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

Arizona			
Name	Education Status	Institution	Study Title
	Masters Student	Arizona State University	Assessing the Facial Growth and Development of Australopithecus
Amber Jaeger			africanus After Second Molar Eruption
Tim Tang	Doctoral Candidate	Arizona State University	How Comparison Warps Memory: Decoding Similarity Judgment Bias
			in Visual Working Memory

Arkansas			
Name	Education Status	Institution	Study Title
			Effect of a Top Predator (Crotaphytus collaris) on Prey Populations,
Joseph Redinger	Masters Student	University of Central Arkansas	Community Structure, and Ecosystem Function in Ozark Glades

California	California			
Name	Education Status	Institution	Study Title	
			Phosphodiester Functional Groups on Bacterial Surfaces: A New	
Elliot Chang	Doctoral Candidate	California: University of California-Berkeley	Mechanistic Understanding of Rare Earth Metal Transport in the	
			Environment	
Marianilian Dansa	I I double desta Chadant	University of California Diversida	Altered Activation of Social Brain Network After Maternal Transfer of	
Maximillian Denys	Undergraduate Student	University of California-Riverside	Indoor Flame Retardant Toxicants	
			Exploring the Metabolic Mechanisms Underlying Wild Bumble Bee	
Natalie Fischer	Doctoral Candidate	University of California-Riverside	Foraging Behaviors	
Carina Fish	Doctoral Candidate	University of California-Davis	Central California Current Regime Changes Over the Past Century as	
Carilla Fisit	Doctoral Candidate	Oniversity of Camornia-Davis	Told by Deep Sea Coral Geochemistry.	
			Social Buffering in Southern Pacific Rattlesnakes:Effects of Social	
Chelsea Martin	Doctoral Candidate	Loma Linda University	Housing on Defensive Behaviors and Stress	
			Long-term Memory for Nostalgic Stimuli Across the Lifespan: An	
Angela Nazarian	Doctoral Candidate	University of California-Davis	Examination of Episodic and Semantic Memory Using Naturalistic	
-			Stimuli Presented Across Three Modalities	

California (cont.)			
Name	Education Status	Institution	Study Title
			Ocean Acidification: A Coupled Biological and Chemical Approach to
Meghan Shea	Doctoral Candidate	Standford University	Assessing the California Current System
			On the Hunt for an Enigmatic Suture in the Greater Caucasus: Using
			Provenance of Jurassic-Cretaceous Sedimentary Rocks to Test the Dizi
Dylan Vasey	Doctoral Candidate	University of California-Davis	Fault
			Identification of the transcription factor Foxa3 as a major target of In
Casandra Walker	Doctoral Candidate	University of Southern California	Utero exposure to Low Doses of Genistein and DEHP in Adult Rat
			Testis

Colorado				
Name	Education Status	Institution	Study Title	
Alexander Goetz	Doctoral Candidate	L Distorcity of Dongor	Quantifying Effects of Disturbance and Resource Availability on Tree Morphology Using Airborne Lidar	
Uma Knaven	Undergraduate Student	University of Denver	Influence of Urbanization on Hybridization of Cottontail Rabbits	

Delaware			
Name	Education Status	Institution	Study Title
Adam Faranda	D 1 10 111	H: ' (D)	Pax6 Maintains Lens Epithelial Phenotype by Repressing Runx1
	Doctoral Candidate	University of Delaware	Expression
Shaili Patel	Doctoral Candidate	University of Delaware	Investigation of a New RNA-binding Protein Rbm24 Associated with Anophthalmia/Microphthalmia in Early Eye Development
Carolyn Remsburg	Doctoral Candidate	University of Delaware	Localization and Functional Role of miR-31 on Mitotic Spindles During Early Development

District of Columbia			
Name	Education Status	Institution	Study Title
Kailie Batsche	Masters Student	George Washington University	Postcranial Variation in Mountain Gorilla Limb Bones
Joshua Porter	Undergraduate Student	George Washington University	Reconstructing Paleoenvironments Using Quantitative Mesowear in
Joshua Forter			East Turkana, Kenya
Tyler Rippel	Doctoral Candidate	Georgetown University	How Does Sea Level Rise and Habitat Fragmentation Impact the Biotic
			Communities and Carbon Cycling of a Foundational Plant Species?

