

## Ashley N. Dean

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2011 ATRB, 2213 Pammel Dr.  
Department of Plant Pathology, Entomology and Microbiology  
Iowa State University  
Ames, IA 50011-1101  
Web: <https://www.ppem.iastate.edu/people/ashley-dean>

Phone: (515) 447-3766  
Email: [adean@iastate.edu](mailto:adean@iastate.edu)  
X (Twitter): [@ashleyn\\_dean](https://twitter.com/ashleyn_dean)

## Education

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### **M.S. Entomology** – Iowa State University, Ames, Iowa

May 2017 to December 2019 | Minor: Crop Production & Physiology

Advisers: Drs. Matthew O’Neal and Erin Hodgson

Thesis: What are the consequences of resistance? Exploring the impacts of insecticide and host-plant resistance for insect pest management (<https://lib.dr.iastate.edu/etd/17665>)

### **B.S. Agronomy** – Iowa State University, Ames, Iowa

August 2013 to May 2017 | Minor: General Business

## Work Experience

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**Education Extension Specialist I – Field Crop Entomology** (Jan 2020 – present) | Department of Plant Pathology, Entomology, and Microbiology, Iowa State University, Ames, IA

### Extension (50%):

- Coordinator for the Regional Corn Rootworm Adult Monitoring Network
  - Organize regional collaborators from 12 U.S. states and 5 provinces in Canada, and coordinate shipping and distribution of materials
  - Maintain regional website: <https://cornrootworm.extension.iastate.edu/>
  - Secured funding for 2022 and 2023, and developed shared objectives and protocol
- Co-PI and coordinator of the Iowa Pest Alert Network
  - Recruit subscribers (244 as of 6/9/23)
  - Use *Simple Texting* to send text messages
  - Maintain website: <https://pestalerts.extension.iastate.edu/>
- Coordinator for the Iowa Moth Trapping Network; true armyworm and black cutworm monitoring
  - Organize 50 volunteer cooperators from Iowa from April–June
  - Collaborate with Ag Pest Monitor and Corn IPMpipe for data entry and mapping
- Collaborate with Iowa Environmental Mesonet: Pest Forecasting Tool <https://go.iastate.edu/HXOWPQ>
- Member of the ANR Extension Crops Team
  - Frequent invited speaker
  - Contributor to Integrated Crop Management (ICM) News, Blog, and Encyclopedia

Research (50%):

- Co-project leader for the Iowa insecticide efficacy evaluation for soybean aphid, Japanese beetle, and soybean gall midge
- Other research efforts include multi-species moth trapping; insecticide efficacy evaluations for corn pests and bean leaf beetle; estimating soybean defoliation, and evaluating insect populations in corn following cover crops
- Iowa cooperator for University of Minnesota's *Aphelinus* survey (2018-2021)
- Iowa cooperator for the University of Minnesota's soybean gall midge parasitoid survey (2023-present)
- Software proficiency: Microsoft Office, Adobe Creative Suites, SigmaPlot, ArcGIS Pro, Poll Everywhere, SimpleTexting, and SAS

**Graduate Research Assistant** (May 2017 – December 2019) | Department of Entomology, Iowa State University, Ames, IA | Co-advised by Drs. Matthew O'Neal and Erin Hodgson

- Compared soybean aphid susceptible and resistant varieties in different yield environments
- Created a budget for soybean aphid management tactics and developed an economic model for insect pest management, incorporating probabilities of resistant pests
- Coordinated the Iowa Moth Trapping Network; true armyworm, black cutworm, and European corn borer monitoring
- Co-project leader for the Iowa insecticide efficacy evaluation for soybean aphid and Japanese beetle
- Assisted with lab research activities, including but not limited to: developing a protocol for residual testing of a new insecticide, defoliation studies in soybean, and insecticide efficacy evaluations in corn
- Performed aphid colony maintenance of field-collected populations
- Managed undergraduate students during field work
- Mentored a new entomology graduate student
- Collected and curated insects for archival

**South Central Iowa Agronomy Sales Intern** (May – August 2016) | DuPont Pioneer, Johnston, IA

- Took soil samples, stand counts, and disease ratings and scouted for pests, and entered data
- Attended meetings with the sales team

**Insect Trait Characterization Intern I** (May – August 2015) | DuPont Pioneer, Johnston, IA

- Assisted with corn rootworm research efforts, including infesting plots with western corn rootworm eggs; conducting pressure checks at six research locations; and digging, washing, and rating roots
- Infested corn and soybean trials with insect pests and rated damage severity
- Oversaw and trained field employees in daily tasks and proper field procedures

**Undergraduate Research Assistant** (August 2014 – May 2016) | Iowa State University, Ames, IA

- Extracted corn embryos for genetic analysis
- Weighed, shelled, and conditioned seed samples
- Conducted warm and cold germination tests
- Analyzed corn seedlings for growth defects and abnormalities

**Research Technician Intern** (May – August 2014) | Easton Agri-Consulting, Bagley, IA

- Planted and maintained research plots, including hand planting or planting with custom research equipment, weeding, and watering
- Collected soil samples with hand probe and tractor probe and collected tissue samples on various row and vegetable crops
- Took stand counts and weed and disease ratings, mixed chemicals, and hand-pollinated corn

**Teaching Assistant** (August 2013 – May 2017) | Iowa State University, Ames, IA

- Graded coursework for five agronomy classes and entered data
- Assisted professor with tasks involving greenhouse work, seed organization, and contest preparations

**Scholarships**

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1. Dr. Jean L. Laffoon Memorial Scholarship, Iowa State University, 2018
2. Cain and Bogle Family Graduate Fellowship, Iowa State University, 2018
3. Iowa Seed Association Scholarship, 2017
4. ASA Golden Opportunity Scholar, 2016
5. Agronomy Academic Fellowship, Iowa State University, 2013 – 2017
6. Academic Recognition Award, Iowa State University, 2013 – 2017
7. Cardinal Scholar Award, Iowa State University, 2013 – 2015

**Awards**

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1. ESA Student Paper Competition, November 2019 – 2<sup>nd</sup> place
2. ISU GPSA M.S. Poster Competition, April 2019 – 3<sup>rd</sup> place
3. ESA-NCB M.S. Paper Competition, March 2019 – 2<sup>nd</sup> place
4. ASA Student Paper Competition, November 2018 – 3<sup>rd</sup> place
5. ESA-NCB M.S. Paper Competition, March 2018 – 2<sup>nd</sup> place
6. ISU GPSA M.S. Poster Competition, April 2018 – 2<sup>nd</sup> place

