

COAS RESEARCH DAY 2013 POSTER PRESENTERS

Disciplinary categories below refer to research field, not presenter's field of study

UNDERGRADUATE

NAME	MAJOR	TITLE	ADVISOR
ANTHROPOLOGY			
Brittany Handler	Anthropology	Hannah Freeman: A Colonial Wage Laborer in the 18th Century	Dr. Judith Storniolo
BIOLOGY/BIODIVERSITY, EARTH, AND ENVIRONMENTAL SCIENCE (BEES)			
Jillian Adair	Environmental Science	Molecular Phylogenetic Study of the Green Alga <i>Cylindrocapsa</i> (Zygnematophyceae)	Dr. Rick McCourt
Eric Balgobin	Biomedical Engineering	A Colorful History: Evolution of Color Theory	Dr. Abby Dominy
Katherine Berman	Biology	Optimization of Transposon Mutagenesis of <i>Synechococcus Elongatus</i> PCC 7942 for Identifying Components of a High-light Regulated Signal Transduction Pathway.	Dr. Shivanthi Anandan
Kevin Biallas and Lauren Donaghy	Environmental Science	Color Contrast as a Signaling Mechanism in the Diamondback Terrapin (<i>Malaclemys Terrapin</i>)	Dr. James Spotila
Lindsay Bushong	Environmental Studies	Urban Greening: An Organic Solution to Teenage Anxiety	Dr. Jaya Mohan
Allison Byrne	Environmental Science	Morphological Variation Across an Elevation Gradient in Two Amphibian Species from Bioko Island, Equatorial Guinea	Dr. Gail Hearn
Aqsaa Chaudry	Biology	Kinetic Identification of Membrane Transporters that Assist Transcellular Transport of P-gp Substrates Across Confluent Cell Monolayers	Dr. Joseph Bentz
Elliott Chiu	Biology/BEES	Chameleon Prey Selection: Implications for Survival and Conservation in Disturbed Habitats	Dr. Gail Hearn

Halle Choi	Biology	Government Interventions Lead to “Mardi Gras” Market Dynamics in an Urban Bushmeat Market	Dr. Gail Hearn
Katie D'Amelio	Biology	The Effect of Temperature Change on the Behavior of the Northern Pine Snake and Implications for Climate Change	Dr. Walter Bien
Stephen Dench	Environmental Science	Conservation Status of Monkeys at Moka, Bioko Island, Equatorial Guinea	Dr. Gail Hearn
Katherine DiAngelus	Biology	Diatom Flora of the Northern Barnegat Bay, New Jersey	Dr. Marina Potapova
Lia Domico	Environmental science	Storm Intensity and Weather Stations: The Importance of Weather Station Placement on Measurement Accuracy	Dr. Steven Pearson
Brendan Elias	Biology	Translation of Ribosomal Protein L4 in Neuronal Processes	Dr. Jeffery Twiss
Shayna Erickson	Biology	Diet Composition for <i>Trachemys scripta elegans</i> and <i>Pseudemys rubriventris</i> in Two Wetland Complexes	Dr. James Spotila
Stefanie Farrell	BEES	Genes and the Environment: Factors Causing Scute Anomalies in the Diamondback Terrapins (<i>Malaclemys Terrapin</i>)	Dr. James R. Spotila
Emma Fowler	Paleontology and Paleo-Art	Digital Reconstruction of a Juvenile <i>Hyposaurus</i> Braincase: Location of Major Nerve and Vessel Passageways	Dr. Kenneth Lacovara
Anna Gourlay	Environmental Sciences	Home Ranges of Reproductive Female Diamondback Terrapins in Barnegat Bay, New Jersey	Dr. James R. Spotila
Mackenzie Grapes	International Area Studies	Structure of the Bird Community in an Agriculture Matrix at Moka, Bioko Island, Equatorial Guinea	Dr. Gail Hearn
Johnathan Guest	Biology	Bigger claws are better: Interspecific and intraspecific competition for limited resources in two turtle species	Dr. James R. Spotila
Jason Haque	Environmental Science	Changes in Seasonal and Annual Vegetation Indicate Sedimentation Changes	Dr. Steven Pearson