Florida			
Name	Education Status	Institution	Study Title
Benjamin Pluer	Doctoral Candidate	Florida State University	The Role of Digestive System Microbial Symbionts in Alleviating the Nutrient Loading Stress of a Livebearing Fish, Heterandria formosa
Natalie Claunch	Doctoral Candidate	University of Florida	Determining Phylogeography of an Invasive Lizard with Rapid Range Expansion
Jan Dahrendorff	Masters Student	University of South Florida	Differentially Expressed Genes Following Glucocorticoid Exposure in Microglia as Potential Biomarkers of PTSD

Georgia	Georgia			
Name	Education Status	Institution	Study Title	
Alaine il Decim	Martana Charland	Consider Constitution Haring and	Home-range Size of Wintering Henslow's Sparrows (Centronyx	
Abigail Dwire	Masters Student	Georgia Southern University	henslowii) in Power Line Right-of-Ways	
			Agonistic and Antagonistic Interaction of 3,4,6 – Tri-substituted	
Jack Philp	Masters Student	Georgia Southern University	Pyradizines as Alpha-2 Adrenergic Ligands and Their Potential	
			Clinical Use in Glaucoma Patients.	
Toolers Anderson	Mastana Chadant	Coancia Couth and I Inicancity	Stingray Germs and Worms: Diversity and Interaction of the Gut	
Joshua Anderson	Masters Student	Georgia Southern University	Microbiome and Helminth Community	
			Genome-Wide Association Study to Identify Genes Responsible for	
Li Wang	Doctoral Candidate	University of Georgia	Fluopicolide Resistance in Natural Field Populations of Phytophthora	
			capsici	
Anik Regan	Masters Student	University of Georgia	Sequence-stratigraphic Control on the Continental Fossil Record: a Test	

Idaho			
Name	Education Status	Institution	Study Title
El: C:	D (10 11)	TT : (T1.1	Evaluating Genetic Structure of Wolverines (Gulo gulo) in Northern
Elise Stacy	Doctoral Candidate	University of Idaho	Alaska: Populations on a Changing Landscape
William Unger	Doctoral Candidiate	Boise State University	Power Analysis of Base 3 SPN Ciphers

Illinois	Illinois			
Name	Education Status	Institution	Study Title	
Innaise Dina	Do storel Con di data	I Initiagnity of Chicago	Now You See Me, Now You Don't: The Retinal Encoding of	
Jennifer Ding	Doctoral Candidate	University of Chicago	Interrupted Motion Trajectories	
Alamad Diagram	Destand Condidate	Hairmanian (Illimain at Chiana	Human Adult Hippocampal Neurogenesis and Its Correlation With	
Ahmed Disouky	Doctoral Candidate	University of Illinois at Chicago	Cognitive Function	
Natalia Ershova	Doctoral Candidate	University of Chicago	Ecological Importance of Trematode Parasites in Intertidal Communities	
TA7" (1 TT 1:1 "	M. C. L.	N. d. III II	Hide and Seek: Uncovering the Diet and Ecological Effects of Invasive	
Wieteke Holthuijzen	Masters Student	Northern Illinois University	House Mice on Islands	
Flore Lele	Martana Chadana	Neathern III.	Incorporating Phased Alleles to Reconstruct a Recent and Rapid	
Elena Loke	Masters Student	Northwestern University	Radiation	
Malian Manua	Destand Condidate	NI-others to our III-learning	The Influence of the Social Environment on the Infant Skin	
Melissa Manus	Doctoral Candidate	Northwestern University	Microbiome	
Furui Zhang	Doctoral Candidate	Northwestern University	Design and Fabrication of Zr-MOF/PEEK Membranes for the Electro-	
<u> </u>			assisted Removal of Phosphate and Arsenate From Groundwater	

Indiana			
Name	Education Status	Institution	Study Title
Meng Jia	Doctoral Candidate	University of Notre Dame	Investigating the roles of the Hippo pathway during retinal regeneration

Kansas			
Name	Education Status	Institution	Study Title
California Mariana	Hadaman Arata Chadami	V Clata II	Modeling Prodromal Stage Schizophrenia Using a Novel Devaluation
Caitlin McLean	Undergraduate Student	Kansas State University	Task to Detect Neural Compensation

Louisiana			
Name	Education Status	Institution	Study Title
M : I 1 10 : 1 N	Doctoral Candidate	Ii.i Clata III.iit. Data D	Preventing Self-destruction: Role of Lipid Droplets in Toxin Resistance
Maria Izabel Costa de Novaes		Louisiana State University-Baton Rouge	in a Fungal Plant Pathogen
Monica Brady	Doctoral Candidate	Tolono Haironita	Do Abiotic Conditions and Plant Population Genetics Structure Root
		Tulane University	Fungal Communities Across a Landscape?