**Professional Memberships**

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1. Entomological Society of America, since 2017
2. ASA-CSSA-SSSA, 2016-2020
3. National Society of Collegiate Scholars, since 2014
4. Entomology Graduate Student Organization, 2017 – 2019
5. Sustainable Agriculture Student Association member, 2017 – 2018

## Extension Presentations

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### Events:

1. Crop Scout School | May 17, 2023 | Crawfordsville, IA – Insect identification, sampling, and management. Erin Hodgson and **Ashley Dean**. 45 participants.
2. Crop Advantage Series | January 5, 2023 | Burlington, IA – Direct destruction: how to manage late-season pests. Erin Hodgson and **Ashley Dean**. 25 participants.
3. Crop Advantage Series – Throwing the kitchen sink at soybean gall midge. Erin Hodgson and **Ashley Dean**.
  - a. Webster City, IA; January 11, 2023 – 40 participants, 2 sessions.
  - b. Ankeny, IA; January 17, 2023 – 30 participants, 2 sessions.
4. Crop Advantage Series | January 25, 2023 | Coralville, IA – Rootworms get the boot! Erin Hodgson, **Ashley Dean**, and Aaron Gassmann. 30 participants.
5. Crop Scout School | May 19, 2022 | Cedar Rapids, IA – Insect identification, sampling, and management. Erin Hodgson and **Ashley Dean**. 40 participants.
6. Crop Advantage Series – Corn rootworm management. Erin Hodgson, **Ashley Dean**, and Aaron Gassmann.
  - a. Burlington, IA; January 6, 2022 – 30 participants, 2 sessions.
  - b. Ankeny, IA; January 12, 2022 – 45 participants.
  - c. Atlantic, IA; January 20, 2022 – 55 participants.
7. Crop Advantage Series | January 20, 2022 | Atlantic, IA – Updates on soybean gall midge and fall armyworm. Erin Hodgson and **Ashley Dean**. 55 participants.
8. CropsTV | pre-recorded – Trapping networks in Iowa: moths, corn rootworms, and implications for IPM. **Ashley Dean** and Erin Hodgson. 30 YouTube views.
9. 2021 Virtual Crop Scout School | webinar | Crop Protection Network – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 68 recording views (as of 11/5/2021)
10. CropsTV | December 1, 2020 | via Zoom – Soybean pest update. Erin Hodgson and **Ashley Dean**. 100 participants during live show; 758 recording views.
11. Field Crop Scout School | March 7, 2020 | Ames, IA – Insect identification, sampling and management. **Ashley Dean** and Erin Hodgson. 47 participants, 2 sessions.
12. Crop Management Clinic | July 11, 2019 | Boone, IA – 22 participants
  - a. Corn insect pest updates. Erin Hodgson and **Ashley Dean**.
  - b. Soybean IPM and defoliation estimates. Erin Hodgson and **Ashley Dean**.
13. Crop Scout School | March 30, 2019 | Boone, IA – Insect identification, sampling, and management. Erin Hodgson, and **Ashley Dean**. 30 participants.
14. Crop Advantage Series – Fly in the ointment: soybean gall midge is a new pest. Erin Hodgson, Justin McMechan, and **Ashley Dean**.
  - a. Le Mars, IA; January 22, 2019 – 50 participants
  - b. Atlantic, IA; January 24, 2019 – 100 participants
  - c. Iowa City, IA; January 29, 2019 – 58 participants, 2 sessions.
15. Ag Chemical Dealer Update | December 12, 2018 | Ames, IA – Fly in the ointment: soybean gall midge is a new pest. Erin Hodgson, Justin McMechan, and **Ashley Dean**. 66 participants.
16. Crop Scout School | March 25, 2018 | Boone, IA – Introduction to insect diagnostics. Erin Hodgson, and **Ashley Dean**. 45 participants.

**Field Days:**

1. ISU Northwest Research Farm Field Day | July 12, 2023 | Sutherland, IA – Corn rootworm management. Erin Hodgson and **Ashley Dean**. 40 participants.
2. Corn rootworm management demonstrations. Erin Hodgson and **Ashley Dean**.
  - a. Lewis, IA; June 29, 2022 – 50 participants.
  - b. Boone, IA; July 6, 2022 – 12 participants.
  - c. Crawfordsville, IA; July 7, 2022 – 75 participants, 2 sessions.
  - d. Kanawha, IA; July 12, 2022 – 16 participants.
  - e. Sutherland, IA; July 13, 2022 – 55 participants.
  - f. Nashua, IA; July 19, 2022 – 15 participants.
3. ISU Southeast Research Farm Fall Field Day | September 9, 2021 | Crawfordsville, IA – Corn rootworm update. Erin Hodgson and **Ashley Dean**. 25 participants.
4. Champion Seed Field Day | August 25, 2020 | Boone, IA – Corn rootworm update. Erin Hodgson and **Ashley Dean**. 40 participants, 3 sessions.
5. Dordt Field Days | September 4, 2019 | Sioux Center, IA – Soybean gall midge update. **Ashley Dean** and Mitchell Helton. 120 participants, 3 sessions.

**Conferences – Submitted Talks:**

1. NC-246 Meeting | January 26, 2022 | via Zoom – Regional corn rootworm monitoring network: recap of 2021. **Ashley Dean** and Erin Hodgson. 65 participants.
2. Integrated Crop Management Conference | December 1-2, 2021 | Ames, IA
  - a. IPM 101. Meghan Anderson and **Ashley Dean**. 70 participants.
  - b. Insect trapping networks in Iowa: moths, corn rootworms, and implications for integrated pest management (IPM). **Ashley Dean** and Erin Hodgson. 65 participants.
3. Integrated Crop Management Conference | December 4, 2019 | Ames, IA – Building a budget for pest resistance. **Ashley Dean**, Matthew O’Neal, Erin Hodgson, Ivair Valmorbidia, Jessica Hohenstein, and Brad Coates. 120 participants, 2 sessions.

