

CURRICULUM VITAE

GABRIEL G. FOOTE

Address

University of California, Davis
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Contact

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Education

Ph.D., Entomology, University of California, Davis
California, Davis 2019-present

M.S., Forestry, Oregon State University
Corvallis, OR 2016-2018

B.S., Entomology, University of Wisconsin-Madison
Madison, WI 2011-2015

Professional experience

Graduate (Ph.D.) Student Researcher 9/2019-present
Thesis: *Management guidelines for insect pollinators, social wasps and bark beetle pests in coniferous forests of the southwestern United States*
Department of Entomology and Nematology
University of California-Davis
Supervisors: Dr. Hugh Safford, Dr. Steven Seybold

Forest Pollinator Research Assistant 4/2019-8/2019
Project title: *Effects of stand harvest on local bee diversity in Douglas-fir forests of the Oregon Coast Range*
Department of Forest Ecosystems and Society
Oregon State University, Corvallis, OR
Supervisor: Dr. James Rivers

Bee Taxonomist 1/2019-4/2019
Project title: *Phenology of the urban-bee community in Portland, Oregon*
Department of Horticulture
Oregon State Univ.
Supervisor: Dr. Gail Langellotto

Professional experience (cont.)

Graduate (MS) Student Researcher 7/2016-12/2018

Thesis title: *Interactions between wild bee communities and Douglas-fir beetle populations in Douglas-fir forests of the Intermountain West*

Dept. of Forest Ecosystems and Society

Oregon State Univ.

Supervisors: Dr. Darrell Ross, Dr. Chris Fettig

Invasive Insect Field Technician 6/2015-6/2016

Project title: *Monitoring for invasive insect pests in specialty crops of Illinois*

Illinois Natural History Survey, Urbana, IL

Supervisor: Kelly Estes

Student Research Assistant: 9/2014-5/2015

Project title: *Bumblebee polyethism and foraging behavior in cranberry fields*

Department of Entomology

University of Wisconsin, Madison, WI

Supervisor: Dr. Claudio Gratton

Laboratory and Field Technician 1/2014-8/2014

Project: *Native bee pollination services in Wisconsin apple orchards*

Dept. of Entomology, UW-Madison

Supervisors: Dr. Claudio Gratton, Dr.

Rachel Mallinger

Student Research Assistant: 8/2013-12/2013

Department of Entomology

Project: *Effects of landscape composition on bumblebee colony productivity in Wisconsin cranberry fields*

University of Wisconsin, Madison, WI

Supervisor: Dr. Claudio Gratton

Laboratory and Field Technician 10/2011-12/2012

Project: *Insect community responses to climate change in Wisconsin aspen forests*

Department of Forest Wildlife and Ecology

University of Wisconsin, Madison, WI

Supervisors Dr. Phil Townsend, Dr. John Couture

Publications

Foote, G., Runyon, J., Fettig, C., Foote, N. and Ross, D.W., 2021. Wild bee response to application of the Douglas-fir beetle anti-aggregation pheromone, 3-methylcyclohex-2-en-1-one. *Economic Entomology*. <https://doi.org/10.1093/jee/toab142>.

Foote, G.G., N.E. Foote, J.B. Runyon, D.W. Ross, and C.J. Fettig. 2020. Changes in the summer wild bee community following a bark beetle outbreak in a Douglas-fir forest. *Environmental Entomology* 49(6):1437-1448.

Foote, G.G., C. J. Fettig, D. W. Ross, J. B. Runyon, T. W. Coleman, M. L. Gaylord, A. D. Graves, J. D. McMillin, L. A. Mortenson, and A. Mafra-Neto. 2020. A biodegradable formulation of MCH (3-methylcyclohex-2-en-1-one) for protecting *Pseudotsuga menziesii* from *Dendroctonus pseudotsugae* (Coleoptera: Curculionidae) colonization. *Economic Entomology*. 113:1858-1863.

Foote, G. G. 2019. Voucher specimens deposited in the Oregon State Arthropod Collection for Master of Science Dissertation, forest pollinators (Hymenoptera, Apiformes). *Catalog: Oregon State Arthropod Collection*. 3: 1–2.

