Sydney E. Everhart, Ph.D.

Head and Associate Professor of Plant Pathology
Department of Plant Science and Landscape Architecture, University of Connecticut
Office: 860-486-2925; Cell: 860-776-3251; E-mail: everhart@uconn.edu

EDUCATION

Ph.D. in Plant Pathology, Department of Plant Pathology, University of Georgia (UGA), 2012
M.S. in Biology (Ecology), Dept. of Biology and Earth Science, Univ. of Central Missouri (UCM), 2007
B.S. in Biology, Department of Biology, University of Iowa, 2005

PROFESSIONAL POSITIONS

2021 – **present**	Head and Associate Professor, Department of Plant Science and Landscape Architecture, University of Connecticut (UConn), Storrs, CT
2021 – **present**	Associate Adjunct Professor, Department of Plant Pathology, University of Nebraska (UNL), Lincoln, NE
2019 – 2021	Associate Professor, Department of Plant Pathology, UNL, Lincoln, NE
2014 – 2019	Assistant Professor, Department of Plant Pathology, University of Nebraska, Lincoln, NE
2012 – 2014	USDA-AFRI-NIFA Postdoctoral Fellow, Department of Botany & Plant Pathology, Oregon State University, and USDA Horticultural Crops Research Unit, Corvallis, OR

AWARDS / RECOGNITIONS

- Cover image of the *American Scientist* for the November-December 2024 issue (*photo by S.E.)*
- Lead21, Graduate of Class 19, 2024
- Cairns Distinguished Alumni Award, Department of Biology, UCM, 2022
- "*Top 5 Most Viewed Articles of 2017*" in *PeerJ*'s section on Agriculture Science, Genetics, and Mycology for Kamvar *et al*. 2017
- Cover image of *Phytopathology* from figure published in Grünwald *et al.* 2017
- *"Editor's Pick"* in *Plant Health Progress* for Dugan and Everhart 2017
- Schroth Faces of the Future Award in Epidemiology, American Phytopathological Society (APS), 2016
- K.E. Papa Outstanding Ph.D. Student, Department of Plant Pathology, UGA, 2012
- Second Place Oral Presentation, Broadus Browne Graduate Student Competition, UGA, 2012
- 11th I.E. Melhus Graduate Student Symposium Award, APS, 2011
- Grants-in-Aid-of-Research Award, Sigma Xi, 2011
- R.J. Tarleton Fellowship, awarded to one student nationally per year, APS, 2011
- Outstanding Graduate Teaching Assistant, Department of Plant Pathology, UGA, 2010
- C. Lee Campbell Student Travel Award, APS, 2009
- First Place Student Presentation, Georgia Association of Plant Pathologists, 2009
- First Place Graduate Thesis Award, one thesis selected per year in university, UCM, 2008
- Microbiology Research Award, Association of Southeastern Biologists, 2007
- Outstanding Graduate Student, Department of Biology, UCM, 2007
- Quarterman-Keever Poster Award, Southeastern Ecological Society of America, 2007
- Willard North Graduate Award for Research, UCM, 2006
- Dan Cooper Memorial Scholarship, Iowa State Horticulture Society, 2005
- Midwest Aquatic Plant Management Society, 2004
- "Iowa's Promise…Our Youth" Grant, awarded to create wildflower garden, 2000

LEADERSHIP and ADMINISTRATION

Head, Department of Plant Science and Landscape Architecture (2021–present)

PSLA is home to 21 faculty, 12 staff, and over 175 graduate and undergraduate students. The research and teaching infrastructure of the department includes wet labs, design studios, greenhouses, plant growth chambers, plant transformation facilities, and a 153-acre research and teaching farm. The department operates the Home & Garden Education Center, the Plant Diagnostics Clinic, Turf Diagnostics Lab, the Soil Nutrient Analysis Lab, and the Plant Transformation Facility, which facilitate and support extension and outreach to educators, homeowners, and commercial agriculture. PSLA has a strong history of being a top academic department in the College in external grant funding per faculty line over the last 10 years, typically receiving over $3 million per year. Our academic programs include undergraduate 2- and 4-year programs in plant science, a nationally accredited BS in landscape architecture, and graduate degrees at the MS and PhD levels. PSLA is nationally known for a longstanding breeding program on ornamental plants with dozens of patents adopted by the industry, impactful outreach on integrated pest management in the green industry, progressive teaching and research on hemp in controlled environments, applied research to solve problems in the green industry, and fundamental research in plant biology. PSLA Extension is known for the Turfgrass Field Day held every-other-year at the PS Research Farm, typically with 250+ attendees in the industry, and the annual UConn Native Plants conference. More information can be found at https://psla.uconn.edu