Maryland			
Name	Education Status	Institution	Study Title
Jesse Gordon	Doctoral Candidate	Johns Hopkins University	Light-Mediated O–O Cleavage at Nonheme Iron Centers for C–H Bond Functionalization
Shirley Wu	Undergraduate Student	Johns Hopkins University	Investigating the Protective Role of Rhodopsin in Light-induced Retinal Degeneration
William Weber	Doctoral Candidate	University of Maryland, College Park	Understanding How Social Dynamics Drive Variation in Male Fertility

Massachusetts			
Name	Education Status	Institution	Study Title
Michelle Chen	Undergraduate Student	Northeastern University	Synthesis and Characterization of Hole Transporting Materials for Perov
Lian Guo	Doctoral Candidate	University of Massachusetts Amherst	Understanding Differential Rates of Climate-driven Range Shifts in Rive
Datainia I assessan	Masters Student	This against of Massachusette Auch aget	Evaluating the Value of Public Participation in Diamond-backed
Patricia Levasseur		University of Massachusetts Amherst	Terrapin Monitoring Using Visual Head Counts
Joanna Lee	Doctoral Candidate	Boston University	Differential Expression Between Parasitic and Free-living Life Stages
			of Edwardsiella lineata Anemone for Insights in Evolution of Parasitism
Christian Lockwood	Undergraduate	Williams College	Imaging and Analysis of the December 14, 2020, Total Solar Eclipse

Michigan			
Name	Education Status	Institution	Study Title
Dominic Mier	Masters Student	Oakland University	Elucidating the Role of an Armadillo Repeat Motif Protein 7 (ARMC7)
	Wasters Student	Oakiand Oniversity	in Splicing of Minor U12-Type Introns

Missouri			
Name	Education Status	Institution	Study Title
Stephanie Sanders	Undergraduate Student	Missouri State University	Chemical Cues

Nebraska			
Name	Education Status	Institution	Study Title
I a come Caracoma	Destand Condidate	Hallower to a CN describe at Linear to	Microhabitat-level Temperature Changes and Their Effects on Small
Laura Segura	Doctoral Candidate	University of Nebraska at Lincoln	Predatory Ectotherms

Nevada			
Name	Education Status	Institution	Study Title
Cindy Kha	Doctoral Candidate	University of Nevada-Las Vegas	Bioelectrical Signals Regulate Vertebrate Eye Regeneration
New York			
Name	Education Status	Institution	Study Title
Palani Akani	Doctoral Candidate	Columbia University	How Does Soil Fertility Affect Foliar Nutrient Uptake and Leaching in
Palani Akani	Doctoral Candidate	Columbia University	a Humid Tropical Forest?
A MDl	De de mil Com 1: 1-1-	Change Board, Hair and the	Evaluating Past Population Changes of Caribbean Hutias with
Anna McPherran	Doctoral Candidate	Stony Brook University	Genomics to Infer Causes of Extinction
Jeffrey Spear	Doctoral Candidate	New York University	Integration of Suspension-related Traits in Hominoids

Identifying Ceramic Production within Virginia's Shenandoah Valley Imaging Astrocyte Activity in the Medial Prefrontal Cortex During

Behavior Using Miniscopes

Stony Brook University

Vassar College

William Thomas

Tammy Wang

Doctoral Candidate

Undergraduate Student

North Carolina			
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 Gravitation
Yusen Pei	Undergraduate Student	North Carolina State University	Solar Energy Harvesting by Transparent Organic Solar Cells
Jacqueline Staab N	Martana Chadana	Masters Student Appalachian State University	Using a Detection Dog to Locate, Then Map Alpine Bombus Nests in
	Masters Student		High-resolution Using Structure-from-Motion
Ellen Titus	Masters Student	East Carolina University	The Effect of Stochastic Pulsed Predation on a Simple Freshwater Ecosys

