**Jackson R. Strand**

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**EDUCATION**

**MS** **Montana State University**  2021 - 2024

Entomology

Department of Land Resources & Environmental Sciences

Committee: Dr. David Weaver (co-chair)

Dr. Tracy Sterling (co-chair)

Dr. Robert Peterson

**BS** **University of Minnesota, Twin Cities** 2013 - 2017

Major: Biology

Minor: Marine Biology

**PUBLICATIONS**

1. Strand JR, Peterson RKD, Sterling TM, Weaver DK. 2024. Sensory and behavioral responses of braconid parasitoids to changes in volatile emissions induced by wheat stem sawfly (Hymenoptera: Cephidae) larval feeding in winter wheat and smooth brome. Journal of Insect Science. (in review)
2. Strand JR, Peterson RKD, Sterling TM, Weaver DK. 2024. Agroecological importance of smooth brome in managing wheat stem sawfly (Hymenoptera: Cephidae) via associated braconid parasitoids. Journal of Economic Entomology. 1-11. DOI: [10.1093/jee/toae246](https://doi.org/10.1093/jee/toae246).

**HONORS & AWARDS**

**Open Access Author Fund** ($3,296) 2024

Montana State University Library

Funded publication of “*Agroecological importance of smooth brome in managing wheat stem sawfly (Hymenoptera: Cephidae) via associated braconid parasitoids*”

**President’s Prize** **– 2nd Place Speaker** ($50)2023

Entomology 2023, National Harbor, MD

Entomological Society of America

**Student Scholar Travel Award** ($500) 2023

College of Agriculture, Montana State University

**1st Place Speaker**

2023 LRES GSO Colloquium 2023

LRES Graduate Student Organization, Montana State University

**Montana Grains Foundation Scholarship** ($2,500) 2022

Montana Grain Growers Association

**Professional Advancement Grant** ($500) 2021

The Graduate School, Montana State University

**SEMINARS & PRESENTATIONS**

Paper Presentations

1. SE Sing, Strand JR, Peterson RKD, Weaver DK. 2025. Evaluating Host Preferences in Biological Control: Behavioral and Electrophysiological Responses of *Mecinus janthinus* and *M. janthiniformis* to Invasive Toadflax Species. National Forum on Biological Control Conference. Annapolis, MD. (scheduled)
2. Strand JR, Peterson RKD, Sterling TM, Weaver DK. 2024. Agroecological importance of smooth brome in managing wheat stem sawfly (Hymenoptera: Cephidae) via its associated braconid parasitoids. Session: Grad Competition, Plant-Insect Ecosystems: IPM – General and Field Crops. Annual Meeting of the Entomological Society of America, Phoenix, AZ. (scheduled)
3. Strand JR, Weaver DK, Sterling TM, Peterson RKD. 2024. The role of chemical ecology and agroecological importance of smooth brome in biological control of the wheat stem sawfly by native parasitoids. Masters of Entomology Defense. Montana State University, Bozeman, MT.
4. Strand JR, Weaver DK, Sterling TM, Peterson RKD. 2023. Using organic volatile compounds to assess the relationship between wheat stem sawfly, parasitoids, and smooth brome. Session: Grad Competition, Plant-Insect Ecosystems: Chemical Ecology 2. Annual Meeting of the Entomological Society of America, National Harbor, MD. **Second place in section.**
5. Strand JR, Weaver DK, Sterling TM, Peterson RKD. 2023. The importance of smooth brome and parasitoids in wheat stem sawfly biocontrol. 2023 Land Resources and Environmental Sciences Graduate Student Organization Research Colloquium. Montana State University, Bozeman, MT. **First place overall.**
6. Strand JR, Weaver DK, Sterling TM, Peterson RKD. 2022. Using organic volatile compounds to assess the relationship between wheat stem sawfly, parasitoids, and smooth brome. Session: Grad Competition, Plant-Insect Ecosystems: Chemical Ecology 1. Annual Meeting of the Entomological Society of America. Vancouver, BC, Canada.
7. Strand JR, Weaver DK, Sterling TM, Peterson RKD. 2022. Importance of parasitoids and smooth brome for integrated pest management of wheat stem sawfly. 2022. Land Resources and Environmental Sciences Graduate Student Organization Research Colloquium. Montana State University, Bozeman, MT.
8. Strand JR, Weaver DK, Sterling TM, Peterson RKD. 2021. Importance of parasitoids and smooth brome for integrated pest management of wheat stem sawfly. Session: Plant Insect-Ecosystems: IPM – General. Annual Meeting of the Entomological Society of America, Denver, CO.