**Conferences - Invited Symposia:**

1. North Central Branch of ESA – Using Technology to Cross-Pollinate Extension Entomologists and Their Clients | April 19, 2023 | Oklahoma City, OK – Midwest pest alert network. **Ashley Dean** and Erin Hodgson. 20 participants.
2. Midwest Forage Association Symposium 2023 | February 21, 2023 | Wisconsin Dells, WI – Use of alfalfa to confuse corn rootworms. Erin Hodgson, **Ashley Dean**, and Aaron Gassmann. 70 participants.
3. North Central Branch of ESA – Highlights of Field Crop Insect Pest Management: Invasive and Resistant Pests symposium | March 21, 2022 | Minneapolis, MN – Creating a regional sticky trap network for corn rootworm adults: take-aways from year one. **Ashley Dean** and Erin Hodgson. 45 participants.
4. Entomological Society of America – Trapping Networks: Using Areawide Trap Data to Improve Pest Management symposium | November 3, 2021 | virtual submission – Creating a regional sticky trap network for corn rootworm adults: take-aways from year one. **Ashley Dean**. 22 recording views.

**Youth Events:**

1. 4-H Conference Workshop | June 28, 2023 | Boone, IA – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 18 participants.
2. Ms. Oleson's 2<sup>nd</sup> grade class | March 29, 2023 | via Zoom – Why is moth trapping important? **Ashley Dean**. 17 participants (15 youth).
3. 4-H Ag Innovators Experience | March 25, 2023 | Ames, IA – Entomology workshop – identify, scout, and manage insect pests. **Ashley Dean**. 30 participants (20 youth, 10 adults).
4. 4-H Conference Workshop | June 30, 2022 | Boone, IA – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 15 participants.
5. Ms. Oleson's 2<sup>nd</sup> grade class | April 4, 2022 | via Zoom – Why is moth trapping important? **Ashley Dean**. 17 participants (15 youth).
6. Precision Ag and Animal Science Days | September 5, 2019 | Sutherland, IA – What's bugging crops? **Ashley Dean** and Caleb Corona. 85 participants, 7 sessions.
7. 4-H Conference Workshop | June 25, 2019 | Ames, IA – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 17 participants.
8. 4-H Conference Workshop | June 27, 2018 | Ames, IA – Insect identification, sampling, and management. Erin Hodgson and **Ashley Dean**. 13 participants.

**In-Service:**

1. ANR Extension Faculty Meeting | May 2, 2023 | Ames, IA – Why you “need” need assessment in your impactful extension program. 28 participants.
2. 2023 Crops Team Spring In-Service | March 22, 2023 | Boone, IA – Pest alert network and regional corn rootworm monitoring network updates. **Ashley Dean** and Erin Hodgson. 20 participants.
3. 2021 Crops Team Fall In-service | September 22, 2021 | Boone, IA – Corn rootworm trapping network summary. **Ashley Dean**. 20 participants.

**Posters:**

1. Joint Annual Meeting (Entomological Society of America, Entomological Society of Canada, and the Entomological Society of British Columbia | November 15, 2022 | Vancouver, Canada – Corn rootworm extension in Iowa...by the numbers. Erin Hodgson and **Ashley Dean**.

**Guest Lectures**

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1. Agronomy 279 | August 11, 2023 | Boone, IA – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 40 participants, 2 sessions.
2. New Century FS | June 26, 2023 | Toledo, IA – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 20 participants.
3. Growmark | November 21, 2022 | Ames, IA – Throwing the kitchen sink at soybean gall midge. **Ashley Dean** and Erin Hodgson. 35 participants.
4. Pests and Progress Webinar | August 17, 2022 | online – Creating a regional trapping network for corn rootworm adults. **Ashley Dean**. 9 participants, XX recording views.
5. Agronomy 279 | August 11, 2022 | Boone, IA – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 42 participants, 2 sessions.

6. Agronomy 594 | July 14, 2022 | Boone, IA – Corn rootworm. Erin Hodgson and **Ashley Dean**. 25 participants.
7. Loveland/Nutrien | March 25, 2022 | via Teams – Chlorpyrifos tolerance revoked: what does it mean? **Ashley Dean** and Erin Hodgson. 18 participants.
8. Hoegemeyer | November 23, 2021 | Ames, IA – Corn rootworm management. **Ashley Dean**, Erin Hodgson, and Aaron Gassmann. 30 participants.
9. Wyffels | October 25, 2021 | via Zoom – Corn rootworm update. Erin Hodgson and **Ashley Dean**. 5 participants.
10. Agronomy 279 | August 16, 2021 | Boone, IA – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 45 participants.
11. Loveland/Nutrien | May 19, 2021 | via Teams – Black cutworm: sampling and management. **Ashley Dean**. 30 participants.
12. Agronomy 279 | August 14, 2019 | Boone, IA – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 45 participants, 2 sessions.
13. Agronomy 594 | July 18, 2018 | Boone, IA – Insect identification, sampling, and management. Erin Hodgson and **Ashley Dean**. 28 participants.
14. Agronomy 279 | August 14, 2018 | Boone, IA – Insect identification, sampling, and management. Erin Hodgson and **Ashley Dean**. 20 participants.

## Research Presentations

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### Invited Papers:

1. Soybean Breeders Workshop – Soybean Aphid Session | February 23, 2021 | via Zoom – Developing a decision-making framework for pest management. **Ashley Dean**. 110 participants.

### Conference Papers:

1. Entomological Society of America | November 18, 2019 | St. Louis, MO – Optimizing profit for farmers managing soybean aphid. **Ashley Dean**, Jarad Niemi, John Tyndall, Erin Hodgson, and Matthew O’Neal.
2. ISU Department of Entomology Exit Seminar | October 21, 2019 | Ames, IA – What are the consequences of resistance? Exploring the impacts of insecticide and host-plant resistance for insect pest management. **Ashley Dean**.
3. Entomological Society of America – North Central Branch | March 18, 2019 | Cincinnati, OH – Optimizing profit for farmers managing soybean aphid. **Ashley Dean**, Jarad Niemi, John Tyndall, Erin Hodgson, and Matthew O’Neal.
4. Entomological Society of America | November 13, 2018 | Vancouver, Canada – Residual testing study of Sefina on soybean aphid. Erin Hodgson, Christa Ellers-Kirk, Greg VanNostrand, and **Ashley Dean**.
5. American Society of Agronomy: Applied Soybean Research Session | November 6, 2018 | Baltimore, MD – Using soybean genetics to evaluate the value of soybean aphid management tactics. **Ashley Dean**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal.
6. Entomological Society of America – North Central Branch | March 19, 2018 | Madison, WI – Using soybean genetics to evaluate the value of soybean aphid management tactics. **Ashley Dean**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal.
7. Entomological Society of America | November 13, 2018 | Vancouver, BC, Canada – Residual testing study of Sefina™ on soybean aphid. Hodgson, Erin, Christa Ellers-Kirk, Greg VanNostrand, and **Ashley Dean**.