Grants and awards

U.S Forest Service Special Technology Development Program. 2022. USFS and University of California-Davis	\$24,000
U.S Forest Service Special Technology Development Program. 2021. USFS and University of California-Davis	\$22,000
Henry A. Jastro Graduate Research Award. 2020, 2021, 2022. Department of Entomology and Nematology, University of California-Davis.	\$3,000
U.S Forest Service Special Technology Development Program. 2020. USFS and University of California-Davis	\$27,000
College of Forestry Fellowship Recipient. 2018. Department of Forest Ecosystems and Society, Oregon State University	\$1,000
College of Forestry Fellowship Recipient. 2017. Department of Forest Ecosystems and Society, Oregon State University	\$1,000

Oral presentations

4/2022

Western Forest Insect Work Conference, virtual conference

Invited speaker, invasive forest pests symposium: *Monitoring the range expansion of Mediterranean pine engraver across the Southwest United States*

11/2021

Western Bark Beetle Technical Working Group Meeting, virtual conference

Invited speaker, special topics symposium: *The effects of vegetative resoration treatments on wild bee communities in Pinyon-Ponderosa pine landscapes in New Mexico*

11/2020

Natural Areas Conference, Reno, NV

Speaker, pollinator symposium: *Wild bee diversity increases following a bark beetle outbreak in a Douglas-fir forest*

11/2019

Entomological Society of America, St. Louis, MO

Invited speaker (Dr. Justin Runyon presenting), pollinator symposium: *Managing for Douglas-fir beetle (Dendroctonus pseudotsugae) in high risk stands: implications for the forest-associated bee community*

4/2019

Western Forest Insect Work Conference, Anchorage, AK

Invited speaker (Dr. Darrell Ross presenting), forest pollinator symposium: *Community level responses of forest dwelling bees to a Douglas-fir beetle outbreak in Idaho*

3/2018

Western Forest Insect Work Conference, Denver, CO

Invited speaker, pollinator symposium: *Influences of the Douglas-fir beetle (Dendroctonus pseudotsugae) and forest habitat structure on associated bee communities within Douglas-fir (Pseudotsuga menziesii) forests of Idaho*

11/2017

Entomological Society of America, Denver, CO

10-minute student paper competition: *Does a semiochemical tool widely used for protecting trees from Douglas-fir beetle (Dendroctonus pseudotsugae) infestation affect the associated bee community?*

5/2017

Western Forest Insect Work Conference, Jackson, WY

Invited speaker, forest pollinator symposium: *Observations on bee diversity and abundance in Douglas Fir Forests in Eastern Idaho*

Poster Presentations

11/2021

Entomological Society of America Annual Meeting, Denver, CO

Title: *The effects of Forest disturbances on wild bee communities in coniferous forests of the Sierra Nevada mountains*

11/2019

California Forest Pest Council Meeting, Davis, CA

Title: *Community level responses of forest dwelling bees to a Douglas-fir beetle outbreak in Idaho*

4/2018

Western Forest Insect Work Conference, Denver, CO

Title: *Efficacy of a novel formulation of the anti-aggregation pheromone 3-methylcyclohex-2-en-1-one (MCH) for managing Douglas-fir beetle (Dendroctonus pseudotsugae) in high risk stands*

11/2017

Entomological Society of America Annual Meeting, Denver, CO

Title: *3-methylcyclohex-2-en-1-one: Development of a novel formulation for tree protection and assessment of ecological risks to forest pollinators*

5/2017

Western Forest Insect Work Conference, Jackson, WY

Title: *MCH: Development of a Novel Formulation for Tree Protection and Assessment of Ecological Risks to Forest Pollinators*

11/2016

Society of American Foresters National Convention, Madison, WI

Title: *MCH: Development of a Novel Formulation for Tree Protection and Assessment of Ecological Risks to Forest Pollinators*

Teaching experience

Teaching Assistant, Medical Entomology
Dept. Entomology and Nematology, UC-Davis

Winter 2023

Teaching Assistant, Introductory Biology
Dept. Ecology and Evolution, UC-Davis

Winter 2019-2021, Summer 2020

Teaching Assistant, Insect behavior
Dept. Entomology and Nematology, UC-Davis

Spring 2019, 2022

Teaching Assistant, Introductory Ecology
Dept. Ecology and Evolution, UC-Davis

Spring 2020

Teaching experience (cont.)

Teaching Assistant, Introduction to Apiculture Spring 2020, 2022
Dept. Entomology and Nematology, UC-Davis

Teaching Assistant, Forest Entomology Spring 2018 & 2019
Dept. of Forest Ecosystems and Society, Oregon State Univ.