

One Shields Avenue, Department of Entomology, University of California Davis, Davis CA 95616

□813-494-2002 | ■jmmola@ucdavis.edu | ★www.johnmola.com | □john-mola

Education

University of California Davis

Ph.D. CANDIDATE IN ECOLOGY

Davis, CA 2014 - PRESENT

Humboldt State University

Arcata, CA

M.S. IN BIOLOGY

2014

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. Effects of wildfire on floral display size and pollinator community reduce outcrossing rate in a plant with a mixed mating system. Accepted at American Journal of **Botany**

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, IN REVIEW, SUBMITTED

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

Funding.

FELLOWSHIPS

- 2014 University of California Davis, Graduate Group in Ecology Fellowship \$43,000
- 2013 National Science Foundation, Graduate Research Fellowship \$133,500
- 2013 Humboldt State University, Allistair and Judith McCrone Graduate Fellowship \$3,000 Awarded to one student campus-wide annually

GRANTS AND AWARDS

- 2017 BOMBUSS Conference, Logan, Utah. Student Scholarship \$500
- 2017 American Museum of Natural History, Theodore Roosevelt Memorial Grant \$1,000
- 2016 University of California Davis, Natural Reserve System Grant \$1,750
- 2016 Northern California Botanists Graduate Research Scholarship \$1,600
- 2016 University of California Davis, Henry A. Jastro Graduate Research Award \$2,100
- 2016 California Native Plant Society, Helen Sharsmith Award \$400
- 2016 University of California, Mathias Graduate Student Grant \$3,000
- 2015 University of California Davis, Henry A. Jastro Graduate Research Award \$3,300
- 2015 American Museum of Natural History, Theodore Roosevelt Memorial Grant \$2,160
- 2015 University of California Davis, Natural Reserve System Grant \$2,400

- 2014 California Native Plant Society, Callahan Scholarship \$1,388
- 2013 Humboldt State University, Master's Student Grant \$300
- 2013 Humboldt State University, Brusca Invertebrate Zoology Scholarship \$1,000
- 2010 National Science Foundation, Research Experience for Undergraduates \$5,000
- 2010 Florida State University, Student Star Award

Presentations_

CONTRIBUTED

- 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 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.

Professional and Academic Service _____

MANUSCRIPT REVIEWER

2017 Ecological Entomology, Explorations

2016 California Agriculture

COLLEGE, PROGRAM, AND DEPARTMENTAL SERVICE

The Aggie Brickyard

Creator, Co-founder, & Editor 2016 - PRESENT

• 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

https://aggiebrickyard.github.io

ORGANIZER, CO-FOUNDER

2015 - PRESENT

• 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 Student Representative	Davis, CA 2017
UC Davis Graduate Student Association Representative	Davis, CA 2014 - Spring 2017
UC Davis Graduate Group in Ecology Admissions Committee Application Reviewer	Davis, CA 2015, 2016
UC Davis Graduate Student Symposium in Ecology ORGANIZER	Davis, CA 2016-2017
UC Davis Ecology Graduate Student Association Co-CHAIR	Davis, CA 2015-2016
UC Davis Graduate Group in Ecology ORIENTATION LEADER	Davis, CA 2015, 2016
Teaching	
Urban Bees: Conserving pollinators in human dominated lands Co-INSTRUCTOR WITH NEAL WILLIAMS I conceptualized, designed, and taught this First-Year Seminar. Gave lectures, guided discussion, and group projects.	University of California Davis Spring 2018 d facilitated students through
Fire and Forbs Weekly Seminar	University of California Davis
CO-ORGANIZER WITH ERIC LOPRESTI • Developed the scope and schedule of readings.	Winter 2017
Plant Ecology GUEST LECTURE • Led unit on plant-insect interactions.	Humboldt State University 2015
General Botany GUEST LECTURE • Led unit on floral morphology and pollination.	Humboldt State University 2014
General Botany TEACHING ASSISTANT • Wrote lab quizzes and practicals. Lectures to introduce lab unit.	Humboldt State University 2012-2013
Mentoring	
Maya Argaman FIELD RESEARCH ASSISTANT • Worked on plant quality following wildfire at UC McLaughlin Reserve.	University of California Davis Spring 2016
Jared Borba FIELD RESEARCH ASSISTANT • Worked on plant use by bumble bees in Sierra Meadows.	University of California Davis Summer 2015
Grace Blacker FIELD AND LAB ASSISTANT • Assisted with field collections and pollen identification.	Humboldt State University 2013

Corey Andrikoplous Humboldt State University FIELD RESEARCH ASSISTANT

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

Scientific Outreach & Communication _____

WRITING AND INTERVIEWS

2016, 2017	Several articles in <i>The Aggie Brickyard</i> available in print and online – https://aggiebrickyard.github.io
2017	Interview with The California Aggie "Better Bee-lieve it" – about the listing of <i>Bombus affinus</i> .
	https://theaggie.org/2017/02/02/better-bee-lieve-it-uc-davis-entomologist-helped-list-bee-as-endangered/
2013	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. <i>Interview with KRFH Humboldt</i>
	State's Campus Radio

Tours, Guided Talks, Outdoor Instruction

2018	Where do bees go and how do we know? 2nd Annual California Honey Festival Woodland, California. Invited
	Speaker
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 Lab-
	oratory Gothic, Colorado