution	Study Title
	Doctoral Candidate	Columbia University	How Does Soil Fertility Affect Foliar Nutrient Uptake and Leaching in a Humid Tropical
Palani Akani			Forest?
	Doctoral Candidate	Tulane University	Do Abiotic Conditions and Plant Population Genetics Structure Root Fungal Communities
Monica Brady			Across a Landscape?
Natalia Ershova	Doctoral Candidate	University of Chicago	Ecological Importance of Trematode Parasites in Intertidal Communities

Ecology (cont.)			
Name	Education Status	Institution	Study Title
Ilia Maria Ferzoco	Doctoral Candidate	University of Toronto at Mississauga	Impacts of Urbanization on Freshwater Insect Metacommunities
Alexander Goetz	Doctoral Candidate	In increasing of Demand	Quantifying Effects of Disturbance and Resource Availability on Tree Morphology Using
Alexander Goetz	Doctoral Candidate	University of Denver	Airborne Lidar
Wieteke Holthuijzen	Masters Student	Northern Illinois University	Hide and Seek: Uncovering the Diet and Ecological Effects of Invasive House Mice on
,			Islands
Kaitlyn Howell	Doctoral Candidate	University of Texas at Arlington	Testing the Connection between Brain Size and Survival in Novel Environments
Julia Joos	Doctoral Candidate	Ohio University	
			Thermal Ecology of Two Species of Desert Tortoises in Mexico, G. evgoodei and G. morafkai
Augustin Kalytiak-Davis	Undergraduate Student	College of William and Mary	Environmentally-Cued Hatching in Polyclad Flatworms
Uma Knaven	Undergraduate Student	University of Denver	Influence of Urbanization on Hybridization of Cottontail Rabbits
Daniel Malagon	Doctoral Candidate	Clemson University	Nested Metapopulations
Pariamin Distor	Doctoral Candidate	Florida State University	The Role of Digestive System Microbial Symbionts in Alleviating the Nutrient Loading
Benjamin Pluer			Stress of a Livebearing Fish, Heterandria formosa
Lagard Dading and	Masters Student	University of Central Arkansas	Effect of a Top Predator (Crotaphytus collaris) on Prey Populations, Community Structure,
Joseph Redinger			and Ecosystem Function in Ozark Glades
Tailor Directol	Doctoral Candidate	Georgetown University	How Does Sea Level Rise and Habitat Fragmentation Impact the Biotic Communities and
Tyler Rippel			Carbon Cycling of a Foundational Plant Species?
Nicholas Russo	Doctoral Candidate	University of California-Los Angeles	3D Canopy Structure Drives Seed Dispersal by Hornbills
			Mechanisms of Climate-mediated Effects on Intraspecific Torpor Profiles in Columbian
Rebecca Smith	Masters Student	University of Saskatchewan	Ground Squirrels (Urocitellus columbianus)
William Thomas	Doctoral Candidate	Stony Brook University	Epigenetics of a Unique Wintering Strategy in Sorex araneus.
Ellen Titus	Masters Student	East Carolina University	The Effect of Stochastic Pulsed Predation on a Simple Freshwater Ecosystem
			Long-term Wildfire, Environmental, and Societal Impacts of Annual Grass Invasion in the
Claire Tortorelli	Doctoral Candidate	Oregon State University	Inland Northwest
William Weber	Doctoral Candidate	University of Maryland, College Park	Understanding How Social Dynamics Drive Variation in Male Fertility
			Future of Periglacial Landscape: Alpine Ecosystems and Deglaciation in the Tropical Andes
Anais Zimmer	Doctoral Candidate	University of Texas at Austin	and French Alps

Engineering			
Name	Education Status	Institution	Study Title
Etukessien Akpan	Doctoral Candidate	Ahmadu Bello University	Suitability of Zeolite Reinforced Catfish Bones Derived Hydroxyapatite for Biomedical Applications

Engineering (cont.)			
Name	Education Status	Institution	Study Title
Gretchen Baker	Doctoral Candidate	Ohio State University	Influence of Naturalistic Child Postures on Belt Fit in Belt-Positioning Booster Seats
Vin on u II.	Destand Can didate		Dose-controllable and Light-activated Biodegradable Drug Delivery Implants for Posterior
Xingyu He	Doctoral Candidate	University of Cincinnati	Eye Diseases Treatment
Yusen Pei	Undergraduate Student	North Carolina State University	Solar Energy Harvesting by Transparent Organic Solar Cells
Natalia Zappernick	Masters Student	Ohio State University	Techno-Economic Analysis of Aquaponics System

Hydrology/Geomorpohology			
Name Education Status Institution Study Title			
Jacob Clyne	Masters Student	Ohio State University	A Dynamic Water Table and its Impact on Water Quality, Microbial Diversity, and CO2 Efflux
Rebecca Talbot	Masters Student	Portland State University	Spatial and Seasonal Variations of Microplastic Concentrations in Oregon's Freshwater

Paleontology/Sedimentation			
Name	Education Status	Institution	Study Title
		Doctoral Candidate University of Cincinnati	Testing Dietary Stress as a Contributor to end-Pleistocene Horse Extinction in North
Abigail Kelly	Doctoral Candidate		America
Anik Regan	Masters Student	University of Georgia	Sequence-stratigraphic Control on the Continental Fossil Record: a Test in the Judith River Fo
Elena Stiles D		I I niversity of Washington	Linking Cordilleran Uplift to Landscape Aridification in the Northeastern Andes using
	Doctoral Candidate		Phytolith Analysis