Personnel

- 21 faculty (15 tenure-track and 6 non-tenure track with FTE distribution of 7.4 teaching, 7.1 research, 5.8 extension, and 0.7 administrative)
- 12 support staff (5 are direct reports), including administrative, farm, greenhouse, and soil lab staff teams
- 6 postdocs and research assistant professors
- 35 graduate students in the Plant Science MS and PhD programs
- 140 undergraduate students across three programs; both 2- and 4-year programs
- Hires made as unit leader: 6 faculty and 8 staff, with 2 additional faculty searches underway
- Promotions as unit leader: 3 full prof, 2 assoc. w/ tenure, 1 tenure upon hire, and 5 staff promotions
- Awards to personnel directly supported / coordinated under my leadership:
    - Nora Doonan, Grad Student, Eastern States Expo Grad Student Scholarship, 2024
    - Yi Li, Professor, Elected Membership into CT Academy of Science & Engineering, 2024
    - Maussi Arrunategui, Grad Student, Eastern States Expo Grad Student Scholarship, 2023
    - Sohyun Park, Assistant Professor, Awarded CELA Excellence in Service-Learning Award, 2022
    - Nicole Gabelman, Staff Member, Awarded UCAHNRA Staff Award, 2022
    - Nominated but not awarded: 14 since 2021

Academic Programs

- AAS degree in Plant Science
- BS degree in Sustainable Plant and Soil Science (name changing to Plant Science in May 2025)
- BS degree in Landscape Architecture (nationally accredited by LAAB since 1998)
- MS and PhD degrees in Plant Science

Service Centers and Facilities

- Home and Garden Education Center
- Soil Nutrient Analysis Lab (12-14k samples / year)
- Plant Diagnostics Clinic
- Turf Diagnostics Lab
- Plant Transformation Facility
- Plant Science Research and Education Farm
- Floriculture Greenhouses

Strategic Investments

- Renovation of the Jones Annex (**$8M**), TBC December 2025 – this project will create a new UConn Plant and Soil Health Center and my role was to serve as the lead liaison for the college and department with the design team in developing the project.
- Renovation of Rackliffe Hicks (**$205K**), TBC January 2025 – obtained competitive funding to create a new 3D Virtual Reality Lab for landscape architecture faculty research and student teaching.
- UConn Cannabis Symposium (**$45K**), March 2023 – faculty in PSLA led the first cannabis symposium at UConn and involved UConn Nursing, Medicine, Pharmacy, Law, CLAS, CAHNR, and OVPR, totaling $45k contributions with 160 attendees from the region and nationwide; I served as the primary administrative coordinator for the steering committee, events planning, and communications.
- Fencing of Floriculture Parking Lot (**$20K**), August 2023 – reacquired parking lot at rear of Floriculture greenhouse and installed fence to mitigate theft of valuable plants in high traffic area and enhanced ability to support research through expansion of usable ground space for plant maintenance.
- Cannabinoid HPLC (**$65K**), May 2023 – obtained competitive funding to purchase high performance liquid chromatography instrument specific for cannabinoid profiling and can be expanded for other chemistries, such as fungicide residues.
- Landscape Architecture Printing Room, (**$34K**), May 2023 – acquired 120 sqft space, color printer, and high-accuracy plotter, which are used by landscape architecture firms and essential for LA students to be able to know how to use.
- Classroom Modernization at the UConn Plant Science Farm, (**$10k**), 2023 and 2024 – upgraded the audiovisual equipment and brought internet connection to the classroom to support Extension outreach, remote participation in conferences, and teaching.
- Administrative and Student Office Upgrades and Reorganization (**$38K**), 2022 and 2023 – reorganized administrative office to create new conference room with latest videoconference capabilities and upgraded furniture in student and postdoc office spaces to facilitate modern use of spaces.

Academic Program Reviews and Initiatives:

- Department 8-year review completed October 20-22, 2024, with valuable recommendations by the review team that included Mengmeng Gu, Justin Moss, and Linda Prokopy.
- LAAB academic program reaccreditation review conducted in 2023-2024, with review team visit in March of 2024; recommendation for reaccreditation until 2028.