**Posters:**

2. Graduate Program in Sustainable Agriculture (GPSA) Poster Competition | April 17, 2019 | Ames, IA – Optimizing profit for farmers managing soybean aphid. **Ashley Dean**, Jarad Niemi, John Tyndall, Erin Hodgson, and Matthew O’Neal.
3. Graduate Program in Sustainable Agriculture (GPSA) Poster Competition | April 18, 2018 | Ames, IA – Using soybean genetics to evaluate the value of soybean aphid management tactics. **Ashley Dean**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal.
4. Graduate & Professional Student Senate (GPSS) Research Conference | April 11, 2018 | Ames, IA – Using soybean genetics to evaluate the value of soybean aphid management tactics. **Ashley Dean**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal.
5. Entomological Society of America annual meeting | November 5-8, 2017 | Denver, CO – Optimizing yield environments and soybean genetics for soybean aphid management. **Ashley Dean**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal.
6. Global Food Security Consortium & the Leroy and Barbara Everson Seed and Biosafety Symposium | April 13-14, 2016 | Ames, IA – Physiological and Morphological Effects of Chemical Defoliation on Seed Corn. Katharina Wigg, **Ashley Dean**, A. Susana Goggi, and Erik Christian.
7. Symposium on Undergraduate Research & Creative Expression | April 5, 2016 | Ames, IA - Physiological and Morphological Effects of Chemical Defoliation on Seed Corn. Katharina Wigg, **Ashley Dean**, A. Susana Goggi, and Erik Christian.

*All peer-reviewed publications, newsletter articles, reports, and other publications can be found on my Google Scholar profile: <https://scholar.google.com/citations?user=8K7MphcAAAAJ&hl=en>.*

**Journal Articles**

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**Extension:**

1. Hodgson, Erin W., **Ashley N. Dean**, and Marlin E. Rice. 2021. Recognizing feeding injury to corn ears in the U.S. *Journal of Integrated Pest Management*, *in prep*.
2. **Dean, Ashley N.**, Erin W. Hodgson, Angie Reick-Hinz, and Meaghan Anderson. 2021. Needs assessment for corn insect pest management in Iowa. *Journal of Integrated Pest Management*, DOI: <https://doi.org/10.1093/jipm/pmab021>.
3. Hodgson, Erin, **Ashley Dean**, and Zhenzhong Wang. 2020. Using an immediate feedback tool to improve learning and facilitate program evaluation. *Journal of Extension*, 58(4): v58-4rb4. <https://archives.joe.org/joe/2020august/rb4.php>.
4. Shanovich, Hailey N., **Ashley N. Dean**, Robert L. Koch, and Erin W. Hodgson. 2019. Biology and management of the Japanese beetle in corn and soybean. *Journal of Integrated Pest Management*, DOI: <https://doi.org/10.1093/jipm/pmz015>.

**Research:**

1. **Dean, Ashley N.**, Katharina Wigg, Everton Zambiazzi, Erik J. Christian, A. Susana Goggi, Aaron Schwarte, Jeremy Johnson, and Edgar Cabrera. 2021. Migration of oil bodies in embryo cells during acquisition of desiccation tolerance in chemically-defoliated corn (*Zea mays* L.) seed production fields. *Agriculture*, 11(2): 129. DOI: <https://doi.org/10.3390/agriculture11020129>.



2. **Dean, Ashley N.**, Jarad B. Niemi, John C. Tyndall, Erin W. Hodgson, and Matthew E. O’Neal. 2020. Developing a decision-making framework for insect pest management: a case study using *Aphis glycines* (Hemiptera: Aphididae). *Pest Management Science*, 77: 886-894. DOI: <https://doi.org/10.1002/ps.6093>.
3. Hodgson, Erin W., **Ashley N. Dean**, Greg VanNostrand, and Christa Eilers-Kirk. 2020. Developing a residual testing protocol for soybean aphid (Hemiptera: Aphididae). *The Journal of the Kansas Entomological Society*, 93: 24-33. DOI: <https://doi.org/10.2317/0022-8567-93.1.24>.
4. **Dean, Ashley N.**, Shelby Pritchard, John C. Tyndall, Erin W. Hodgson, and Matthew E. O’Neal. 2019. Evaluating soybean aphid resistant varieties in different environments to estimate financial outcomes. *Journal of Economic Entomology*, 113(2): 940–948. DOI: <https://doi.org/10.1093/jee/toz309>.