Steven Hromada	Biology	Frog Distribution and Diversity along an Elevation Gradient near Moka, Bioko Island, Equatorial Guinea	Dr. Gail Hearn
John Hunyara	Biology	Regulation and Organization of the Actin Cytoskeleton by Septin 2 in Renal Cells	Dr. Elias Spiliotis
Sakshi Kaul	Biology	The Importance of Olfaction in Prey Detection by the Diamondback Terrapin	Dr. James R. Spotila
Tara Knox	Biology	Investigating the Molecular Cause of Hereditary Neuralgic Amyotrophy	Dr. Elias Spiliotis
Sravanthi Koduri	Biology	The Participation of Sp1 and p300 in Double Strand Break Repair Choice	Dr. Jane Clifford
Lindsey Kummerer	Biology	The Species Abundance Between Elevation Ranges and General Habitat Use of Galagos in Moka, Bioko Island, Equatorial Guinea	Dr. Jake Owens
Dimitri Madonis	Biomedical Engineering	Quantification and Potential Evolutionary Selection of Orange Pigments on the Terrapin	Dr. James R. Spotila
Raffaella Marano and Jacquelyn Garcia	Environmental Science	The Effects of Substrate Type on the Behavior and Movement of Pituophis Melanoleucus, the Northern Pine Snake	Dr. Dane Ward
Garrett Mayo	Biology	Pea Aphid Defensive Symbiont Dynamics in Response to Parasitoid Wasp	Dr. Jacob Russell
Drew McQuade and Katelynn Keen	Environmental Science	Site Fidelity and Social Behavior in the Diamondback Terrapin (Malaclemys Terrapin)	Dr. James R. Spotila
Andrea Messina	Biology	Pea Aphid, Acyrthosiphon Pisum, Symbiont Diversity over Time and Space.	Dr. Andrew Smith
Rickie Miglin and Kathy Tong	Psychology	The Quantification of Spectral Reflectance in Diamondback Terrapin Skin	Dr. James R. Spotila
Mohamad Noyal and Kaveesh Kutty	Biology	The Role of TCF4 in Development of Pitt Hopkins Syndrome in a Drosophila Model	Dr. Daniel Marendia

Varun Padmanaban	Biology	Kismet and TGF-B's Role in Axonal Pruning in a CHARGE Model Drosophila Fruit Fly	Dr. Daniel Marenda
Vivek Satyasi and Mark Killen	Biology	Characterization of EOAD Drosophila Melanogaster Model at the Synaptic Level Using Drosophila NMJ	Dr. Daniel Marenda
Shravan Savant	Biology	Characterization of Regenerating Thoracic Propriospinal Neurons after Spinal-Cord Injury	Dr. John D. Houle
Nazaneen Zahedi	Biology	Evolution of Brain Sensory Investment in Paper Wasps	Dr. Sean O'Donnell
CHEMISTRY			
Matthew McBride	Chemistry	Using the Abraham Model to Predict Organic Solubility to Determine a Recrystallization Solvent	Dr. Jean-Claude Bradley
Robert Wexler	Chemistry	The Role of Water in Surface Charge Transport on Tin Dioxide as Revealed by the Thermal Dependence of Conductance	Dr. Karl Sohlberg
COMMUNICATION			
Harrison Brown	Communication	Owen's Motives: Analysis of a Traitor	Dr. Deirdre McMahon
Brogan Piecara	International Area Studies	Scientists' Rhetorical Dilemma: Tell the Truth or Shame the Devil	Dr. Eva Thury
Diva Shetty	Communication	Role of Women in Rap Music	Dr. Eva Thury
ENGLISH			
Jessica Coulon	International Area Studies	New York City as Palimpsest: The Role of Palimpsest in the Narratives of Exiles	Dr. Gabriella Ibieta
Adria Leeper-Sullivan	English	U.S. Travel Writing Trends And The Future of Travel Writing	Dr. Eva Thury

