

EXPERIENCE

DETAILS

Meier Lab

Department of Molecular Genetics
The Ohio State University
May 2014 - present

C. A. Triplehorn Insect Collection

Museum of Biological Diversity
The Ohio State University
August 2014 - present

Freelance Artist 2009 - present

Tropical Field Ecology Study Abroad

Gamboa, Panama
Ohio State University & The Smithsonian Tropical Research Institute
16 May - 28 May 2016

National Science Foundation
Research Experience for Undergraduates (REU)
Blandy Experimental Farm
University of Virginia
May 2015 - Autumn 2015

C. A. Triplehorn Insect Collection

Museum of Biological Diversity
The Ohio State University
August 2014 - April 2015

Ecology Field Courses

F. T. Stone Laboratory
Gibraltar Island, Lake Erie
The Ohio State University
Summer 2014

Seeger Lab

Department of Molecular Genetics
The Ohio State University
Autumn 2011 - April 2012

DESCRIPTION

Undergraduate Researcher

- Assisting PhD candidate Anna Griffis with her projects; training in molecular genetics and plant biology (2014 - present)
- Designing and conducting independent research project on molecular factors of plant-bacteria symbiosis, for Honors Thesis (2015 - present)

Undergraduate Research Assistant

- Performing micro- and macrophotography of insect specimens for collection databasing
- Training other employees and volunteers to use the imaging systems
- Involved in project development and preparation of visual materials for the Museum's annual Open House (2015)

Illustrator

- Providing visual materials for various requests and needs; typically done as volunteerism for contacts within academia (for school clubs, fundraising, printed media, etc.)

Student

- Participated in a group research mini-project throughout the course, culminating in a research paper with analyzed data, methodology, and discussion of findings
- Learned various field techniques and identification of tropical species; had opportunity to practice these in the field
- Visited sites of current ecological interest

Student Researcher

- Conducted an independent research project on plant-insect relationships and herbivory for the duration of the program with mentor Dr. Mary McKenna
- Program also involved community outreach for adults and children

Undergraduate Imaging Intern

- Photographing and editing insect specimen images for database collection
- Assisting with creative projects & developing new design ideas for visual media

Student

- Practiced a wide variety of field techniques for sampling and collection in freshwater and terrestrial systems
- Learned species identification (aquatic and terrestrial); practiced identification in the field

Undergraduate Research Assistant

- Performed general lab duties working with populations of *Drosophila*
- Handled, sexed, and identified strains of *Drosophila* adults

PERSONAL SUMMARY

Current undergraduate student completing dual-degree program in art & science. Diversified skillset between and within these two areas of study. Successful when working individually as well as collaboratively. at communicating scientific concepts to a wider audience, especially through the use of art. Eager and able to learn new skills for various project requirements.

SKILLS

ART & TECHNOLOGY

Cinema 4D	●●●●○○
Photoshop	●●●●●●
Illustrator	●●●●●●
InDesign	●●●●●●
Premiere Pro	●●●●●○
After Effects	●●●●●●
Arduino	●●○○○○
Java	●●○○○○

FIELD & LABORATORY

Molecular Techniques	●●●●○○
Field Techniques	●●●●●○
Microscopy	●●●●○○
Data Analysis	●●●●○○

EDUCATION

- **The Ohio State University**
Columbus, Ohio
2011 - present
Evolution & Ecology • Bachelor of Science with Honors Research Distinction
Art • Bachelor of Arts with Honors in the Arts & Sciences
[expected graduation date: Spring 2017]
- **Sidney High School**
2007 - 2011
High School Diploma
- **Maryland Institute College of Art**
Summer 2010
Pre-College Program • Illustration
- **School of the Art Institute of Chicago**
Summer 2009
Pre-College Program • Figure Drawing

PRESENTATIONS

DATE	EVENT	WORK
2016	Denman Undergraduate Research Forum Juried Poster Presentation <i>The Ohio State University</i>	<i>Chemical and elemental defenses in the Brassicaceae and their effects on the specialist, sequestering insect Murgantia histrionica</i> Mentor: Dr. Mary McKenna, Howard University
2016	Ecological Society of America 101st Annual Meeting Fort Lauderdale, Florida	<i>Elemental defense in Ni-hyperaccumulators against a specialist herbivore Murgantia histrionica</i> Collaborator: Jalyse Cuff, Howard University Mentor: Dr. Mary McKenna, Howard University