## Newsletter Articles

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1. **Dean, Ashley**, Erin Hodgson, and Meaghan Anderson. Watch alfalfa for blister beetles. In *Integrated Crop Management Blog*. July 14, 2023.
2. **Dean, Ashley**, and Erin Hodgson. It’s time to check whether corn rootworm management worked. In *Integrated Crop Management News*. June 26, 2023.
3. **Dean, Ashley**, and Erin Hodgson. Japanese beetle adults now emerging. In *Integrated Crop Management News*. June 16, 2023.
4. Michel, Josh, **Ashley Dean**, and Denise Schwab. Scout now for true armyworm in pastures and hay as well as corn and soybean. In *Integrated Crop Management Blog*. June 15, 2023.
5. **Dean, Ashley**, and Erin Hodgson. What’s been “bugging” crops in Iowa lately? In *Integrated Crop Management Blog*. June 9, 2023.
6. **Dean, Ashley**, and Erin Hodgson. Soybean gall midge adults now emerging. In *Integrated Crop Management News*. June 8, 2023.
7. **Dean, Ashley**. 2023 Iowa moth trapping network updates. In *Integrated Crop Management Blog*.
  - a. Final Iowa moth trapping network update for 2023. June 6, 2023.
  - b. 2023 Iowa moth trapping network update: Week 7. May 25, 2023.
  - c. 2023 Iowa moth trapping network update: Week 6. May 18, 2023.
  - d. 2023 Iowa moth trapping network update: Week 5. May 9, 2023.
  - e. 2023 Iowa moth trapping network update: Week 4. May 3, 2023.
  - f. 2023 Iowa moth trapping network update: Week 3. April 26, 2023.
  - g. 2023 Iowa moth trapping network update: Week 2. April 20, 2023.
  - h. 2023 Iowa moth trapping network update: Week 1. April 12, 2023.
8. **Dean, Ashley**, and Erin Hodgson. Stalk borers are migrating to corn. In *Integrated Crop Management News*. June 6, 2023.
9. **Dean, Ashley**, and Erin Hodgson. Scout alfalfa for weevils and aphids. In *Integrated Crop Management Blog*. May 25, 2023.
10. **Dean, Ashley**, and Erin Hodgson. Join the corn rootworm adult monitoring network in 2023. In *Integrated Crop Management Blog*. May 19, 2023.
11. **Dean, Ashley**, and Erin Hodgson. Scout for black cutworm in corn early this year. In *Integrated Crop Management News*. May 8, 2023.
12. **Dean, Ashley**, and Erin Hodgson. Soybean aphid egg hatch is complete. In *Integrated Crop Management News*. May 4, 2023.

13. **Dean, Ashley**, and Erin Hodgson. Variable overwintering success for bean leaf beetles this year. In Integrated Crop Management News. April 26, 2023.
14. **Dean, Ashley**, and Erin Hodgson. Alfalfa weevil larvae active in southern Iowa. In Integrated Crop Management News. April 20, 2023.
15. **Dean, Ashley**, and Erin Hodgson. Seedcorn maggot activity beginning in southern Iowa. In Integrated Crop Management News. April 10, 2023.
16. Rieck-Hinz, Angie, and **Ashley Dean**. Insect management resources. In Integrated Crop Management Blog. March 6, 2023.
17. **Dean, Ashley**, and Erin Hodgson. Join the Iowa moth trapping network in 2023. In Integrated Crop Management Blog. February 15, 2023.
18. **Dean, Ashley**, and Erin Hodgson. 2022 regional corn rootworm monitoring network report available online. In Integrated Crop Management Blog. January 13, 2023.
19. **Dean, Ashley**, Erin Hodgson, and Meaghan Anderson. Sap beetles in corn: are they pests? In Integrated Crop Management News. September 23, 2022.
20. **Dean, Ashley**, and Erin Hodgson. New Iowa counties confirmed with soybean gall midge in 2022. In Integrated Crop Management Blog. August 24, 2022.
21. **Dean, Ashley**, and Erin Hodgson. Dry conditions causing spider mite issues throughout Iowa. In Integrated Crop Management Blog. August 11, 2022.
22. **Dean, Ashley**, and Erin Hodgson. Use sticky traps to monitor corn rootworm beetles this summer. In Integrated Crop Management Blog. July 22, 2022.
23. **Dean, Ashley**, and Erin Hodgson. Assess roots now to evaluate corn rootworm management strategies. In Integrated Crop Management Blog. July 12, 2022.
24. **Dean, Ashley**, and Erin Hodgson. Corn rootworm egg hatch behind schedule this year. In Integrated Crop Management News. June 21, 2022.
25. **Dean, Ashley**, and Erin Hodgson. Japanese beetle adult emergence begins in southern Iowa. In Integrated Crop Management News. June 21, 2022.
26. Hodgson, Erin, and **Ashley Dean**. First soybean aphids of 2022. In Integrated Crop Management Blog. June 17, 2022.
27. **Dean, Ashley**, and Erin Hodgson. Soybean gall midge adult emergence begins. In Integrated Crop Management News. June 17, 2022.
28. **Dean, Ashley**, and Erin Hodgson. Start scouting for stalk borers in southern Iowa. In Integrated Crop Management News. June 10, 2022.
29. **Dean, Ashley**, and Erin Hodgson. Corn rootworm demonstrations in Iowa this summer. In Integrated Crop Management Blog. June 9, 2022.
30. **Dean, Ashley**, Meaghan Anderson, and Erin Hodgson. Scout for true armyworm this spring. In Integrated Crop Management News. June 7, 2022.
31. **Dean, Ashley**. 2022 Iowa moth trapping network updates. In Integrated Crop Management Blog.
  - a. Final Iowa moth trapping network update for 2022. June 1, 2022.
  - b. 2022 Iowa moth trapping network update: Week 8. May 25, 2022.
  - c. 2022 Iowa moth trapping network update: Week 7. May 18, 2022.
  - d. 2022 Iowa moth trapping network update: Week 6. May 11, 2022.
  - e. 2022 Iowa moth trapping network update: Week 5. May 4, 2022.
  - f. 2022 Iowa moth trapping network update: Week 4. April 28, 2022.