Martin Leichter	Psychology	Opinions on Cormac McCarthy's <i>Child of God</i>	Dr. Eva Thury
Brittany MacLean	International Area Studies	Celebrating 40 Years of Painted Bride Quarterly: A Retrospective	Dr. Kathleen Volk Miller
Khushbu Patel	Psychology	Collaborative Autobiographical Writing: An Exploration of the Process	Dr. Rachel Wenrick
HISTORY			
David Ahern	History	Roosevelt and the Kingfish	Dr. Lloyd Ackert
Jessica Rodden	History	From Raw to Processed: Food Vendor Regulation in Philadelphia, 1880-1920	Dr. Lloyd Ackert
Kirsten Vannix	Biology	Questioning Authority: The Pursuit of Medical Knowledge Through Instrumentation and Illustrations	Dr. Lydia Pyne
Peter Yager	Anthropology	Neighborhood Attitudes and White Flight in Two Philadelphia Neighborhoods	Dr. Eva Thury
MATHEMATICS			
Ryan Wasson	Mathematics	The Normal Defect of Some Classes of Matrices	Dr. Hugo Woerdeman
Stephen Wolfe	Electrical Engineering	Determinant Distributions of Integer Matrices	Dr. Anatolii Grinshpan
Andrew Zigerelli	Mathematics	A Computational Application of Subdivision Surfaces to Biophysics	Dr. Thomas P.Y. Yu
PHILOSOPHY			
Eric Horton	Economics	Re: Reading Plato	Dr. Peter Amato
PHYSICS			

Pareshkumar Brahmbhatt	Physics	Compliance Control of MM-UAV in Experimental Test Platform	Dr. Luis Cruz Cruz
Kevin Burke	Physics	Examining Nearby Hot Jupiters for Transit Timing Variations	Dr. Cullen Blake
Mary Chessey	Physics	Mobile Apps for the Physics Classroom	Dr. Dave Goldberg
Bradley Daniel	Physics	Search for Neutrino-less Double Beta Decay Using Solid Xenon Source Detector	Dr. Michelle Dolinski
Michael DeMaria	Physics	Bolometer Design For Detecting Neutrinoless Double-Beta Decay in a Xenon Crystal	Dr. Michelle Dolinski
Marc Doyle	Physics	Multiple Band Gaps a Complex Oxide System	Dr. Luis Cruz Cruz
Wendy Harris	Physics	Simulating 3D Detector Array for Pencil Beam Proton Therapy	Dr. Derek Dolney
Christopher Kepics	Physics	Simulating Amyloid- β Folding Under Confinement	Dr. Luis Cruz Cruz
Mark Kondrla Jr.	Physics/ Mathematics	Radiobiological Optimization in Proton Radiotherapy	Dr. Alejandro Carabe-Fernandez
Nicholas Kruczek	Physics	The Effect of Amino Acid Substitutions K16A and K28A on Amyloid Beta-Protein Self-Assembly	Dr. Brigita Urbanc
Owen Montgomery	Physics	Rutherford Scattering and Improving the Gold Foil Experiment	Dr. Charles Lane
Nathan Thiem	Physics	Building a Liquid Xenon Time Projection Chamber for Xenon Purification Tests	Dr. Dolinski
Jacob Zettlemoyer	Physics	Develop and Evaluate the Use of Gated Photomultipliers for Muon Beam Composition Monitoring	Dr. Charles Lane

