

# Jared Adam

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## EDUCATION

### **Montana State University**

**PhD** College of Agriculture, Land Resources and Environmental Sciences

PI: Dr. Will Wetzel

*Expected graduation: Summer 2028*

### **The Pennsylvania State University**

*Summer 2024*

**MSc** College of Agricultural Science, Entomology: Graduate Assistantship

Graduate School Teaching Certificate, Schreyer Institute

PI: Dr. John Tooker

GPA: 3.91

#### *Oral Presentation*

- 2023 Entomological Society of America, Annual meeting
  - 10-minute student competition
- 2024 Entomological Society of America, Eastern branch
  - Invited talk in, 'Updates on Biological Control of Pests and Weeds in the Northeast'

#### *Graduate Teaching Assistant (ENT 535)*

*Fall 2023*

- Applied Biostatistics for Entomology and Ecology
- A course on Statistical Techniques in Entomology for graduate students
- Lecture, assist in assignment development and grading, and be the immediate contact for statistical and coding support.
- Course language: R

#### *Graduate Teaching Assistant (ENT 316)*

*Spring 2023*

- Agronomic pests of Pennsylvania
- Developed and graded quizzes and lab materials

#### *Guest Lectures*

- Integrated Pest Management, Fourth-year Plant Science Capstone Course
- Introduction to Agronomy

*Fall 2023*

*Fall 2022, 2023*

**BS** College of Agricultural Science, Agroecology

Minors: International Agriculture, Entomology, and Soil Science

GPA: 3.52

*December 2019*

#### *Undergraduate Teaching Assistant (SOILS 422)*

*Spring 2019*

- Classroom teaching assistant; attended class sessions, field trips, set up course site in the learning management system (Canvas), graded assignments, and created and graded exams under the direction of the faculty member.

## PROFESSIONAL HISTORY

### *Pennsylvania State University, Entomology*

*2022-present*

- Manage the entomology component of Common Experiment 2 (16 states) of the Precision Sustainable Agriculture Grant
  - Responsibilities include protocol troubleshooting, data collection, whole-team data flow and analyses, and fieldwork

- Augmentation experiment
  - Working to quantify the role web-building spiders have as biological control agents in conventional soybeans
- Agroecosystem health
  - Partnered with the Rodale Institute
  - Using microarthropods as biological indicators to determine the ecosystem quality of different agricultural practices/ land-uses
    - E.g., legacy no-till vs. till, organic vs. conventional, etc.

*Pennsylvania State University, Weed Science*

*Jan. 2021- Aug. 2022*

- Full-time research technician in the lab of Dr. John Wallace
  - Managed three projects of the Precision Sustainable Agriculture Grant
    - Common Experiment 1 (CE1): Nitrogen Cycling
    - Common Experiment 2 (CE2): Inter-disciplinary pest interactions
    - On-Farm: Implementing similar field management practices from CE1 and 2 with Pennsylvania growers
- Equipment operation
  - E.g., cultivation, spraying, planting, etc.
- Managed a crew of undergraduates.

*Lehigh Agricultural and Biological Services*

*Apr.-Nov 2020*

- Field research technician
- Managed bid-acquired insecticide efficacy trials within several agricultural and forest ecosystems.
- Colorado Potato Beetle and Potato Aphid (2018, 2020), Spotted Lanternfly (2018, 2020), Alfalfa insect diversity (2018), Mushroom fly set up (2018), Peppers (2018)

*Summer 2016, 2018*

*Peace Corps Nepal\**

*Feb.- March 2020*

- \*Evacuated from Peace Corps Nepal due to COVID-19 (3/22/2020)
- Participated in 7 weeks of language and technical training.
- Lived with Nepali family for the entire duration of training.
- Worked in Nepali agricultural systems.

*Weed Science Department (Undergraduate)*

*Fall 2018- Jan. 2020*

- Herbicide testing and evaluation of efficacy
- Weed control tactics/ management strategies
- Weed identification
- Organic and conventional systems

*Weed Science Society of America research grant recipient (\$2000)*

*May 2019-Jan. 2020*

- Studying glyphosate-resistant horseweed combatted with management strategies and herbicide application tactics, 40 hours/week (summer 2019), research facilitated through the Weed Science Department at Pennsylvania State University
- Poster presentation at Northeastern Plant, Pest, and Soil Conference (January 2020)

*PlantVillage application scouting in Kenya and Togo*

*May-June 2018*

- Scouted for Fall Armyworm damage on maize in Kenya (3 weeks), continued work in Togo and tested several versions of the revised software on Fall Armyworm in corn (1 week).

*Kenya (Children and Youth Empowerment Center)*

*May-June 2018*

- Dry season silage production and crop rotation/ climate change adaptation

*Camp Counselor- Outdoor School*

*March 2018, 2019*

- Counselor for 10-15 middle school-aged children for two, one-week periods

- Fall 2017: Apple and pear orchard
  - Harvested and graded apples and pears
- Spring 2018: Tree fruit lab and vineyard
  - Purpose: to determine if fit for human consumption
  - Performed grape juice chemistry testing for sugar, pH, and titratable acids.

## **ARTICLES AND PUBLICATIONS**

- Author: Introduction to R tutorial: “One Code to Rule Them All”, 6/6/2023
  - <https://jared-adam-psu.github.io/R-Tutorial-for-Tooker-Lab/>
- Co-author: “Why are snails and slugs so slow?”. The Conversation, 4/3/2023
  - <https://theconversation.com/why-are-snails-and-slugs-so-slow-199376>

## **EXTRACURRICULAR**

- Active President and Co-founder of the Graduate and Professional Outdoor Club (GPOC) at Penn State.
- Tussey Mountain Ski Patrol basic and advanced rope management and chair lift evacuation trainer
- Certified sport climbing instructor (CWI) through the American Mountain Guides Association (AMGA)

## **CERTIFICATIONS**

- Licensed commercial chemical applicator (CORE) (Pennsylvania)
- Licensed research chemical applicator (Category 18) (Pennsylvania)

## **SCHOLARSHIPS**

- Agricultural Science Alumni Internship Award (Spring 2019)
- Fehnel Scholarship in Agroecology (Fall 2018-Spring 2019)
- Wolfe Scholarship in Agriculture (Fall 2018-Spring 2019)
- Harbaugh Fund for International Experiences (Summer 2018)

## **CONTINUING EDUCATION**

- Paraquat Application Certification (June 2020)
- Spotted Lanternfly Permit Training for Penn State Extension (May 2019)
- Fundamentals of Coaching; First Aid Health and Safety (August 2018, May 2016)

## **SERVICE**

- National Ski Patrol; 2021-2024
- Earth Day Spring Creek clean up; 2018
- Operation Christmas Child; December 2016
- Oley Valley High School Volunteer Assistant Wrestling Coach; 2014-2020
- Berkshire Baseball Organization Volunteer Baseball Coach; 2013-2014

## **REFERENCES**

- Dr. Sara Hermann; Assistant Professor of Arthropod Ecology and Trophic Interactions at The Pennsylvania State University
  - [SLH@psu.edu](mailto:SLH@psu.edu)
- Dr. John Wallace; Assistant Professor of Weed Science at The Pennsylvania State University
  - [Jmw309@psu.edu](mailto:Jmw309@psu.edu)
- Dr. James Steffel; Founder of Lehigh Agricultural and Biological Services
  - [jim@labservices.com](mailto:jim@labservices.com)

- Dr. John Tooker; Professor of Entomology at The Pennsylvania State University
  - [tookjer@psu.edu](mailto:tookjer@psu.edu)