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Education

University of California Davis

Ph.D. CANDIDATE IN ECOLOGY

2014 - PRESENT

Humboldt State University

Arcata, CA

Davis, CA

M.S. IN BIOLOGY

Florida State University

Tallahassee, FL

B.S. IN ENVIRONMENTAL STUDIES

2011

Publications

LoPresti, E.F., J. VanWyk, J. M. Mola, K. Toll, T.E. Miller, & N.M. Williams. 2018. Effects of wildfire on floral display size and pollinator community reduce outcrossing rate in a plant with a mixed mating system. American Journal of Botany 105(7):1154-1164

Mola, J.M. & N.M. Williams. 2018. Fire-induced change in floral abundance, density, and phenology benefits bumble bee foragers. Ecosphere. 9(1):e02056

Mola, J.M., J.M. Varner, E.S. Jules, & T. Spector. 2014. Altered community flammability in Florida's Apalachicola ravines and implications for the persistence of the endangered conifer Torreya taxifolia. PLoS ONE 9(8): e103933.

Kreye, J.K., J.M. Varner, J.K. Hiers, & J.M. Mola. 2013. Toward a mechanism for eastern North American forest mesophication: differential litter drying across 17 species. Ecological Applications 23:1976-1986.

OTHER PUBLICATIONS

Mola, J.M.. The role of native bees on organic farms in Humboldt County, California. 2014. Master's Thesis. Humboldt State University. http://hdl.handle.net/2148/1956

SUBMITTED OR IN REVIEW

J.M. Mola & N.M. Williams. A review of methods for the study of bumble bee movement. In Review at Apidologie

LoPresti, ... Mola, J.M. ... et al. A lever action hypothesis for pendulous hummingbird flowers; experimental evidence from a columbine. Submitted to Annals of Botany

J.M. Mola & N.M. Williams. Bumble bee movement ecology across life stages. Submitted

Funding_

FELLOWSHIPS

2018-2019 University of California Davis, Professors for the Future Fellow \$3,000

Year-long professional development and pedagogical training fellowship

2013-2018 National Science Foundation, Graduate Research Fellowship \$133,500

2014-2016 University of California Davis, Graduate Group in Ecology Fellowship \$43,000

Humboldt State University, Allistair and Judith McCrone Graduate Fellowship \$3,000 Awarded to one student campus-wide annually

GRANTS AND AWARDS

2015, 2016		
	2018	University of California Davis, Henry A. Jastro Graduate Research Award
	2017	BOMBUSS Conference, Logan, Utah. Student Scholarship
20	15, 2017	American Museum of Natural History, Theodore Roosevelt Memorial Grant
20	15, 2016	University of California Davis, Natural Reserve System Grant
	2016	Northern California Botanists Graduate Research Scholarship
	2016	California Native Plant Society, Helen Sharsmith Award
	2016	University of California, Mathias Graduate Student Grant
	2014	California Native Plant Society, Callahan Scholarship
	2013	Humboldt State University, Master's Student Grant
	2013	Households Chata Hairranite. Borran larrantahunta Zaalam Cahalambin
	2013	Humboldt State University, Brusca Invertebrate Zoology Scholarship
	2010	National Science Foundation, Research Experience for Undergraduates
	2010	Florida State University, Student Star Award

Presentations _____

CONTRIBUTED

2018	Foraging range and habitat use of bumble bees in a Sierra Nevada meadow complex. Entomological Society of Amer-
	ica Annual Conference, Vancouver, Canada.

- 2018 The effect of fire on bumble bees revealed via genetic mark-recapture. Bay Area Society for Conservation Biology Symposium, Davis, California.
- 2017 SNPs v. MSATs a comparison of costs, utility, and error in sibship reconstructions. *BOMBUSS Conference*, Logan, Utah. *Awarded a student travel scholarship.*
- 2017 Bees benefit from fire due to a lengthened post-fire flowering season. *Ecological Society of America Annual Conference*, Portland, Oregon.
- 2017 Bees benefit from fire due to a lengthened post-fire flowering season. *Graduate Student Symposium in Ecology*, Davis, California. *Runner-up "best talk" at conference*.
- 2017 Motivational differences and co-foraging behaviors of bumble bee queens and workers. *Student Seminar Series*, Davis. California.
- 2014 The role of native bees on organic farms in Humboldt County, California. *Master's Thesis Defense, Humboldt State University*, Arcata, California.

INVITED

- 2013 Diverse crops and diverse pollinators. *Humboldt State University Sponsored Programs Foundation PI Celebration*, Arcata, California. *First-ever student invited to talk at this annual event*.
- 2013 The ecology and management of wild bees on Humboldt County organic orchards. *Alistair and Judith McCrone Awards Ceremony. Humboldt State University,* Arcata, California.

Posters

- 2018 Response of bumble bees to fire revealed via genetic mark-recapture. Entomological Society of America Annual Conference, Vancouver, Canada.
- 2018 Bumble bee movement and landscape genetics revealed via high-throughput sequencing. *Keeping Bees Healthy Symposium*, Davis, California. *First place in poster contest.*
- **2017** Fire-induced change in flowering phenology benefits bumble bees. *Keeping Bees Healthy Symposium,* Davis, California. *Third place in poster contest.*
- **2016** Fine-scale population genetic structure and movement ecology of the yellow-faced bumblebee (*Bombus vosnesenskii*). *Keeping Bees Healthy Symposium*, Davis, California. **Awarded cash prize in poster contest.**
- **2015** Constructing a dynamic map of bumblebee colony density and foraging movements. *Keeping Bees Healthy Symposium*, Davis, California.
- 2011 Contrasting flammability of adjacent plant communities: Florida's Apalachicola Bluffs and Ravines. *Ecological Society of America Annual Conference*, Austin, Texas.