POLITICAL SCIENCE			
Douglas Hammond	Economics	A Blast from the Past: How Iceland Achieved its Economic Recovery	Dr. Eva Thury
PSYCHOLOGY			
Anthony Basilovecchio	Psychology	Military Veterans with PTSD and the Role of Social Support in Attitude toward Treatment	Dr. Arthur Nezu
Casey Burkard	Psychology	Juvenile Defendant Factors Related to Number of Probation Conditions Imposed	Dr. Naomi Goldstein
Diana D'Argenio	Psychology	Motivational Interventions for Sleep Disturbance among College Students	Dr. Jacqueline Kloss
Jenna Ebbecke	Psychology	Collegiate Substance Use: Evaluating the Risks through a Developmental Framework	Dr. Naomi Goldstein
Erika Foster	Psychology	Developmental Immaturity as a Moderator of the Relationship between Substance Use and Academic Performance among College Students	Dr. Naomi Goldstein
Allison Herens	Psychology	Juvenile Defendant Characteristics Associated with Pre-Adjudication Diversion	Dr. Naomi E.S. Goldstein
Mark Houck	Psychology	Juveniles' Capacities to Enter Guilty Pleas and Oversight of the Guilty Plea Process	Dr. Naomi Goldstein
Janna Howard	Psychology	Hedonic Hunger and Restrained Eating: An Examination of Their Effects on Consumption of Highly Palatable Snack Foods	Dr. Michael R. Lowe
Ariel Pollak	Psychology	Children's Willingness to Speak to Doctors: The Factor of Lexical Complexity	Dr. Meghan Marsac
Hela Saidi	Psychology	Psychological Digital Dependence and Anxiety in College Students	Dr. Dorothy Charbonnier
Anne Sekley	Psychology	Posttraumatic Growth as a New Perspective in the Aftermath of Sexual Assault	Dr. Pamela Geller

Ava Skolnik	Psychology	A Little Compliment Goes A Long Way: The Influence of Compliments on Perception of Character	Dr. Karol Osipowicz
Phillip Sylvester	Psychology	Examining the Relationships between Academic Excellence and Anxiety, Depression, and Intelligence	Dr. Maria Schultheis
Fritzi Thomas	Psychology	Prospective Memory and Multiple Sclerosis: Mood Can Make a Difference?	Dr. Maria Schultheis
Molly Tiedeken	Psychology	Alcohol Consumption and Perception in University Students	Dr. Naomi Goldstein

GRADUATE

BIOLOGY/BIODIVERSITY, EARTH, AND ENVIRONMENTAL SCIENCE (BEES)

Jasmine Alexander-Floyd	Biology	Identifying Physiological Modifiers of Protein Aggregation Toxicity	Dr. Tali Gidalevitz
Zachary Boles	BEES	Evidence of Extensive Scavenging/Predation by Late Cretaceous Marine Organisms from the Basal Hornerstown Formation, New Jersey, USA	Dr. Kenneth Lacovara
Karsten Chu	Physics	Smoluchowski Coagulation and Fragmentation: A Generalized Model for Protein Aggregation	Dr. Jian-Min Yuan
Drew Cronin	Biology	Looking for Lost Monkeys: Searching for Critically Endangered Red Colobus in a West African River Valley	Dr. Gail Hearn
Mitchell D'Rozario	Biology	Transgenic Model for Hereditary Spastic Paraplegia	Dr. Daniel Marenda
Alina Freire-Fierro	BEES	Infrageneric Classification of the Plant Genus Monnina (Polygalaceae)	Dr. Walter F. Bien
Yi Hu	Environmental science	Variation in Gut Communities across Diets and Colonies of the Ant Cephalotes Varians	Dr. Jacob Russell