- g. 2022 Iowa moth trapping network update: Week 3. April 20, 2022.
  - h. 2022 Iowa moth trapping network update: Week 2. April 14, 2022.
  - i. 2022 Iowa moth trapping network update: Week 1. April 7, 2022.
32. **Dean, Ashley**, and Erin Hodgson. Sign up for the Iowa Pest Alert Network. In Integrated Crop Management Blog. May 31, 2022.
  33. **Dean, Ashley**, and Erin Hodgson. Join the corn rootworm adult monitoring network in 2022. In Integrated Crop Management Blog. May 16, 2022.
  34. **Dean, Ashley**, and Erin Hodgson. Begin scouting for black cutworm in corn. In Integrated Crop Management News. May 13, 2022.
  35. **Dean, Ashley**, and Erin Hodgson. Soybean aphid egg hatch nearly complete. In Integrated Crop Management News. May 11, 2022.
  36. **Dean, Ashley**, and Erin Hodgson. New pest forecasting page on the Mesonet website. In Integrated Crop Management Blog. May 2, 2022.
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55. **Dean, Ashley**, and Erin Hodgson. Record year for alfalfa weevil. In Integrated Crop Management Blog, June 10, 2021.
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57. **Dean, Ashley**. 2021 Iowa moth trapping network updates. In Integrated Crop Management Blog.
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  - e. 2021 Iowa moth trapping network update: Week 5. May 6, 2021.
  - f. 2021 Iowa moth trapping network update: Week 4. April 29, 2021.
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  - h. 2021 Iowa moth trapping network update: Week 2. April 14, 2021.
  - i. 2021 Iowa moth trapping network update: Week 1. April 8, 2021.
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60. **Dean, Ashley**, and Erin Hodgson. Begin scouting for black cutworm in corn. In Integrated Crop Management News, May 11, 2021.
61. Hodgson, Erin, Meaghan Anderson, and **Ashley Dean**. Sweeping in alfalfa is always a good time. In Integrated Crop Management Blog, May 11, 2021.
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64. **Dean, Ashley**, and Erin Hodgson. Alfalfa weevils active throughout southern Iowa. In Integrated Crop Management News, April 12, 2021.
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66. Anderson, Meaghan, **Ashley Dean**, and Erin Hodgson. Insect overwintering: a bit like Goldilocks? In Integrated Crop Management Blog, February 16, 2021.
67. **Dean, Ashley**, and Erin Hodgson. Join the Iowa moth trapping network in 2021. In Integrated Crop Management Blog, February 15, 2021.
68. **Dean, Ashley**, and Erin Hodgson. Summary of 2020 insecticide evaluations for soybean pests. In Integrated Crop Management News, January 10, 2021.
69. **Dean, Ashley**, and Erin Hodgson. Soybean gall midge brown bag series. In Integrated Crop Management Blog, January 7, 2021.

70. **Dean, Ashley**, and Erin Hodgson. Corn rootworm monitoring network summary. In Integrated Crop Management News, September 10, 2020.
71. **Dean, Ashley**, and Erin Hodgson. What insects are in my (corn) ears? In Integrated Crop Management Blog, August 14, 2020.
72. Hodgson, Erin, and **Ashley Dean**. Don't wait for your corn to go down. In Integrated Crop Management Blog, July 18, 2020.
73. **Dean, Ashley**, and Erin Hodgson. Potato leafhoppers abundant in soybean and alfalfa. In Integrated Crop Management News, July 10, 2020.
74. **Dean, Ashley**, and Erin Hodgson. Soybean gall midge larvae active in Iowa. In Integrated Crop Management News, July 2, 2020.
75. **Dean, Ashley**, and Erin Hodgson. Planted non-Bt corn? Plan to scout for European corn borer. In Integrated Crop Management News, June 12, 2020.
76. Hodgson, Erin, and **Ashley Dean**. Corn rootworm egg hatch getting a late start in Iowa. In Integrated Crop Management News, June 9, 2020.
77. **Dean, Ashley**. Iowa moth trapping network updates. In Integrated Crop Management Blog.
  - a. Final moth trapping network update for 2020. June 3, 2020.
  - b. Iowa moth trapping network update: Week 8. May 27, 2020.
  - c. Iowa moth trapping network update: Week 7. May 20, 2020.
  - d. Iowa moth trapping network update: Week 6. May 13, 2020.
  - e. Iowa moth trapping network update: Week 5. May 6, 2020.
  - f. Iowa moth trapping network update: Week 4. April 30, 2020.
  - g. Iowa moth trapping network update: Week 3. April 24, 2020.
  - h. Iowa moth trapping network update: Weeks 1 and 2. April 24, 2020.
78. Hodgson, Erin, and **Ashley Dean**. Start scouting for stalk borers in southern Iowa. In Integrated Crop Management News, June 2, 2020.
79. Hodgson, Erin, and **Ashley Dean**. Don't snub those grubs. In Integrated Crop Management Blog, May 22, 2020.
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81. **Dean, Ashley**, and Erin Hodgson. 2020 scouting recommendations for black cutworm. In Integrated Crop Management News, May 11, 2020.
82. Hodgson, Erin, and **Ashley Dean**. Alfalfa weevils active throughout Iowa. In Integrated Crop Management News, May 6, 2020.
83. Hodgson, Erin, and **Ashley Dean**. Mild winter favors bean leaf beetle survival. In Integrated Crop Management News, April 24, 2020.
84. **Dean, Ashley**, and Erin Hodgson. Survival effects of fluctuating temperatures on insects. In Integrated Crop Management News, April 22, 2020.
85. **Dean, Ashley**, and Erin Hodgson. Management considerations for slugs: do insecticides work? In Integrated Crop Management News, March 19, 2020.
86. **Dean, Ashley**, and Erin Hodgson. Management considerations for millipedes and isopods: do insecticides work? In Integrated Crop Management News, March 18, 2020.
87. **Dean, Ashley**, and Erin Hodgson. We need you! Iowa moth trapping network seeking cooperators for 2020. In Integrated Crop Management Blog, February 21, 2020.

88. **Dean, Ashley**, and Erin Hodgson. Corteva™ to end chlorpyrifos production: what does this mean for Iowa farmers? In Integrated Crop Management News, February 21, 2020.
89. Hodgson, Erin, and **Ashley Dean**. Summary of 2019 insecticide evaluations for soybean pests. In Integrated Crop Management News, January 13, 2020.
90. Hodgson, Erin, and **Ashley Dean**. Corn earworm found in corn. In Integrated Crop Management Blog, August 2, 2019.
91. Hodgson, Erin, and **Ashley Dean**. Assessing corn rootworm activity using sticky traps. In Integrated Crop Management Blog, July 23, 2019.
92. Hodgson, Erin, and **Ashley Dean**. Potato leafhopper management in alfalfa. In Integrated Crop Management Blog, July 23, 2019.
93. Hodgson, Erin, and **Ashley Dean**. Caterpillar bonanza continues. In Integrated Crop Management Blog, July 12, 2019.
94. **Dean, Ashley**, Adam Sisson, and Erin Hodgson. Final 2019 Moth Trapping Update. In Integrated Crop Management Blog, June 6, 2019.
95. **Dean, Ashley**, Adam Sisson, and Erin Hodgson. Moth trapping update #2. In Integrated Crop Management Blog, May 13, 2019.
96. **Dean, Ashley**, Erin Hodgson, and Adam Sisson. Scouting for black cutworm 2019. In Integrated Crop Management News, May 12, 2019.
97. **Dean, Ashley**, Adam Sisson, and Erin Hodgson. Moth trapping begins in Iowa. In Integrated Crop Management Blog, April 19, 2019.
98. Hodgson, Erin, **Ashley Dean**, and Adam Sisson. Black cutworm and armyworm trapping network call for cooperators 2019. In Integrated Crop Management Blog, February 22, 2019.
99. **Dean, Ashley**, Adam Sisson, and Erin Hodgson. Black cutworm monitoring 2018. In Integrated Crop Management News, May 29, 2018.