Teaching.

PEDAGOGICAL TRAINING

Seminar on College Teaching

University of California Davis

Course offered through the Center for Educational Effectiveness designed to teach pedagogical principles, assessments and assignments, active learning, lesson and course design, teaching to diverse students, and preparation through practice.

LEAD OR CO-INSTRUCTOR

Urban Bees: Conserving pollinators in human dominated lands

Spring 2018

Fall 2018

University of California Davis

Co-instructor with Neal Williams

• I conceptualized, designed, and taught this First-Year Seminar. Gave lectures, guided discussion, and facilitated students through group projects. For many students, this was their first small-group class and first hands-on research experience.

Fire and Forbs Weekly Seminar

Winter 2018

University of California Davis

Co-organizer with Eric LoPresti

· Developed the scope of the seminar and the schedule of readings.

GUEST LECTURES

Plant Ecology Fall 2015

HUMBOLDT STATE UNIVERSITY

· Led unit on plant-insect interactions.

General Botany Spring 2014

HUMBOLDT STATE UNIVERSITY

· Led unit on floral morphology and pollination.

TEACHING ASSISTANT

ABI50A - Learning Science by Doing

Fall 2018

University of California Davis

· Guided students through designing ecological experiments and provided feedback on study design.

General Botany Fall 2012 - Spring 2013

HUMBOLDT STATE UNIVERSITY

· Wrote lab quizzes and practicals. Lectures to introduce lab unit.

Mentoring

Maya Argaman University of California Davis

FIELD RESEARCH ASSISTANT Spring 2016

• Worked on plant quality following wildfire at UC McLaughlin Reserve.

Jared Borba University of California Davis

FIELD RESEARCH ASSISTANT Summer 2015

• Worked on plant use by bumble bees in Sierra Meadows.

Grace Blacker Humboldt State University

FIELD AND LAB ASSISTANT 2013

• Assisted with field collections and pollen identification.

Corey Andrikoplous Humboldt State University

FIELD RESEARCH ASSISTANT 2013

• Worked on pollinator visitation to crops in Humboldt County. Currently MS student studying bees at Utah State University.

Professional and Academic Service

MANUSCRIPT REVIEWER

2018 Arthropod-Plant Interactions, Journal of Applied Ecology, Ecology and Evolution

2017 Ecological Entomology, Explorations

2016 California Agriculture

JANUARY 14, 2019 JOHN M. MOLA · CV 3

COLLEGE, PROGRAM, AND DEPARTMENTAL SERVICE

The Aggie Brickyard https://aggiebrickyard.github.io

CREATOR, CO-FOUNDER, & EDITOR

• A quarterly student/faculty publication on ecology with an emphasis on the GGE community. In print and online.

UC Davis Graduate Group in Ecology Open Lab Meetings

Davis, CA 2015 - PRESENT

2016 - PRESENT

ORGANIZER, CO-FOUNDER

· Co-founded and hosted informal series where students could present new ideas, develop a talk, or practice for qualifying exams in a supportive environment.

College of Agriculture and Environmental Science Education Committee

Davis, CA

STUDENT REPRESENTATIVE

2017

UC Davis Graduate Student Association

Davis, CA

REPRESENTATIVE

2014 - Spring 2017

UC Davis Graduate Group in Ecology Admissions Committee APPLICATION REVIEWER

Davis, CA 2015, 2016

Davis, CA

UC Davis Graduate Student Symposium in Ecology ORGANIZER

2016-2017

UC Davis Ecology Graduate Student Association

Davis, CA

Co-chair

2015-2016

UC Davis Graduate Group in Ecology

Davis, CA

ORIENTATION LEADER

2013

2015, 2016

Scientific Outreach & Communication

WRITING AND INTERVIEWS

2016, 2017	Several ar	ticles i	n The A	Aggie Bricky	<i>ard</i> avai	ilable in p	rint and on	line -	- htt	tps://ag	giebri	ickyard.g	githu	ıb.io
2017	Interview	with	The	California	Aggie	"Better	Bee-lieve	it"	_	about	the	listing	of	Bombus

Interview with The California Aggie "Better Bee-lieve it" - about the listing of Bombus affinus.

https://theaggie.org/2017/02/02/better-bee-lieve-it-uc-davis-entomologist-helped-list-bee-as-endangered/

The importance of native bees for agriculture – Presentation to Klamath-Trinity Resource Conservation District.

Hoopa Valley Tribal Reservation. Featured on KIDE radio.

2012 Ecology and management of Osmia lignaria on Diverse Humbolt County orchards. Interview with KRFH Humboldt

State's Campus Radio

Tours, Guided Talks, Outdoor Instruction

	Speaker			ý	,		
2018	Where do bees go and	how do we know?	2nd Annual	California Honey	<i>restival</i> Woodland,	California.	Invited

- 2017 Tour Guide for Pollinator-friendly plantings. Western Apicultural Society Meeting Davis, California.
- 2015 Pollinator-friendly farming presentation. Hoes Down Festival Capay Valley, California
- 2014 Cavity nesting bee workshop (Open to general public. Self-designed and taught.) Center for Appropriate Technology Arcata, California
- 2011 Kid's Camp Instructor, Pollination Week and Seed Dispersal and Plant Reproduction Rocky Mountain Biological Laboratory Gothic, Colorado