Ohio			
Name	Education Status	Institution	Study Title
Gretchen Baker	Doctoral Candidate	Ohio State University	Influence of Naturalistic Child Postures on Belt Fit in Belt-Positioning Be
Manage Canadan	Do stonel Con didete	I Indiana situa of Cinaina ati	Assessing a Paired Hydrogen and Oxygen Isotope Approach to Track
Megan Corcoran	Doctoral Candidate	University of Cincinnati	Evaporation for Paleoclimate Studies
Jacob China	Masters Student	Ohio Chaho I Inizzansity	A Dynamic Water Table and its Impact on Water Quality, Microbial
Jacob Clyne	Masters Student	Ohio State University	Diversity, and CO2 Efflux
Vin and Ha	Do stonel Con didete	H	Dose-controllable and Light-activated Biodegradable Drug Delivery
Xingyu He	Doctoral Candidate	University of Cincinnati	Implants for Posterior Eye Diseases Treatment
Iulia Ioos	Doctoral Candidate	Ohio University	Thermal Ecology of Two Species of Desert Tortoises in Mexico, G.
Julia Joos	Doctoral Candidate		evgoodei and G. morafkai
Alaineil Malla	Do stonel Con didete	I Indiana site of Cincinn ati	Testing Dietary Stress as a Contributor to end-Pleistocene Horse
Abigail Kelly	Doctoral Candidate	University of Cincinnati	Extinction in North America
Catherine Nield	therine Nield Masters Student	University of Cincinnati	
Cauterine intera	masters student	Oniversity of Chichinati	Calibration of Land Snail Shell $\delta18O$ at High Arctic Tundra Biomes
Natalia Zappernick	Masters Student	Ohio State University	Techno-Economic Analysis of Aquaponics System

Oregon			
Name	Education Status	Institution	Study Title
Rebecca Talbot	Masters Student	Portland State University	Spatial and Seasonal Variations of Microplastic Concentrations in Orego
Claire Tortorelli	Doctoral Candidate	l Oregon State University	Long-term Wildfire, Environmental, and Societal Impacts of Annual Grass Invasion in the Inland Northwest

Pennsylvania	Pennsylvania			
Name	Education Status	Institution	Study Title	
Dadan Darria	Doctoral Candidate	Dana andronia Chata Hairragaite	Studying the Effects of Environmental Change on Human Settlement	
Dylan Davis	Doctoral Candidate	Pennsylvania State University	Behavior in Southwest Madagascar	
James Fisher	Masters Student	I alciale I Indicancia	measurements to constrain an extensional front in the Central	
james risher	Masters Student	Lehigh University	Apennines, Italy	
Madison Honer	Masters Student	Saint Joseph's University	3D-Printed Microfluidic Sorting of Sleeping Caenorhabditis elegans	
C d · H	II. dans as desire Civiliani	Mansfield University of Pennsylvania	Identifying Novel Therapeutics for Arrhythmogenic Cardiomyopathy	
Catherine Hoover	Undergraduate Student		via a Molecular Band-Aid and an Antibody	

Pennsylvania (cont.)			
Name	Education Status	Institution	Study Title
Angela Sophia Magahis	Undergraduate Student	Villanova University	Quantifying Anti-Tumor CTL Killer Activity in Ly-6A Gene knockout (Ly-6A-/-) Mice
Jordan Olenginski	Doctoral Candidate	Saint Joseph's University	A CRISPR Approach for Studying G-protein Coupled Receptor Signaling in Caenorhabditis elegans
Kim Taylor	Undergraduate Student	Waynesburg College	Caspase-8 Activator Marine Natural Product as a Payload for a Novel Antibody-drug Conjugate Cancer Therapy
Cara Webster	Undergraduate Student	University of Scranton	Army Ant Raiding as a Learning Tool for Bat Foraging Behavior
South Carolina			
	Education Claim	Toothories	C(1T')(1.
Name	Education Status	Institution	Study Title
Daniel Malagon	Doctoral Candidate	Clemson University	Nested Metapopulations
Rhett Rautsaw	Doctoral Candidate	Clemson University	Testing the Influence of Competition on Venom Evolution in Sky-island

Tennessee				
Name	Education Status	Institution	Study Title	
Decretal Contain	Martine Challent	East Tangers Chala Hairmaile	Characterization of Endocannabinoid Mutants in Early Land Plant,	
Deepshila Gautam	Masters Student	East Tennessee State University	Physcomitrella patens	
			Characterization of WNT10B-Stromal Tumor Microenvironment	
Valaria Torres	The denome denote Charlent	Charieties Due the ene University	(CD146 and MMP9) and WNT10B-Epithelial Biomarkers (HMGA2-	
valaria Torres	Undergraduate Student Christian Brothers University EZH2) in Highly Chemoresistant	EZH2) in Highly Chemoresistant TNBC and Mouse Mammary Gland		
			Tumors.	