## Reports and Other Publications

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### Extension:

1. Hodgson, Erin, **Ashley Dean**, Marlin Rice, and Adam Sisson. 2023. Field Crop Insects. Iowa State University Extension and Outreach, IPM 14.
2. **Dean, Ashley**, Erin Hodgson, and Tracey Baute. 2023. 2022 regional corn rootworm monitoring network summary. Online: <https://go.iastate.edu/UYCSIL>.
3. **Dean, Ashley**, and Erin Hodgson. 2022. Twospotted spider mites. Integrated Crop Management Encyclopedia.
4. **Dean, Ashley**, and Erin Hodgson. 2022. Soybean gall midge. Integrated Crop Management Encyclopedia.
5. **Dean, Ashley**, and Erin Hodgson. 2022. Stalk borer. Integrated Crop Management Encyclopedia.
6. **Dean, Ashley**, and Erin Hodgson. 2022. Black cutworm. Integrated Crop Management Encyclopedia.
7. **Dean, Ashley**, and Erin Hodgson. 2022. Growing degree days for insect pests. Integrated Crop Management Encyclopedia.
8. **Dean, Ashley**, and Erin Hodgson. 2022. Alfalfa weevil. Integrated Crop Management Encyclopedia.
9. **Dean, Ashley**, and Erin Hodgson. 2022. Seedcorn maggot. Integrated Crop Management Encyclopedia.
10. **Dean, Ashley**, and Erin Hodgson. 2022. 2021 regional corn rootworm monitoring network summary. Online: <https://go.iastate.edu/4YF9U6>.

11. Hodgson, E. W., **A. N. Dean**, and A. J. Sisson. 2021. Guide to moths in Iowa field crops. Iowa State University Extension and Outreach, Publication 3174.
12. Hodgson, E. W., and **Ashley Dean**. 2021. Datasheet for *Popillia japonica* Newman (Coleoptera: Scarabaeidae). Crop Protection Compendium, CAB International, Wallingford, United Kingdom.
13. Hodgson, Erin, Aaron Gassmann, and **Ashley Dean**. 2020. Current challenges in managing corn rootworm. Iowa State University Extension and Outreach, Publication 3169.
14. Hodgson, E. W., **A. Dean**, V. Schmitt, and N. Seiter. 2020. Insect and mite management, pp. 109-116. *In* Hodgson, Licht, and Sisson (eds.), Field Crop Production Handbook, Iowa State University Extension and Outreach, Publication 3162.
15. **Dean, Ashley**, and Erin Hodgson. 2020. Cold hardiness of insects and the impact of fluctuating temperatures. Integrated Crop Management Encyclopedia.
16. Corona, Caleb, **Ashley Dean**, and Erin Hodgson. 2020. Getting to know popular insecticides used in Iowa field crops. Integrated Crop Management Encyclopedia.
17. Hodgson, Erin and **Ashley Dean**. 2018. Soybean gall midge: a new field crop pest. Iowa State University Extension and Outreach, Publication 3157.

#### Research:

1. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Terry Tuttle. 2021. Iowa State University Northwest Research Farm 2020 soybean aphid efficacy evaluation. Iowa State University Research and Demonstration Farms Progress Reports, 2020.
2. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Ken Pecinovsky. 2021. Japanese beetle insecticide efficacy evaluation. Iowa State University Research and Demonstration Farms Progress Reports, 2020.
3. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Mitchell Helton. 2020. 2020 Report of Insecticide Evaluation, 39 pp. Department of Entomology, Iowa State University.
4. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Ken Pecinovsky. 2020. Japanese beetle insecticide efficacy evaluation in northeast Iowa. Iowa State University Research and Demonstration Farms Progress Reports, 2019(1).
5. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Kent Berns. 2019. Residual testing of Sefina insecticide on soybean aphid. Iowa State University Research and Demonstration Farms Progress Reports, 2018.
6. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Mitchell Helton. 2019. 2019 Report of Insecticide Evaluation, 29 pp. Department of Entomology, Iowa State University.
7. Hodgson, Erin, Greg VanNostrand, and **Ashley Dean**. 2018. 2018 Report of Insecticide Evaluation, 22 pp. Department of Entomology, Iowa State University.
8. **Dean, Ashley**, Erin Hodgson, and Matthew O'Neal. 2018. Evaluation of soybean aphid management tactics. Iowa State University Research and Demonstration Farms Progress Reports, 2018.

#### Conference Proceedings

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##### Extension:

1. **Dean, Ashley**, and Erin Hodgson. Insect trapping networks in Iowa: moths, corn rootworms, and implications for integrated pest management (IPM). Integrated Crop Management Conference, Ames, IA. December 1-2, 2021.

**Research:**

1. **Dean, Ashley N.**, Jarad Niemi, John Tyndall, Erin W. Hodgson, and Matthew E. O’Neal. Optimizing profit for farmers managing soybean aphid. Entomology 2019, St. Louis, MO. November 18, 2019.
2. Hodgson, Erin W., Christa Eilers-Kirk, Gregory VanNostrand, and **Ashley Dean**. Residual testing study of Sefina™ on soybean aphid. Entomology 2018, Vancouver, BC. November 13, 2018.
3. **Dean, Ashley**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal. Using soybean genetics to evaluate the value of soybean aphid management tactics. ASA, CSSA, and CSA International Annual Meeting, Baltimore, MD. November 6, 2018.

**Book Chapters**

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1. Hodgson, Erin W., Ashley N. Dean, Anders Huseeth, and William D. Hutchison. Advances and challenges in monitoring insect pests of major field crops in the United States, *In* Fountain, M. and Pope, T. (ed.), Advances in monitoring of native and invasive insect pests of crops, Burleigh Dodds Science Publishing, 2023, Cambridge, UK (ISBN-13: 978-1801461078).

