

John M. Mola

PhD Candidate, Ecology, UC Davis
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EDUCATION

University of California, Davis, Ph.D. candidate Ecology	expected 2019
Humboldt State University, M.S. Biology	2014
Florida State University, B.S. Environmental Studies	2011

Publications

Journal Articles

J.M. Mola, J.M. Varner, E.S. Jules, and 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.

J.K. Kreye, J.M. Varner, J.K. Hiers, and **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

J.M. Mola. 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. Bees benefit from fire due to a lengthened post-fire flowering season. *Submitted*.

Awards, Fellowships, and Grants

2017. American Museum of Natural History, Theodore Roosevelt Memorial Grant.

2017. University of California Davis, Natural Reserve System Grant.

2016. Northern California Botanists Graduate Research Scholarship.

2016. University of California Davis, Henry A. Jastro Graduate Research Award.

2016. California Native Plant Society, Helen Sharsmith Award.

2016. University of California, Mathias Graduate Student Grant.

2015. University of California Davis, Henry A. Jastro Graduate Research Award.

2015. American Museum of Natural History, Theodore Roosevelt Memorial Grant.
2015. University of California Davis, Natural Reserve System Grant.
2014. California Native Plant Society, Callahan Scholarship.
2014 - 2016. University of California Davis, Graduate Group in Ecology Fellowship.
2013 - 2018. National Science Foundation, Graduate Research Fellowship.
2013. Humboldt State University, Alistair and Judith McCrone Graduate Fellowship.
2013. Humboldt State University, Master's Student Grant.
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

2017. J. M. Mola. SNPs v. MSATs - a comparison of costs, utility, and error in sibship reconstructions. BOMBUSS Conference. Logan, Utah. *This talk was awarded a student scholarship.*
2017. J. M. Mola, N. M. Williams. Bees benefit from fire due to a lengthened post-fire flowering season. Ecological Society of America Annual Conference. Portland, Oregon.
2017. J. M. Mola, N. M. Williams. Bees benefit from fire due to a lengthened post-fire flowering season. Graduate Student Symposium in Ecology. UC Davis. *2nd place in the "Best Talk" contest.*
2017. J. M. Mola. Motivational differences and co-foraging behaviors of bumble bee queens and workers. GGE Student Seminar Series. UC Davis. February 2017.
2014. J.M. Mola. The role of native bees on organic farms in Humboldt County, California. Master's Thesis Defense, Humboldt State University.

Invited

2013. J.M. Mola. Diverse crops and diverse pollinators. Humboldt State University Sponsored Programs Foundation PI Celebration.
2013. J.M. Mola. The ecology and management of wild bees on Humboldt County organic orchards. Alistair and Judith McCrone Awards Ceremony. Humboldt State University.

Posters

2017. J. M. Mola. Fire-induced change in flowering phenology benefits bumble bees. UC Davis Keeping Bees Healthy Symposium. *3rd place in poster contest*
2016. J. M. Mola. Fine-scale population genetic structure and movement ecology of the yellow-faced bumblebee (*Bombus vosnesenskii*). UC Davis Keeping Bees Healthy Symposium.
2015. J. M. Mola. Constructing a dynamic map of bumblebee colony density and foraging movements. UC Davis Keeping Bees Healthy Symposium.

2011. J.M. Mola, J.M. Varner, T. Spector, S. Sullivan, E. Engber. Contrasting flammability of adjacent plant communities: Florida's Apalachicola Bluffs and Ravines. Ecological Society of America Annual Conference in Austin, Texas.

Professional and Academic Service

Manuscript Reviewer

2017. *Ecological Entomology, Explorations*

2016. *California Agriculture*

College, program, and departmental service

2016 - Present. *Creator, Co-Founder, Editor, The Aggie Brickyard*, GGE Student/Faculty Publication, <https://aggiebrickyard.github.io/>

2016 - Present. *Organizer, Co-creator, GGE Student Seminar Series.*

2014 - Present. *Representative, UC Davis Graduate Student Association.*

2017. *Graduate Student Member, College of Agriculture and Environmental Science Education Committee.*

2016, 2015. *Reviewer, UC Davis Graduate Group in Ecology Admissions Committee.*

2017 *Volunteer, UC Davis Graduate Student Symposium in Ecology.*

2015 - 2016. *Co-chair, UC Davis Ecology Graduate Student Association.*

2016, 2015. *Orientation Leader, UC Davis Graduate Group in Ecology.*

Teaching and Mentoring

Guest Lecturer

- **2015.** Plant Ecology, Humboldt State University.
- **2014.** General Botany, Humboldt State University.

Teaching Assistant

- **2012-2013** General Botany Laboratory, Humboldt State University.

Seminar Host

- **2017.** Fire and Forbs, Independent Seminar.

Undergraduate Mentoring

- **2016.** Maya Argaman, UC Davis. *Worked on:* Plant quality following wildfire at UC McLaughlin Reserve. *Current position:* Research assistant in Israel.
 - **2015.** Jared Borba, UC Davis. *Worked on:* Plant use by bumble bees in Sierra Meadows. *Current position:* Finishing undergraduate degree.
 - **2013.** Corey Andrikopolous, Humboldt State University. *Worked on:* Pollinator visitation to orchard crops in Humboldt County, CA. *Current position:* M.S. student at USU with Dr. James Cane.
 - **2013.** Grace Blacker, Humboldt State University. *Worked on:* Efficiency of pollinators of apple crops. *Current position:* Finishing undergraduate degree.
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Scientific Outreach and Communication

Writing and Interviews

- **2016 - Present.** *Co-founder, Editor, Contributor.* The Aggie Brickyard (online: <https://aggiebrickyard.github.io> and in print)
- **2017.** Interview with The California Aggie, <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 Humboldt County orchards. Interview with KRFH Humboldt State's campus radio.

Tours, Guided Talks and Outdoor Instruction

- **2017.** *Tour Guide* Pollinator-friendly plantings for the Western Apicultural Society meeting at UC Davis.
- **2015.** Pollinator Friendly Farming. Hoes Down Festival, Capay Valley, California.
- **2014.** Cavity nesting bee workshop (Open to general public, self-designed and taught). Campus Center for Appropriate Technology. Humboldt State University.
- **2011.** *Kid's Camp Instructor*, Pollination Week and Seed dispersal and plant reproduction. Rocky Mountain Biological Laboratory.