Faculty Governance and Guidance:

- Governance documents created and adopted by faculty in PSLA in Fall 2023 (these were all new and add to the existing governance documents):
    1. Department Administrative Positions
    2. Merit Criteria Policy
    3. Performance Review Policy
    4. Promotion Tenure Review / Promotion Review Procedures
    5. Workload Policy
    6. Evaluation Standards for Faculty in Landscape Architecture
- Conduct annual review and merit evaluation for 21 faculty within PSLA, with merit allocated through a transparent process based on measurable outputs and the annual review based on explicit criteria related to accomplishments, impact, and engagement, which ensure all faculty, both pre- and post-tenure, continue to remain productive and with duties aligned to the responsibilities of their position.
- Provide mentors for junior faculty both within and outside of the department, in addition to faculty enrichment trainings offered in alternation with monthly faculty meetings.

RESEARCH ACTIVITIES

My current research is focused on the application of molecular tools for elucidating the biology and epidemiology of fungal plant pathogens causing disease within cultivated crops. Goals of my research are to improve our understanding of disease epidemics and population dynamics over space and time, with the long-term goal to better understand the underlying processes that shape pathogen populations and the pattern of disease. A major underlying process is the emergence and evolution of fungicide resistance.

Fungicide resistance is an economically important phenotype that, when present in pathogen populations, can be an underlying driver of disease outbreaks when fungicides applied are no longer effective. There are already 203 species of fungal plant pathogens reported to have fungicide resistance and it is an increasing concern. Although use of genetically modified crop plants decreases the need for chemical intervention, integration of resistance to necrotrophic pathogens is limited. This is due to the need for identification and integration of multiple minor genes, many of which may not yet be described and may be challenging to simultaneously integrate. Nationally, fungicides account for a 50% yield increase for 22 major crops in the U.S., which accounts for 97 billion pounds of food and fiber, valued at $12.8B[1]. Among the 45 active ingredients on the market, there exist only 10 modes of action[1,2], which is the fundamental unit to which resistance develops. New modes of action are sought and rarely discovered, so relying on this option to replace modes of action that are no longer effective is not realistic. Moreover, to develop a new product, it is estimated to take about 10 years and cost $200M. There is a pressing need to ensure that existing modes of action remain effective and that there are tools (rapid detection and resistant plant cultivars) available to reduce fungicide use; this is the mission of my research.

Research in my lab is focused on understanding mechanisms of fungicide resistance emergence, evaluation of new plant breeding lines for pathogen resistance, and concomitant investigations into the pathogen genetic and phenotypic variability. The long-term goal of my research is to reduce reliance on chemical intervention and increase health and environmental sustainability of plant production systems. The following research projects are actively underway:

1. ***Sclerotinia sclerotiorum,* causal agent of white mold disease of dry bean and soybean in the United States.** My research group has improved our understanding of the biology, epidemiology, evolution, and management of white mold disease. This disease results in an annual loss of ~$252M on sunflower, soybeans, dry edible beans, canola, and pulse crops. Because *S. sclerotiorum* is a necrotrophic pathogen and able to infect over 450 plants, breeding is limited and management relies heavily on well-timed fungicides. One of the most significant projects completed by my research group was a landscape-level population genetic analysis of *S. sclerotiorum* collected from dry bean fields across the United States (Kamvar *et al.* 2017 *PeerJ*). Our research showed greater connectivity across widely separated geographic locations than expected, which underscored the importance of multi-site screening nurseries for plant breeding and need to investigate the roles of seed-borne dissemination and climate-driven diversification. Although published December 7th, it was awarded one of the "Top 5 Most Viewed Articles of 2017" in *PeerJ*'s sections on Agriculture Science, Genetics, and Mycology. This is currently funded by the USDA National Sclerotinia Initiative and supports postdoc scholar, Bashir Tiamiyu.
2. ***Alternaria brassicicola,* causal agent of Alternaria blight and head rot of broccoli on the East Coast of the United States.** Alternaria blight in broccoli can severely impact yields and increase production costs in the absence of effective control options thus threatening the long-term viability and profitability of the industry. Management of Alternaria blight requires an integrated approach involving both cultural and chemical control tactics. Use of disease-resistant brassica cultivars, if available, and a preventive fungicide program are essential. Among chemical fungicides, brassica growers have traditionally been reliant on the quinone-outside inhibitor (QoI) (FRAC Group 11) fungicides such as

