

# MARTHA WOHLFEIL

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## EDUCATION

Current: PhD Student, **University of California, Davis**, Graduate Group in Ecology

B.A Biology, Magna Cum Laude, **Carleton College**, Northfield, MN, 2013

## DOCTORAL RESEARCH

**University of California, Davis**  
**Graduate Group in Ecology**

**September 2016-Present**

*Member of Dr. Erica Fleishman's Lab*

Research on biogeography and phenology of passerines in the Great Basin

- Conduct field work during avian breeding season in western Great Basin
- Data collection includes: point count surveys, nest searching/monitoring, vegetation identification and measurements, climate data collection
- Analysis of field data using ArcGIS, R, and Microsoft Excel
- Extensive knowledge of Great Basin bird life history, phenology, and identification using visual and vocal cues
- Proficient in statistical modeling of data

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## PROFESSIONAL EXPERIENCE

**Research Assistant**

**December 2015-April 2016**

Molecular Biology and Biotechnology  
Monsanto, Woodland, CA

- Full time research assistant for project examining RNAi delivery in model plant systems
- Responsible for care and experimental treatments of plants, as well as for data collection and analysis
- Experience using image collection software, image analysis software (ImageJ), and data analysis and presentation software (Spotfire, Microsoft Excel)

**Climate Change Indicators Intern**

**September 2015- December 2015**

Office of Environmental Health and Hazards Assessment  
California EPA, Sacramento, CA

- Volunteer research assistant on *Indicators of Climate Change in California* report
- Responsible for primary source literature analysis for the report's chapter on the effect of climate change on Californian bird phenology

**Field Research Technician**

**May 2014-July 2014**

University of Minnesota

*Lab of Dr. Todd Arnold, Wildlife Biology*

- Field technician for the PhD candidate Hannah Specht of Dr. Todd Arnold's lab at the University of Minnesota
- Worked in the prairie pothole region of North Dakota conducting surveys on shore bird population to determine their response to oil development in the region

- Duties included bird surveys, nest searching, experience using GPS unit, experience with ArcGIS, and a variety of bird trapping techniques

**Sensory Ecology Research Assistant**  
UC Davis

**July 2013-September 2014**

*Lab of Dr. Gabrielle Nevitt, Ecology*

- Assisted with analysis of volatile samples for study of DMS recognition in Procellariiformes with Dr. Matt Savoca
- Experience working with Gas Chromatography and sulfur detection systems
- Used previous knowledge of ocean chemistry, especially air/surface water interactions, to conduct experiments at Bodega Marine Laboratory on bait fish species
- Presently assisting on publication of paper on sensory ecology in seabirds in relation to plastic ingestion

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## SCIENTIFIC PUBLICATIONS

Savoca, M., **Wohlfeil, M.**, Ebeler, S., Nevitt G. 2016, Marine plastic debris emits a keystone infochemical for olfactory foraging seabirds. *Science Advances* 2(11): e1600395.

## SCIENTIFIC PRESENTATIONS

**Wohlfeil, M.E.** 28 January 2013. The continuum of sex determination: Transitions between sex determining mechanisms in non-avian reptiles. Senior Thesis Presentation, Carleton College. Northfield, MN

Savoca, M.S., **Wohlfeil, M.E.**, Ebeler, S.E. and G.A. Nevitt. 15 February 2014. Marine plastic debris as an olfactory trap for procellariiform seabirds. 7<sup>th</sup> Annual Graduate Student Symposium in Ecology. University of California – Davis. Davis, CA

**Wohlfeil, M.E.** and Fleishman, E. May 18 2017. Potential mechanisms responsible for within-season elevational movements of passerine species. Great Basin Bird Conference, Reno, NV.

**Wohlfeil, M.E.** February 20, 2018. Potential mechanism responsible for within-season movements of birds in the Great Basin. 10<sup>th</sup> Annual Graduate Student Symposium in Ecology. University of California – Davis. Davis, CA

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## AWARDS

Henry A. Jastro Research Fellowship	<b>2017</b>
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Best Oral Presentation: Graduate Group in Ecology Symposium <i>UC Davis</i>	<b>2018</b>
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Frances M. Peacock Scholarship for Native Bird Habitat	<b>2018</b>
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The Charles Redd Center for Western Studies: Summer Award for Upper Level Division and Graduate Students	<b>2018</b>
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