

## Karly H. Regan, Ph.D.

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### SUMMARY

Eight years of specialized training and knowledge in agricultural science and innovative approaches to improving crop production and pest management. Skilled at identifying stakeholder needs and delivering solutions. Great collaborator and leader who works with many faculty and students as an effective team to collect data, provide practical analysis of production practices, and improve crop production.

### KEY SKILLS

- Practical analyzer
- Detail-oriented
- Highly motivated
- Problem solver
- Trained leader
- Efficient manager
- Excellent collaborator
- Clear communicator
- Forward thinker

### RECENT EMPLOYMENT

Postdoctoral Associate, Department of Entomology, Cornell University, Geneva, NY June 2019-present

Graduate Research Assistant, Department of Entomology, Penn State University June 2015-May 2019

### ACCOMPLISHMENTS

- Funded graduate research through four successful peer-reviewed grant applications, exceeding \$24,000
- Have given 18 technical presentations and 13 non-technical presentations, reaching 360 scientists and 525 agricultural stakeholders total
- Preparation of eight reports of project results and progress for grant agencies
- Published five peer-reviewed articles and one fact sheet
- Coordinated a monthly non-technical science communication event, reaching 30-50 people per month

### SKILLS AND EXPERIENCE

- Analysis of stakeholder priorities to direct research programs
- Development of materials to support integrated pest management program implementation
- Leadership and tracking of integrated pest management program applications and monitoring of program effectiveness

- Establishment and maintenance of positive and cooperative working relations with diverse stakeholders, including growers, private organizations, other federal, state and local agencies
- Collaboration to develop joint information material on enhancing adoption of pest management programs and sustainable cropping practices on working agricultural lands
- Research fund, budget, and data management
- Design and management of field research experiments
- Website design and maintenance for academic, extension, and outreach audiences
- Outreach and extension activities for culturally diverse populations, including integrated pest management program opportunities and opportunities to incorporate sustainable land management practices
- Facilitation of a semi-monthly seminar series to exchange knowledge and techniques amongst diverse scientists

## SELECT PUBLICATIONS AND PRESENTATIONS

**Regan, K. H.,** C. A. M. Voortman, and M. E. Barbercheck. 2020. Prevalence of Early and Late Season Pest Damage in Cover Crop-Based Reduced-Tillage Organic Corn Systems. *Environmental Entomology*: 49(4): 865–875.

**Rowen, E. K., K. H. Regan, M. E. Barbercheck and J. F. Tooker. 2020.** Is tillage beneficial or detrimental to insect and slug management? A meta-analysis. *Agriculture, Ecosystems and Environment*, *in press*. [DOI link to article.](#)

**Regan, K.** “Effects of Reduced Tillage on Beneficial Arthropods.” Invited presentation, Soil Health Workshop, Empire Farm Days, Seneca Falls, NY. August 2019.

Barbercheck, M., B. Baraibar, and **K. Regan.** “Weed and Insect Management in a Reduced-Tillage Organic Systems Experiment.” ROSE Field Tour for visiting Khazak farmers and agricultural consultants, Russell E. Larson Agricultural Research Center, Rock Springs, PA. September 2018.

Schmidt, E., **K. Regan,** and M. Barbercheck. 2017. Seedcorn maggot as a pest of corn and other large seeded crops. [Penn State Extension Fact Sheet.](#)

## EDUCATION

Ph.D. in Entomology, Penn State University, University Park, PA 2019

M.S. in Plant Science, South Dakota State University, Brookings, SD 2015

B.S. in Biology, Minor in Women, Gender, and Sexuality Studies, University of Massachusetts, Amherst, MA 2012

## ADDITIONAL TRAINING AND CERTIFICATIONS

Postdoc Leadership Training Course, Cornell University, completed March 2020

Certificate in College Teaching, Penn State University, completed August 2018

Certificate in Teaching with Technology, Penn State University, completed March 2016