[1] Gianessi, L.P. & N. Reigner. 2005. The value of fungicides in U.S. Crop Production. *Crop Protection Research Institute, CropLife Foundation,* Washington D.C. *pp. 243.*
[2] FRAC. 2018. FRAC Code List 2018: Fungicides sorted by mode of action (including FRAC Code numbering). Fungicide Resistance Action Committee, *CropLife Foundation, Washington D.C. pp. 14.*

azoxystrobin. However, over the last 3 years a noticeable reduction in disease suppression has been observed in QoI fungicides across brassica growing regions in eastern U.S. and recent severe outbreaks on broccoli were observed in NY, VA and GA. As part of a coordinated, multi-state effort, research in my lab is focused on characterization of the pathogen populations using comparative genomics, population biology and fungicide resistance profiles to develop diagnostic tools for identifying *Alternaria* sp. causing disease. This project is currently funded by a grant from the USDA Specialty Crops Research Initiative and supports postdoc Roy Davis and graduate student Daniel Cerritos Garcia.

3. ***Cercospora sojina*, causal agent of frogeye leaf blight of soybean in Nebraska.** This project is in collaboration with Extension specialists to investigate the loss of fungicide efficacy reported in 2019 for soybean production in the state. Under favorable conditions, frogeye leaf spot can cause up to 35% yield loss. This disease is severe when soybean is grown continuously in the same field, particularly in fields where tillage is reduced because it is a residue- and seed-borne pathogen. In 2019, resistance to QoI fungicides was confirmed in 10 counties in Nebraska. Fungicide resistance is a serious concern because it threatens the ability to use QoI fungicides, which are some of the most effective and widely used fungicides for managing this disease. The proposed study is aimed at developing a DNA-based method to provide rapid diagnostics to identify fungicide-resistance and development of educational materials and outreach programs on resistance management practices. This project was supported by a grant from the Nebraska Soybean Board and PhD student Asha Mane graduated from UNL in December 2023.
4. ***Gemmamyces piceae*, causal agent of spruce bud blight in Alaska.** This fungal pathogen causes bud blight of several spruce species (*Picea spp.*) and serious losses have been attributed to this pathogen in the Czech Republic and more recently in Alaska. It is unknown whether this pathogen emerged in Alaska due to climate change or if it was introduced from Europe, where it is more well-known. Our project has focused on developing a comparative genomics and population genetics approach to address this question. This project is supported by a contract from the USDA Forest Service that was recently completed and supported PhD student Sergio Gabriel Peralta who graduated from UConn in August 2024.

See a complete list of grant funding, publications, and presentations that begins on Page 11.

TEACHING ACTIVITIES

Formal Instruction

My teaching experience includes leading and re-designing a team-taught course in *Ecology and Management of Plant Pathogens* (EMPP) and developing / teaching a professional development course called *Success in the Sciences*. These courses were designed backward design and incorporate active learning techniques. My teaching was recognized by graduate students in the UNL Department of Plant Pathology, who indicated in as survey that I was one of two faculty most deserving of recognition for teaching.

Classroom and Laboratory Instruction:

- Seminar, UConn, Spring 2024, and upcoming 2025
- Success in the Sciences, UNL, Summer 2018, Fall 2018, 2019, 2020; UConn Fall 2023
- Ecology and Management of Plant Pathogens, UNL, Spring 2016, 2017, 2018, 2019, 2020, 2021
- Plant Diseases Across Nebraska (field tour), UNL, Summer 2016, 2017
- Population Genetics and Advanced Epidemiology in R, UNL, Summer 2016
- Disease Dynamics and Evolution, UNL, Spring 2016
- Mycology Lab TA and guest lecturer, UGA, Fall 2009 and Fall 2010
- Plant Pathology Lab TA, UGA, Fall 2008
- Botany Lab TA, UCM, Fall 2006
- Anatomy and Physiology Lab TA, UCM, Fall 2006
- Tutor, Math Learning Center, UCM, Spring 2005
- Instructor of Record, Introductory Algebra, two sections, UCM, Fall 2005

Computing Workshops

Workshop created for scientists called *Introduction to R for Plant Pathologists* that uses real world plant pathology data and terminology as the scaffold for new R programming vocabulary. This workshop has been in high demand and has been taught to nearly 1,000 scientists, including a nationwide webinar hosted by the American Phytopathological Society that had ~300 people registered each day of the program.

