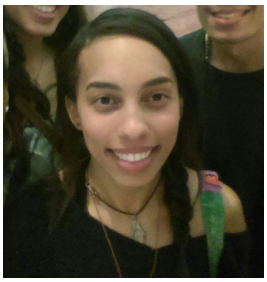
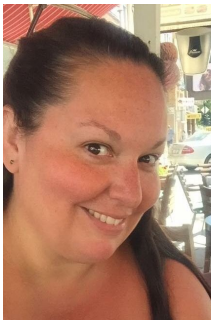
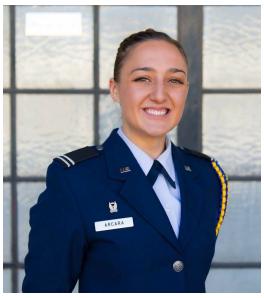
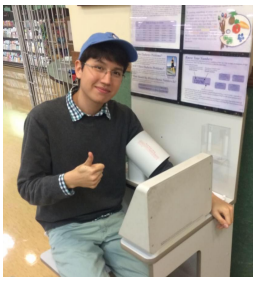
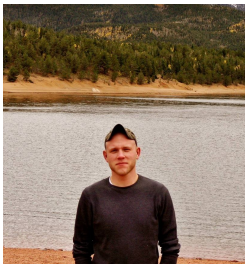
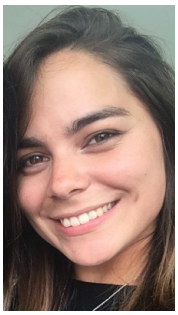
Cornell Diversity Preview Weekend 2018
Ecology and Evolutionary Biology — Entomology — School of Integrative Plant Sciences

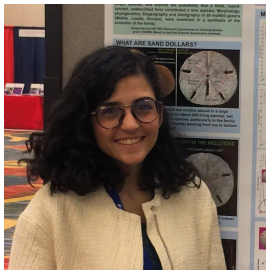
	**Amanda Agosto Ramos** (SIPS) I am interested in plant biology, particularly at the cellular/molecular level. The signaling pathways, biosynthetic pathways and genes involved in the production of secondary metabolites are of interest to me, as well as gaining genomics and proteomics knowledge.
	**Elba Allen** (SIPS) I am interested in soil fertility/chemistry, sustainable agriculture, and greenhouse agriculture.
	**April Altamira** (EEB) I am very interested in aquatic invasive species and the positive or negative role they can have on native species/systems. More specifically, I am interested in the invasive Northern Snakehead fish's behavior, habitat and impact on native communities.
	**Makayla Arcara** (ENTO) I am really interested in research surrounding the interactions between the environment and human health. I am specifically interested in the mechanisms underlying how vectors play into the spreading of infectious diseases.
	**Estefany Argueta Herrera** (EEB) I am interested in how anthropogenic forces are impacting aquatic ecosystems.

	**Tara Caso** (SIPS) I am interested both in the utilization of valuable plant enzymes for the purposes of biotechnology, as well as potential applications for the use of CRISPR in crops in order to increase yield and resistance to environmental conditions.
	**Modeline Celestin** (EEB) My current research interest is global change ecology, particularly how climate change or other anthropogenic activities (i.e., habitat fragmentation) influence the shift in population dynamics, morphology, or phenology of species. I am also passionate about investigating how internal and external stressors affect the relationship and behavior of species across different ecological scales.
	**Sean Clemente** (EEB) I am interested in studying pollinator-plant and herbivore-plant interactions. Particularly, I am interested in how plant chemical compounds affect both their pollinators and herbivorous predators.
	**Jessica Cole** (ENTO) I am very interested in the diet of honey bees and how this affects their rearing of brood.
	**Esbeiry Cordova-Ortiz** (EEB) I do have a specific interested but I am drawn to human interaction with the environment and their affects on ecosystems.

	**Drea Darby** (ENTO) I am interested in how a host's microbiome impacts its physiology and response to stress. Currently, I study the effects of the gut microbiome on desiccation resistance in fruit flies.
	**Charlotte Devitz** (EEB) My biggest interests are in animal personality/behavioral syndromes and their ecological and evolutionary consequences. I am also interested in animal cognition and learning.
	**Daniel Hayden** (SIPS) I am interested in plant-fungal interactions. Specifically, the genetic systems responsible for these interactions.
	**Rixsi Herrera** (ENTO) I am interested in the interactions that insects have with certain environment conditions or aspects (such as rain, sunlight, soil etc.). I am very interested in the changes of behavior that the environment can cause and would like to understand what causes these certain behavioral changes.
	**Jake Hoffmann** (EEB) I am interested in nesting colony composition and what makes colony. I am also interested in waterfowl ecology and how species adapt to urban environments.