Texas			
Name	Education Status	Institution	Study Title
Amanda Beckman	Doctoral Candidate		Struttin' with Two Brothers Versus Eight Cousins: Investigating How Relatedness Influences Cooperative Coalitions
Kaitlyn Howell	Doctoral Candidate	University of Texas at Arlington	Testing the Connection between Brain Size and Survival in Novel Environments

Texas (cont.)			
Name	Education Status	Institution	Study Title
C . I . D . I . I	Doctoral Candidate	University of Houston	Role of Superior Colliculus in Fixation Preference During a Delayed
Santoshi Ramachandran			Saccade Task in Strabismic Nonhuman Primates
Anais Zimmer	Doctoral Candidate	University of Texas at Austin	Future of Periglacial Landscape: Alpine Ecosystems and Deglaciation
			in the Tropical Andes and French Alps

Virginia			
Name	Education Status	Institution	Study Title
Rachel Barkey	Doctoral Candidate	George Mason University	Blood Transfusion from Young Wildtype Mice Alters the Behavior and
			Neuropathology of Aged Alzheimer's mice with hTau
			Analytic Streams for Sensory Data – Can Data Analytics be Streamed
			Alongside Sensory Data and Metadata to Build Efficient Data
Yasith Jayawardana	Doctoral Candidate	Old Dominion University	Pipelines?
Augustin Kalytiak-Davis	Undergraduate Student	College of William and Mary	Environmentally-Cued Hatching in Polyclad Flatworms
Xianlin Zou	Doctoral Candidate	Virginia Polytechnic Institute and State University	Investigation on How DNA Damage Causes Circadian Phase Resetting

Washington				
Name	Education Status	Institution	Study Title	
T / C : 1	Masters Student	Central Washington University	Comparative Ecology of Semi-urban and Wild Populations of	
José Garrido			Kinosternon chimalhuaca	
El Cul	Doctoral Candidate	TI ' ' CTAT I' '	Linking Cordilleran Uplift to Landscape Aridification in the	
Elena Stiles		University of Washington	Northeastern Andes using Phytolith Analysis	
			Importance of the Early Environment on Amphibian Development and	
Bernardo Traversari	Masters Student	,	Behavior: Applications for Head-start, Translocation, and	
			Reintroduction Programs	

Wisconsin				
Name	Education Status	Institution	Study Title	
Melissa Morris	Doctoral Candidate	University of Wisconsin-Madison	Characterizing Gas in Galaxy Groups Using Radio Galaxies with Bent Je	
A rath over Tarriov	Doctoral Candidate Universi	This again of Microsoft Madican	Narrowband Selection and Spectroscopic Analysis of z=5.7-6.6 Lyman	
Anthony Taylor		University of Wisconsin-Madison	Alpha Emitters	
Richard Ward	Doctoral Candidate	University of Wisconsin-Milwaukee	Neurocognitive Mechanisms Underlying the Interaction Between	
			Anxiety, Cognitive Control, and Implicit Racial Bias	

International Grant Recipents by Country

Australia			
Name	Education Status	Institution	Study Title
Hayley Roberts	Doctoral Candidate	Australian National University	The Babysitters Club: Hormonal Aspects of Non-parental Infant Care in

Canada	Canada			
Name	Education Status	Institution	Study Title	
			Changes in Neurogenesis Leading up to Fall Migration in Juvenile and	
Sereena Moore	Masters Student	McGill University	Adult European Starlings Exposed to Chlorpyrifos, a Widely-used	
			Organophosphate Pesticide	
Anne Xuan-Lan Nguyen	Undergraduate	McGill University	Mining Electronic Health Records: An Association Between Pre- Operative Frailty and Post-Operative Outcomes in Older Patients of Ethnic-Minority Background Undergoing Glaucoma Surgery	
Jill Sanderson	Doctoral Candidate	University of Toronto	The Evolution of Signal Complexity in a Diverse Tropical Lizard Radiation	
Rebecca Smith	Masters Student	University of Saskatchewan	Mechanisms of Climate-mediated Effects on Intraspecific Torpor Profiles in Columbian Ground Squirrels (<i>Urocitellus columbianus</i>)	
Shasta Webb	Doctoral Candidate	University of Calgary	How Does the Gut Microbiome in a Long-lived Host Respond to Short-term Environmental Change?	
Mackenzie Woods	Masters Student	University of Victoria	The Impacts of Boat Noise on Acoustic Courtship and Reproductive Success in the Plainfin Midshipman Fish	

Nigeria			
Name	Education Status	Institution	Study Title
Et 1 · Al	Destand Condidate	A1 1 D II II ' '	Suitability of Zeolite Reinforced Catfish Bones Derived
Etukessien Akpan	Doctoral Candidate	Ahmadu Bello University	Hydroxyapatite for Biomedical Applications