Everhart, S.E., N.G. Gambhir, and Z.N. Kamvar. 2018. Intro to R for Plant Pathologists. *Example workshop website:* everhartlab.github.io/IntroR_Workshop

- 283 online participants for Part II, APS Webinar, Online, February 26, 2020
- 316 online participants for Part I, APS Webinar, Online, February 19, 2020
- 65 attendees, American Phytopathological Society Meeting, Cleveland, OH, August, 2019
- 26 attendees, Penn State University, State College, PA, October 16, 2018
- 64 attendees, International Congress of Plant Pathology, Boston, MA, August 28, 2018
- 45 attendees, University of Nebraska, Lincoln, NE, June 27, 2018
- 20 attendees, Ohio State University, Wooster, OH, October 16, 2017
- 22 attendees, APS North Central Division Meeting in Champaign, IL, June 14, 2017
- 56 attendees, University of Nebraska, Lincoln, NE, May 24, 2017

Grünwald, N.J., Z.N. Kamvar, and **S.E. Everhart.** 2014. Population Genetics in R. *Example workshop website:* grunwaldlab.github.io/Population_Genetics_in_R

- 40 attendees, Oregon State University, May 2014
- 60 attendees, APS National Meeting in Austin, TX, August 2014

Mentoring

Postdoctoral Scholars (8):

1. Bashir Tiamiyu, October 2023–**present**
2. Roy Davis Jr. II, July 2022–**present**
3. Srikanth Kodati, February 2022–2023, now Assistant Extension Educator at UConn, Tolland, CT
4. Rachel Koch Bach, May 2021–February 2022, now at USDA-ARS, Beltsville, MD
5. Margarita Marroquin-Guzman, June 2017–2019, now at Syngenta, St. Louis, MO
6. Zhian Kamvar, January 2017–April 2018, now at R OpenScience, Portland, OR
7. Thomas Miorini, March 2016–April 2018, now at ISK Biosciences Brazil
8. B. Sajeewa Amaradasa, August 2014 – July 2016, now Inst. for Adv. Learning and Res. in Danville, VA

Graduate Students (12):

1. Amelia Martin (M.S.), current student and CAHNR Diversity Fellow at UConn, 2023–**present**
2. AbdAlla Saleh Mohammed, (Ph.D.), 2023–**present**
3. Daniel Cerritos Garcia, (Ph.D.), 2021–**present**
4. Sergio Gabriel Peralta (Ph.D.), graduated August 2024, postdoc at UC-Davis
5. Afm Haque (M.S.), non-thesis plan-B master's program, graduated May 2024, pursuing PhD programs
6. Asha Mane (Ph.D.), graduated December 2023, returned to India to pursue social science research career
7. Edgar Nieto Lopez (Ph.D.), graduated December 2021, now postdoc at Iowa State University, Ames, IA
8. Nikita Gambhir (Ph.D.), graduated December 2020, now at FMC Agricultural Company, Baltimore, MD
9. Karen Ferreira Da Silva (Ph.D.), graduated May 2020, now at Corteva Agrisciences, Davis, CA
10. Srikanth Kodati (Ph.D.), graduated December 2019, now Extension Educator at UConn, Tolland, CT
11. Gulcin Ercan (M.S.), graduated August 2019, now research scientist in Turkey
12. Julianne Matczyszyn (Ph.D.), graduated August 2019, science comms, Boys Town Hospital, Omaha, NE

Graduate Student Rotations, Internships, and Volunteers (3):

1. Derrick Serunjogi, research support volunteer seeking PhD program, UConn 2024–**present**
2. Callie Braley (D.P.H.), Summer Internship 2018, USDA National Needs Fellow
3. Bridget Tripp (Ph.D. Complex Biosystems), Fall 2015

Undergraduate Students (18) (underlined = co-author on manuscript):

