

# John M. Mola

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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

<b>2014.</b> University of California Davis, Graduate Group in Ecology Fellowship.	\$43,000
<b>2013.</b> National Science Foundation, Graduate Research Fellowship.	\$133,500
<b>2013.</b> Humboldt State University, Allistair and Judith McCrone Graduate Fellowship. <i>Awarded to one graduate student at HSU campus-wide per year</i>	\$3,000
<b>2017.</b> BOMBUSS Conference, Logan, Utah. Student Scholarship.	\$500
<b>2017.</b> American Museum of Natural History, Theodore Roosevelt Memorial Grant.	\$1,000
<b>2017.</b> University of California Davis, Natural Reserve System Grant.	\$1,750
<b>2016.</b> Northern California Botanists Graduate Research Scholarship.	\$1,000
<b>2016.</b> University of California Davis, Henry A. Jastro Graduate Research Award.	\$2,100
<b>2016.</b> California Native Plant Society, Helen Sharsmith Award.	\$400
<b>2016.</b> University of California, Mathias Graduate Student Grant.	\$3,000

<b>2015.</b> University of California Davis, Henry A. Jastro Graduate Research Award.	\$3,300
<b>2015.</b> American Museum of Natural History, Theodore Roosevelt Memorial Grant.	\$2,160
<b>2015.</b> University of California Davis, Natural Reserve System Grant.	\$2,400
<b>2014.</b> California Native Plant Society, Callahan Scholarship.	\$1,388
<b>2013.</b> Humboldt State University, Master's Student Grant.	\$300
<b>2013.</b> Humboldt State University, Brusca Invertebrate Zoology Scholarship.	\$1,000
<b>2010.</b> National Science Foundation, Research Experience for Undergraduates.	\$5,000
<b>2010.</b> Florida State University, Student Star Award.	

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## **Presentations**

### ***Contributed***

- 2017. J. M. Mola.** SNPs v. MSATs - a comparison of costs, utility, and error in sibship reconstructions. BOMBUSS Conference. Logan, Utah. *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.
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## **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.

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## **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-e>
- **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.