EXHIBITIONS

DATE	EXHIBIT / SHOW	WORK
2016	Art & Technology Exhibition Hopkins Hall Gallery <i>The Ohio State University</i>	• <i>HYPERACCUMULATOR</i> Animation, created in Cinema4D and After Effects. A romanticized view of a robot capable of filtering toxic heavy metals from the soil, particularly those from industrial processes. The work hopes to encourage questions about the recursive use of modern technology in remediating issues caused by the production of technological items and machinery.
2016	• <i>Preternatural</i> (Art Exhibit) curated by Ken Rinaldo and Remco Volmer <i>Maker Faire Ottawa</i>	
2016	Art & Technology Exhibition Hopkins Hall Gallery <i>The Ohio State University</i>	• <i>Oral Microbiota Monitoring System</i> Rapid prototype of iPhone microscope kit case and accompanying poster of 3D renders. Cellphone case designed for viewing of microscope slides "on the go." The human oral microbiome is influenced by diet, behavior, stress, and other actions.
		• <i>Where Rocks are Fed to Trees: A Collaborative Art / Science Installation</i> Full room installation comprised of light, sound, and interactive components. Collaborative project with faculty and students of the ART 5001 Underground Symbiosis class at Ohio State. Work was inspired by the subterranean, fungal communication networks that enable the sharing and transport of nutrients between different species.
2015	Art & Technology Exhibition Hopkins Hall Gallery <i>The Ohio State University</i>	• <i>ecoSystem</i> Processing-based interactive simulation of ecosystem dynamics, investigating the human predilection for control and its impact on natural systems.
2015	Vermiculture Makers Club curated by Amy Youngs 849 Gallery <i>Kentucky School of Art</i>	• <i>Earthworm: drawings from observation</i> Graphite on paper. Exploration of internal and external anatomy of an earthworm through drawings and note-taking.
2014	Juried Printmaking Exhibition Hopkins Hall Gallery <i>The Ohio State University</i>	• <i>Cut</i> Color intaglio print, approx. 30 cm x 30 cm. Visual piece of a dissected snake. The work explores the relationship between artist intent and viewer interpretation in the critical discussion of an art piece.

VOLUNTEER WORK

DATE	EVENT / PROJECT	CONTRIBUTION
2016	Engaging with Insects: Day Camp for Children Museum of Biological Diversity with Ohio 4-H <i>The Ohio State University</i>	• Photographed the various kids' activities, tours, and learning experiences throughout the week-long day camp; aided in the design and production of materials for craft activity
2016	Museum of Biological Diversity Annual Open House	• Photographer and kids' activity supervisor for the Insect Collection; photographed visitors and exhibits; helped children with arts and crafts activities
2015	Museum of Biological Diversity <i>The Ohio State University</i>	
2015	Ohio Field Guide: Lichens published in 2015 <i>Ohio Department of Wildlife</i>	• Produced eight (8) illustrations of microscopic and macroscopic structures of lichens for field guide; worked with field guide writer and editor to develop accurate and satisfactory images
2014	Silent Auction Charity Event <i>Pets Without Parents Animal Rescue Columbus, OH</i>	• Donated limited edition relief print as an auction item for the non-profit animal shelter, Pets Without Parents

AWARDS AND RECOGNITIONS

Medalist Scholarship

Merit-based award for four years at The Ohio State University

Franz Theodore Stone Lab Scholarship

Merit-based award for program attendance (Summer 2014)

Charles Massey Printmaking Scholarship Award

Award given for work in Juried Printmaking Exhibition (Spring 2014)

TechHub Student Project Development Grant

For materials and resources needed to make a technology-based project (awarded Autumn 2015, project currently in development)

Dean's List, College of Arts and Sciences

(Spring 2012, Autumn 2012, Spring 2013, Autumn 2013, Spring 2014, Autumn 2014, Autumn 2015)

AFFILIATIONS

Ecological Society of America Student Member

(2016 - present)

OSU Student Printmaking Association Officer

(2014 - 2015)

Phi Kappa Phi Honor Society Member

Ohio state University Chapter
(Autumn 2014 to present)

ADDITIONAL SKILLS

Art

Painting

Printmaking

Drawing

Photography

Software

Word Processing

Processing

Spreadsheets

Helicon (image stacking software)

Statistics

MATLAB

FIJI / ImageJ

Miscellaneous

Plant identification

Insect pinning

Plant care

Food service

Languages

English: native language

French: basic proficiency (four years)