	**Loretha Jack** (EEB) I am interested in the impact of climate change and invasive species on biodiversity. I am particularly interested in understanding how these things influence the distribution of plant species, and the capacity for oceanic organisms such as coral to adapt to rising temperatures.
	**Sire Kassama** (SIPS) I find that the intersection of high throughput shovelomics coupled with intensive bioinformatics is the current direction of plant breeding. I am interested in the use of these techniques within the scope of vegetable breeding.
	**Michael Lam** (SIPS) I want to learn about what plants are doing and how plant communities are responding to pollution, climate change, and other disturbances, and how plant interactions with soil, microbes, insects, etc affect their ability to adapt/evolve.
	**Jing Leong** (SIPS) I am fascinated with the interactions among plants, herbivores, and bacteria: how plants evolve in an arms race with various predators and diseases and how plant-bacteria relationships shape plant survival and evolution of each organism.
	**Andrea Lugo-Torres** (SIPS) My passion lies in the detection of pathogens, pest and agricultural management and how they affect the nutritional value of crops. I am very intrigue in design protocols and scales to rate pests to understand the plant-pathogen-pests interactions that will improve the nutritional quality of the cultivar.

	**Megan Lynch** (SIPS) I'm interested in breeding fruit that is full of good taste & aroma, yet can cope with the changes (temperature extremes, flooding, drought, shifting pest/disease ranges) that climate change is throwing at us. Also interested in improving lesser-known fruit crops to increase food security.
	**Ryan Martinez** (SIPS) I am broadly interested in genome editing in plants for purposes such as crop improvement and phytoremediation. I am also interested in anything pertaining to evolutionary computational biology.
	**Eric Medina Can** (SIPS) I am interested in using our understanding of ecological and social systems to mitigate issues of food security in the United States.
	**Alex Molina** (EEB) I am interested in studying behavioral evolution and reproductive biology in mammals, though my interest extends into all taxa. It is my goal to use application of this knowledge to better inform conservation practices and captive breeding strategies.
	**Melissa Morado** (EEB) I am interested in how climate change is affecting ecosystem dynamics and populations. I am also interested in adaptations to stress, predatory techniques, bioacoustics, and communication.

	**Adamaris Muñiz Tirado** (EEB) I am interested in ecosystem dynamics, and more specifically how organisms function in their environment and what roles each plays in the evolution of communities. I am also interested in studying phylogenetics and systematics to better understand biodiversity, examining characteristics of past and present species while looking ahead to the future.
	**Natacha Namphengsone** (SIPS) I am interested in studying molecular mechanisms in plants and how this research can help with sustainable agriculture.
	**Tristan Paulino** (SIPS) Broadly, my interests are in plant and microbial interactions and pathogenesis. Particularly, I am interested in the implications and mechanisms of association between arbuscular mycorrhizal fungi and plants, and developing novel techniques in pathogen detection.
	**Melanie Quiñones Santiago** (EEB) My interest is focused in finding solutions to address problems associated with invasive species in tropical forest landscapes. In particular, the understanding of the physiological traits and the implementation of public policy as it relates to socio-ecological systems and climate change related topics.
	**Trey Ramsey** (ENTO) I am interested in biological control and integrated pest management on ornamental and agricultural plants, with a particular interest in their applications to public gardens.

	**Destiny Reeves** (EEB) I am primarily interested in methods of conserving life in the face of urbanization and climate change, namely insects and/or small mammals. Although I have a background in phylogenetics and evolutionary biology, I want to learn more about the fields of applied conservation ecology / conservation genetics.
	**Damayanti Rodriguez Ramos** (SIPS) I am interested in the use of microorganisms, plants and genetic manipulation for the use of elimination of pollutants in our planet.
	**Ed Sánchez** (EEB) I would like to study the interactions of organism-organism and organism-environment relationships in relation to external factors such as climate change in a variety of habitats.
	**Johanna Schwartz** (ENTO) I am generally interested in behavioral ecology and insect systematics/taxonomy.
	**German Silva** (SIPS) I an interested in using geospatial technology to analyse land cover change. Specifically, how does land cover change impact ecosystem services and the ecosystem as a whole.
	**Harrison Watson** (EEB) I am very interested in tropical ecosystem resiliency within the rapidly changing climate.

	**Sienna Wessel** (EEB) My research interests are centered on bridging ecological science and land management to ensure the resilience of plant communities in the face of increasing anthropogenic disturbances and climate change. I am particularly interested in how plant functional traits, genetic diversity, and interactions between plants, insects, and soil microbes dictate plant community composition and resistance to ecosystem imbalances.
	**Brandon Williams** (SIPS) I am interested in the mechanisms surrounding plant-plant interactions and how these relationships tie into greater aspects of ecosystems. Furthermore, I am also interested in how these relationships are maintained in a world of changing climate and warming.
	**Doressa Williams** (SIPS) I am interested in research in plant systematics, plant diversity, and floristics.
	**Jamil Wilson** (EEB) I'm interested in how marine and freshwater invertebrates are adapting or responding in behavior to changing environments(invasive species, introduced parasites,chemicals). For instance I'd like to test for the chemical that water fleas use to detect phantom midges that result in their growth of neck teeth armor. Another interest of mine lies within learning more on the chromatophores of certain cephalopods and how they assess the environment around them (particularly in stressful situations).