Petrology/Geochemistry				
Name	Education Status	Institution	Study Title	
Elliot Chang D	Doctoral Candidate	California: University of California-Berkeley	Phosphodiester Functional Groups on Bacterial Surfaces: A New Mechanistic Understanding	
			of Rare Earth Metal Transport in the Environment	
			Assessing a Paired Hydrogen and Oxygen Isotope Approach to Track Evaporation for	
Megan Corcoran	Doctoral Candidate	Candidate University of Cincinnati	Paleoclimate Studies	

Physics/Astronomy			
Name	Education Status	Institution	Study Title
Dylan Dutton	Doctoral Candidate	University of North Carolina at Chapel Hill	Measuring Hubble's Constant from Optical Counterparts of Gravitational Wave Events
Christian Lockwood	Undergraduate	Williams College	Imaging and Analysis of the December 14, 2020, Total Solar Eclipse
Melissa Morris	Doctoral Candidate	University of Wisconsin-Madison	Characterizing Gas in Galaxy Groups Using Radio Galaxies with Bent Jets

Physics/Astronomy (cont.)				
Name Education Status Institution Study Title				
Anthony Taylor	Doctoral Candidate	University of Wisconsin-Madison	Narrowband Selection and Spectroscopic Analysis of z=5.7-6.6 Lyman Alpha Emitters	

Physiology/Functional Morphology			
Name	Education Status	Institution	Study Title
Kailie Batsche	Masters Student	George Washington University	Postcranial Variation in Mountain Gorilla Limb Bones
Natalie Fischer	Doctoral Candidate	University of California-Riverside	Exploring the Metabolic Mechanisms Underlying Wild Bumble Bee Foraging Behaviors
Madison Honer	Masters Student	Saint Joseph's University	3D-Printed Microfluidic Sorting of Sleeping Caenorhabditis elegans
Jordan Olenginski	Doctoral Candidate	Coint Loonah's Hainmaite	A CRISPR Approach for Studying G-protein Coupled Receptor Signaling in Caenorhabditis
Jordan Olenginski	Doctoral Calificate	Saint Joseph's University	elegans
Santoshi Ramachandran Doctoral Candic	Doctoral Candidate		Role of Superior Colliculus in Fixation Preference During a Delayed Saccade Task in
	Doctoral Califidate	University of Houston	Strabismic Nonhuman Primates
Jeffrey Spear	Doctoral Candidate	New York University	Integration of Suspension-related Traits in Hominoids
			Imaging Astrocyte Activity in the Medial Prefrontal Cortex During Behavior Using
Tammy Wang	Undergraduate Student	Vassar College	Miniscopes

Psychology	Psychology			
Name	Education Status	Institution	Study Title	
			Blood Transfusion from Young Wildtype Mice Alters the Behavior and Neuropathology of	
Rachel Barkey	Doctoral Candidate	George Mason University	Aged Alzheimer's mice with hTau	
Les Debres de sí	Maalana Chadamt	L'aircontine a Carache Elani da	Differentially Expressed Genes Following Glucocorticoid Exposure in Microglia as Potential	
Jan Dahrendorff	Masters Student	University of South Florida	Biomarkers of PTSD	
		Kansas State University	Modeling Prodromal Stage Schizophrenia Using a Novel Devaluation Task to Detect Neural	
Caitlin McLean	Undergraduate Student		Compensation	
	Doctoral Candidate	University of California-Davis		
Angela Nazarian			Long-term Memory for Nostalgic Stimuli Across the Lifespan: An Examination of Episodic	
			and Semantic Memory Using Naturalistic Stimuli Presented Across Three Modalities	
Tim Tang		Arizona State University	How Comparison Warps Memory: Decoding Similarity Judgment Bias in Visual Working	
Tim Tang	Doctoral Candidate		Memory	
Dish and Mand	Destand Can didate	Poctoral Candidate University of Wisconsin-Milwaukee	Neurocognitive Mechanisms Underlying the Interaction Between Anxiety, Cognitive	
Richard Ward	Doctoral Candidate		Control, and Implicit Racial Bias	

Systematics/Evolutionary Biology			
Name	Education Status	Institution	Study Title
Tashua Andanaan	Masters Student	Coordin Coordh ann University	Stingray Germs and Worms: Diversity and Interaction of the Gut Microbiome and Helminth
Joshua Anderson	Masters Student	Georgia Southern University	Community
Natalie Claunch	Doctoral Candidate	University of Florida	Determining Phylogeography of an Invasive Lizard with Rapid Range Expansion
тт			Differential Expression Between Parasitic and Free-living Life Stages of Edwardsiella lineata
Joanna Lee	Doctoral Candidate	Boston University	Anemone for Insights in Evolution of Parasitism
Elena Loke	Masters Student	Northwestern University	Incorporating Phased Alleles to Reconstruct a Recent and Rapid Radiation
Rhett Rautsaw	Doctoral Candidate	Clemson University	Testing the Influence of Competition on Venom Evolution in Sky-island Rattlesnakes
Jill Sanderson	Doctoral Candidate	University of Toronto	The Evolution of Signal Complexity in a Diverse Tropical Lizard Radiation

Tectonics/Geophysics			
Name	Education Status	Institution	Study Title
I D'I	Masters Student	Lehigh University	Novel Application of Anisotropy of Magnetic Susceptibility (AMS) measurements to
James Fisher			constrain an extensional front in the Central Apennines, Italy
Dylan Vasey Do	Doctoral Candidate U	University of California Davis	On the Hunt for an Enigmatic Suture in the Greater Caucasus: Using Provenance of Jurassic-
			Cretaceous Sedimentary Rocks to Test the Dizi Fault

rmation (Campanian) of North-Central Montana