**Service Activities**

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**Iowa State University – Extension and Outreach**

- Farm Progress Show plant health station planning committee and volunteer, 2022
- Fall and winter Crops Team in-service planning committee, 2021
- Women in Agriculture lunch at the Integrated Crop Management Conference, 2021
- Moderator and tech support for CropsTV sessions, Season 1 (2020/2021)
- Entomology instructor, Master Gardener Class-on-Campus, 2019
- Volunteer, Integrated Crop Management Conference, 2018

**Iowa State University – Youth Outreach**

- 4-H Ag Innovators Experience (Topic: Aerial Ag Challenge; Entomology session), March 23, 2023
- Judge, Regional Youth Crop Scouting Competition, 2021 (virtual)
- Judge, Iowa Youth Crop Scouting Competition, 2018–2023

**Iowa State University – Student Organizations**

- Volunteer, EGSO Fundraising events, 2019
- Volunteer, Pollinator Fest, 2017–2019
- Volunteer, Insect Film Festival, 2017–2018
- Volunteer, Harvest Fest, 2017–2018
- Volunteer, Food at First, 2017
- Secretary, Entomology Graduate Student Organization, 2018–2019
- Secretary, Sustainable Agriculture Student Association, 2017–2018



**Entomological Society of America**

- Committee member, ESA-North Central Branch Professional and Honorary Awards, 2022-2025
- Judge, Undergraduate Student Posters, April 2023
- Judge, Student 10-minute papers – M.S. Session 1, March 2022
- Judge, Student 10-minute papers – Field Crops 2, November 2021

**Other**

- Reviewer – Journal of Integrated Pest Management (1 article) – 2023
- Reviewer – Integrated Crop Management and Pesticide Application Record Book – 2021; 2022
- Reviewer – Crop, Forage, and Turfgrass Management (1 article) – 2022

**Interviews**

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**Radio:**

1. KWAY | Topic: Corn rootworm monitoring | August 10, 2023
2. KWAY | Topic: Corn rootworm monitoring | August 5, 2022
3. KNIA/KRLS | Topic: Corn rootworm field days | June 9, 2022
4. KXEL | Topic: Corn rootworm monitoring network | May 23, 2022
5. KICD | Topic: European corn borer | June 26, 2020

**Press:**

1. Maquoketa Newspaper | Topic: True armyworm | June 16, 2023
2. Northwest Iowa Review | Topic: Insects in field crops | June 8, 2023
3. Thrive Magazine | Topic: Soybean gall midge | March 24, 2023
4. Farm Journal | Topic: Japanese beetle | August 4, 2022
5. The Washington Post | Topic: Fall armyworm | September 17, 2021
6. Brownfield Ag Network | Topic: Alfalfa weevil | April 15, 2021

**Podcast:**

1. Soybean Pest Podcast | Season 12: Episode 8 | Don't know what you got till it's gone? Chlorpyrifos banned. August 20, 2021.
2. I See Dead Plants Podcast | Season 1: Episode 2 | Discovering the right decision: soybean aphid IPM – part 2. July 28, 2021.
3. I See Dead Plants Podcast | Season 1: Episode 1 | Discovering the right decision: soybean aphid IPM – part 1. July 28, 2021.
4. Soybean Pest Podcast | Season 11: Episode 3 | Don't snub those grubs. May 22, 2020.

## Other Activities

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### Conferences:

- Attendee, ESA-North Central Branch conference, 2018–2019; 2022-2023
- Attendee, ASA and CSSA annual meeting, 2018
- Attendee, ESA Annual meeting conference, 2017, 2019, 2021
- Attendee, ASA-CSSA-SSSA annual meeting and SASES tours, 2016
- Attendee, ASTA conference, 2015

### Field Days:

- Attendee, Iowa Learning Farms Virtual Field Days, 2020
- Attendee, Iowa State University Virtual Field Days, 2020
- Attendee, Armstrong Research Farm Field Day, 2019
- Attendee, Iowa State University Crop Scout School, 2018

### Professional Development:

- Camp Sketchapod | Workshop for scientific illustration in Manhattan, Kansas; June 23-25, 2023
- ANR Fall In-Service | ISU Extension and Outreach, 2020 (online); 2021–2022
- ANR Crops Team Fall In-Service | ISU Extension and Outreach, 2021-2022
- Tri-State Corn Rootworm Management Meeting | Iowa, Illinois, Wisconsin | (webinar)
- ANR Crops Team Spring In-Service | ISU Extension and Outreach, 2021-2023
- Soybean Gall Midge Brown Bag series | Midwest universities | (webinar) 2021–2023
- CropsTV | ISU Extension and Outreach (online)
- Field Agronomists Winter In-Service | ISU Extension and Outreach (online)
- How to Make Great Scientific Figures | Entomological Society of America (webinar)
- Seedcorn Maggot | Dr. Brian Nault, Cornell University (webinar)
- What a Recruiter Wished you Knew Before Approaching Them | ESA (webinar)

### Miscellaneous:

- Shared graduate school and extension experience with Women in Agronomy group, 2021
- Entomology Games team member, 2019
- Summer internship presentation at DuPont Pioneer, 2015

**YouTube videos:**

- The Undergrowth | Stuck and Starving: Insect Trapping to Help Farmers? <https://www.youtube.com/watch?v=olY1dLrEfb4&t=24s>
- Japanese beetle vs. False JB: <https://www.youtube.com/watch?v=W3EzCXAUGTw>
- Corn rootworm – beetles, larvae, damage, thresholds, management, sticky traps, scouting, and impact: [https://www.youtube.com/watch?v=isvMW1a\\_xew](https://www.youtube.com/watch?v=isvMW1a_xew)
- Field days across Iowa: <https://www.youtube.com/watch?v=9WPWWqePxxk>
- Stalk borer: from grass to corn: <https://www.youtube.com/watch?v=QTZMP1qJHIM>
- Corn rootworm: a closer look at this pest: <https://www.youtube.com/watch?v=SdbSxB8jDXo>
- Don't snub those grubs: [https://www.youtube.com/watch?v=Cxp\\_Dr20\\_aE](https://www.youtube.com/watch?v=Cxp_Dr20_aE)
- Adult corn rootworm trapping setup: <https://www.youtube.com/watch?v=lOKXxsdcEQ>