Ashley Johnson	Biology	Increasing Tip60 HAT Levels Rescues Axonal Transport Defects and Associated Behavior Phenotypes in a Drosophila Alzheimer's Disease Model	Dr. Felice Elephant
Ashley Kalinski	Biology	Spatial Constraints for mRNA Targeting to PNS vs. CNS Axons	Dr. Jeffery Twiss
Patrick McLaughlin	Environmental Science	A Multi-Species Analysis of Chytridiomycosis Infection and Resistance in West-Central Africa	Dr. Gail W. Hearn
Zhou Meng	Biology	Comparison of P-gp Surface Densities and P-gp Elementary Kinetic Rate (Binding and Transport) Constants in Caco-2 and MDCKII-hMDR1 Cells	Dr. Joe Bentz
Derya Meral	Physics	Discrete Molecular Dynamics Study of Oligomer Formation by N-Terminally Truncated Amyloid β -Protein	Dr. Brigita Urbanc
Abby Mudd	BEES	Sticky Fingers: The Evolution and Mechanism of Larval Adhesive Structures in Ponerine Ants	Dr. Sean O'Donnell
Noga Neeman	BEES	Do Leatherback Turtles Shift their Nesting Seasons as a Response to Changes in Sea Surface Temperature?	Dr. Michael P. O'Connor
Jacob Owens	Biology	Extreme fallback foraging of the Bioko Island drill monkey (<i>Mandrillus leucophaeus poensis</i>) as a means of adapting to sub-optimal habitats.	Dr. Gail Hearn
Kevin P.W. Smith	BEES	Radio telemetry and the neonate ecology of the Northern Pinesnake (<i>Pituophis melanoleucus</i>)	Dr. Walter F. Bien
Ryan Rebozo	Environmental Science	The Influence of Land Management Practices on the Above and Below Ground Mutualisms of the Pine Barren Gentian (<i>Gentiana Autumnalis</i>) in New Jersey	Dr. Walter Bien
Anna S. Jaworski	Environmental Science	Drowned Forests and Buried Salt Marshes: Reconstructing Local-relative Sea Level Change along the Delaware River Estuary	Dr. Kenneth Lacovara
Elena Schroeter	Biology	Histology of Normal and Deformed Argentinean Titanosaur Femora	Dr. Kenneth Lacovara
Andrew Smith	Environmental Science	The Association between Pea Aphid Defensive Symbionts and Fungal Mortality under Natural Conditions	Dr. Jacob Russell

Marilyn Sobel	Environmental Science	Earth, Fire and Water: Resource Allocation in Rhynchospora Knieskernii (Cyperaceae)	Dr. Walter F. Bien
Paul Ullmann	Paleontology	Morphometric Exploration of the Evolution of Wide Gauge Features in Stylopodial Limb Elements of Titanosauriform Sauropods	Dr. Ken Lacovara
Kristyn Voegele	Paleontology	Reconstructions from Well-defined Muscle Scars in a Super-massive Titanosaurian Sauropod	Dr. Ken Lacovara
Dane Ward	Environmental Science	Estimating Population Densities from Radio-telemetry Data for the Northern Pine Snake in New Jersey	Dr. Walter F. Bien
Songjun Xu	Biology	An Epigenetic Role for Tip60 in Learning and Memory	Dr. Felice Elefant
COMMUNICATION			
Alison Novak	Communication, Culture, and Media	The Female Email: The Leadership and Discourses of Female Representations of the 2012 Obama Campaign	Dr. Ernest A. Hakanen
Melinda Sebastian	Culture & Communication	Hegemony, The Ulmer Scale, and Blind Item Reveals	Dr. Wes Shumar
HISTORY			
Steve O'Connor	Science, Technology, and Society	Access to Healthy Food in Philadelphia Neighborhoods: How Corner Stores Impact Food Choices	Dr. Christian Hunold
MATHEMATICS			
William King	Physics	Teaching Software Carpentry: Better Science through Science	Dr. Luis Cruz Cruz
PHYSICS			
Justin Bird	Physics	Clusters, Lensing, and Dark Matter Substructure Simulation	Dr. Dave Goldberg
Micholas D. Smith	Physics	Folding of Amyloid Beta Fragment 21-30 Mutants Under Aqueous-Ionic Environments	Dr. Luis R. Cruz Cruz