Contributed presentations at scientific meetings

1. Sing SE, Ward SM, Peterson RKD, Strand JR, Friesenhahn E, Hofland M, Hubbard CE, Randall CB, Weaver DK. 2024. *Biological control of hybrid toadflax: insights from chemical ecology*. National Forum on Biological Control Conference. Annapolis, MD.

Workshops

1. Understanding Wheat Stem Sawfly. 2022 Integrated Pest Management Workshop. Montana State University, Bozeman, MT.

**CO-HOSTED ACADEMIC EVENTS**

2024 LRES-PSPP Student Research Symposium. Hosted by the Land Resources and Environmental Sciences Graduate Student Organization. April 2024. Montana State University, Bozeman, MT.

* Emcee of the event and co-chair of the LRES Graduate Student Organization
* Showcased graduate and undergraduate research in environmental and plant science.
* [Link to website](https://lres-research-symposium.weebly.com/)

2023 LRES GSO Colloquium. Hosted by the Land Resources and Environmental Sciences Graduate Student Organization. April 2023. Montana State University, Bozeman, MT.

* Co-chair of the LRES Graduate Student Organization.
* Showcased graduate and undergraduate research in environmental and land resource science.

2022 LRES Colloquium. Hosted by the Land Resources and Environmental Sciences Graduate Student Organization. April 2022. Montana State University, Bozeman, MT.

* Treasurer of the LRES Graduate Student Organization.
* Showcased graduate and undergraduate research in environmental and land resource science.

**TEACHING**

Montana State University

**Integrated Pest Management** (TA), 3 credits (AGSC 401)

Fall 2023, 20 undergraduates, 10 graduate students

**SERVICE**

Peer Review Activity

Journal of Environmental Entomology 2024 - present

Society Memberships

LRES Graduate Student Organization (Co-chair) 2022 - present

LRES Graduate Student Organization (Treasurer) 2021 - 2022

Entomological Society of America 2021 - present

Montana Grain Growers Association 2022 - present

Active Volunteer

Southwest Montana Mountain Bike Association 2021 - present

Gallatin Watershed Council 2021 - present

Gallatin Valley Land Trust 2021 - present  
Lake Elmo Regional Park Invasive Species Removal 2020 - 2021

**NON-ACADEMIC EMPLOYMENT**

**Pace Analytical- Onsite at 3M** – Regulatory IT Analyst 2017 - 2021

(Maplewood, MN)

* Provided digital support between 3M employees and the 3M Chemical Data Management System (CDMS).
* Integrated, tested, and supported user and data interface between CDMS and SAP.
* Generated, designed, and communicated unique, detailed reports of material information using SQL, Microsoft Excel, and SAP.

**Metropolitan Mosquito Control District** – Mosquito Inspector 2017

(Oakdale, MN)

* Worked on a team to collect and analyze mosquito larvae samples from wetland areas across the St. Paul metropolitan area.
* Independently maintained low adult mosquito populations in Oakdale, MN by surveying and treating both adults and larvae.

**Leatherdale Equine Center** – Barn Maintenance Crew 2015 - 2017

(St. Paul, MN)

* Maintained healthy conditions for equine patients at the University of Minnesota Horse Veterinary Center and Large Animal Hospital.
* Trained and managed new members of the crew.