1. Faith Neault, hourly student, UConn 2024–**present**
2. Sebastian Barnal, hourly student, UConn, 2024–**present**
3. Colby Legault, hourly student, UConn 2003–**present**
4. Michael Fenton, hourly student, UConn 2022–2024
5. Amelia Martin, hourly student, UConn 2022–2023, now MS student that started in Fall 2023
6. Jeffrey Remy, work study student, UConn, 2021–2022
7. Nicole Molloy, hourly student, UConn, 2021–2022
8. Cristian Wolkup, UCARE and IANR Research Award, Honors Thesis, November 2018–Aug. 2020
9. Rachel Persson, UCARE recipient, May 2018–2019
10. Olivia Renelt, general laboratory work, October 2018–2019
11. Isabel Chavez, general laboratory work, November 2017–May 2018
12. Audrey Vega, general laboratory work, November 2017–May 2018
13. Alex Johnson, general laboratory and molecular research, July 2017–January 2018
14. Anthony Pannullo, IANR Research Award recipient, Honors Thesis, May 2015–August 2017
15. Josh Hanson, culturing of Sclerotinia sclerotiorum, Oct. 2014–December 2017
16. Morgan Thompsen, general laboratory work, May 2016–December 2016
17. Sarah Campbell, culturing and genotyping of Sclerotinia sclerotiorum, October 2014–May 2016
18. Flavio Nunes da Silva, isolation of Rhizoctonia, May–July, 2015 (10-week internship)

Research Technologists and Assistants (3):

1. Sandhya Pannala, hourly research assistant, UConn, 2024–**present**
2. Liying Qi, Research Technician for Huanzhong Wang, supervisory role only, August 2021–**present**
3. Keith Curran, Research Assistant for Haiying Tao, supervisory role only, August 2021–2023
4. Rebecca Higgins, Research Technician, half-time for USDA-NSI white mold screening, 2018–2021

Departmental Staff, Direct Reports (13)

1. Courtney Trzasko, Financial and Administrative Specialist, May 2024–**present**
2. Chloe Bilodeau, Educational Program Assistant, July 2023–**present**
3. Travis Clark, Farm Manager, May 2022–**present**
4. Christine Strand, Secretary, August 2021–**present**
5. Frederick (Nick) Pettit, Greenhouse Manager, August 2021–**present**
6. Tessa Hospod, temporary educational program assistant, December 2023–May 2024, now MS student
7. Lillian Borbas, temp educational program assistant, February 2023–October 2023, now in landscaping
8. Matilda Murray, Business Operations Manager, May 2023–October 2024, now independent consultant
9. Karen Nye, temp Financial Officer, December 2022–May 2023
10. Desmond Armentrout, temp Website Development, December 2021 to April 2022
11. Nicole Gabelman, Financial Officer and Academic Programs, August 2021 to November 2022
12. Stephen Olsen, Farm Manager, August 2021 to July 2022
13. Jimin Kamvar, Digital Communications Liaison, October 2017–December 2017

Committee Member for (16):

1. Roshani Budhaki, Ph.D., Plant Science, UConn, **present**
2. Troy Kamuda, Ph.D., Plant Science, UConn, **present**
3. John Campanelli, Ph.D., Plant Science, UConn, **present**
4. Michael Richter, Ph.D., Complex Biosystems, UNL, 2024
5. Ashley Stengel, Ph.D. Complex Biosystems, UNL, 2022
6. Abigail Borgmeier, M.S., Plant Pathology Specialization, UNL, 2021
7. Yen Ning Chai, Ph.D., Agronomy, UNL, 2021
8. Gabriella Martens, M.S., Plant Pathology Specialization, UNL, 2021
9. Meher Afroze Ony, M.S., Plant Pathology, University of Tennessee, 2020
10. Lisa Rothman, Ph.D., Plant Pathology, University of New South Africa, (external examiner), 2020
11. Raquel Rocha, Ph.D. Plant Pathology Specialization, UNL, 2018

12. Nicholas Arneson, M.S. Plant Pathology Specialization, UNL, 2018
13. Tugce Karacoban, M.S. Entomology, UNL, 2018
14. Bryant Gabriel, M.S. Entomology, UNL, 2018
15. Madeline Dowling, Ph.D. Plant and Environmental Sciences, Clemson University, 2018
16. Ashley Foster, M.S. Applied Science, UNL, 2016