Edward Damon	Physics	Paraphoton Detection at Double Chooz	Dr. Jelena Maricic
Jeremie Doehla	Physics	Interplay of Superconductivity and Charge Density Wave in Cu_xTiSe_2 Single Crystals	Dr. Goran Karapetrov
Kelly Douglass	Physics	Metallicity of Void Dwarf Galaxies	Dr. Michael Vogeley
Austen Groener	Physics	Weak and Strong Lensing Mass Reconstructions of Galaxy Clusters: Orientation Bias and Radially Varying Shape	Dr. David Goldberg
Maxwell Henderson	Physics	Network Dynamics of Neuronal Networks with Various Geometric Distributions and Distance Dependent Connectivity	Dr. Luis Cruz
Frank Jones	Physics	Automated Neuron Recognition in Immunostained Images of the Fly Brain	Dr. Luis Cruz Cruz
Vishal Kasliwal	Physics	Understanding AGN Physics using Variability	Dr. Michael S. Vogeley
Coleman Krawczyk	Physics	Mid-IR through UV SEDs and Dust Reddening in SDSS Quasars	Dr. Gordon Richards
Joseph Lambert	Physics	Conductance Fluctuation Measurements of Superconducting Graphene Devices	Dr. Roberto Ramos
Matthew Mawhinney	Physics	Application of Biophysical Methods to Elucidate Pathways of Insulin Assembly	Dr. Brigita Urbanc
Crystal Moorman	Physics	The Impact of Environment on HI-Selected Galaxies	Dr. Michael Vogeley
Allyson O'Brien	Physics	The Magnetic Stadium	Dr. Robert Gilmore
Christina Peters	Physics	Bayesian Quasar Selection Using Variability and Astrometry	Dr. Gordon Richards

Elizabeth Segelken	Physics	Study of the Dynamics of Fluids and Particle Suspensions Using the Lattice-Boltzmann Method	Dr. Luis R. Cruz Cruz
Erica Smith	Physics	Gain Calibration of Avalanche Photodiodes in EXO-200	Dr. Michelle Dolinski
Matthew Thiesse	Physics	Simulating Optical Photons in a Water Cerenkov Detector	Dr. Chuck Lane
Matthew Voelker	Physics	Oligomerization of Amyloid b-Protein in Crowded Environments: A Discrete Molecular Dynamics Study	Dr. Brigita Urbanc
PSYCHOLOGY			
Katherine Alvarez	Psychology	Do Oral Contraceptives Affect Women's Perception of Facial Anger?	Dr. Mary Spiers
Alexa Bonacquisti	Clinical Psychology	Postpartum Depression and Mental Health Care Utilization in Mothers with Infants in the NICU	Dr. Pamela A. Geller
Christopher Diaz	Psychology	Predictors of Attitudes Towards Seeking Medical Care and Psychological Care Among Veterans	Dr. Christine Nezu
Caroline Grady	Psychology	Proposed Study: Diabetic Women's Perceptions of Pregnancy	Dr. Pamela Geller
Emily Haney- Caron	Psychology	Implications of Zero Tolerance Policies for Juvenile Justice	Dr. Naomi Goldstein
Mitra Khaksari	Psychology	Psychosocial Correlates of Infertility Treatment Among Minority and Non-minority Women	Dr. Pamela A. Geller
Amanda NeMoyer	Psychology	Juvenile Probation: What do Courts Require and Which Requirements do Youth Violate?	Dr. Naomi Goldstein
Epiphania Osei	Psychology	Does Time of Puberty in Females Correlate with Performance on Verbal, Spatial and Social Cognitive Measures?	Dr. Mary Spiers

Jessica Stern	Clinical Psychology	Problem Solving: How We Think, Feel and Act	Dr. Arthur Nezu
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