OUTREACH

Obtaining federal funding for teaching and outreach has incredible impact and broadly supports training of the next generation of scientists. At UNL, we obtained a USDA National Needs Fellowship grant, which is focused on supporting students in the Doctor of Plant Health program to study resistance management, and funding from the USDA Women and Minorities in Science, Technology, Engineering and Mathematics (STEM) Fields Program. The latter project came from an idea I had after learning about the website called MentorNet, which is an online platform to provide online mentoring to youth considering a STEM career and then thinking about how we could apply the same approach for diverse youth in rural Nebraska to consider agSTEM careers. The idea behind MentorNet and our program is that a student's interest in a career field is influenced by the kind of people that they see in that field and a student who has a role model who looks like themselves is more likely to successfully complete their degree. To put this idea into action, I connected with faculty across departments and we co-wrote a proposal to create a mentoring program for underrepresented youth to consider agSTEM careers. This program is called "*Cultivate ACCESS"*, which is shorthand for "Cultivating Agricultural Career Communities to Empower Students in STEM". To accomplish this, our program connects high school youth in rural Nebraska communities (Scholars) with an established agSTEM professional (Mentors), using undergraduate UNL students to bridge the two groups (Ambassadors). My role was creating instructional materials on the importance of diversity to scientific discovery, managing our social media and print communications, design and development of the program website located at cultivate.unl.edu. Below are examples of talks and presentations that I have delivered or contributed to as a representative of the Cultivate ACCESS program.

Presentations on the Value of Diversity and agSTEM Careers:

1. **Everhart, S.E.** 2020. Why diversity matters. Presentation as part of the Diversity in Agriculture and Natural Resources Webinar hosted by the UNL College of Agricultural Sciences and Natural Resources. November 5, 2020.
2. **Everhart, S.E.** and R. Ibach. 2018. Cultivate ACCESS. Rapid-Fire Presentation. UNL College of Agriculture and Natural Resources Annual Meeting, August 7th, 2018.
3. Keshwani, J., R. Ibach, J. Bray-Obermeyer, **S. Everhart**, D. Keshwani, and L. Sandall. 2019. Cultivating ACCESS: Empowering students to pursue agSTEM through mentor relationships. North American Colleges and Teachers of Agriculture. Twin Falls, ID.

Professional skill development is currently a hot topic within graduate student education in the sciences. Job opportunities in academia are increasingly scarce, which means a greater number of our students will be pursuing careers in industry, government, and non-governmental organizations after graduation. Skills sought by prospective employers are increasingly focused on "soft skills" development. Recent studies have identified professional skills as an area in high demand by employers agSTEM disciplines[3,4]. Although professional development is one of the most frequent course topics requested by graduate students, training in this area is traditionally accomplished through mentoring provided by the student's major advisor. Yet heterogeneity in mentoring styles, students' differing needs, and lack of incentive are major hurdles that hinder this type of one-on-one training. *Success in the Sciences* was created to fill this gap. This course provides a roadmap for graduate students to the resources, training, and opportunities that are necessary to

[3] Beckerman, J., W. Schneider. 2016. Mining the gap: Assessing leadership needs to improve 21st Century plant pathology. *Plant Disease* 100:2349-2356.
[4] Richter, B.S., A. Poleatewich, M. Hayslett, K. Stofer. 2018. Finding the gaps: An assessment of concepts, skills, and employer expectations for plant pathology foundational courses. *Plant Disease* 102:1883–1898.

attain success in their graduate programs and a successful career in the sciences. Skills taught and topics covered include: resources for research, critical evaluation of the primary literature, project management, optimizing your time, mentoring and being mentored, publishing protocols and pitfalls, presenting your science, the art of communicating your work, tips for communicating with colleagues, networking to get a job, and the job interview. Topics were engaged using active learning techniques, including: peer instruction, minute papers, gallery walks, think-pair-share, jigsaw strategy, and role playing. Perhaps the most valuable outcome of this course was that content was student-driven. The topics we covered were those most relevant to graduate students and not just based on personal experiences. By covering a broad array of topics in professional skills important in the sciences, questions were answered, doubts were discussed, and life-long skills were imparted. Below is a list of presentations / workshops delivered about some of the techniques used in the course and in developing this course.

Presentations and Workshops on the Science of Teaching and Learning (SOTL):

1. **Everhart, S.E.**, A. Stengel, and K. Stanke. 2019. Equipping graduate students for success via active learning. Workshop hosted by the UNL Center for Transformative Teaching Spring Symposium, February 22, 2019.
2. Stanke, K.M., A. Stengel, S. Brown, and **S. Everhart.** 2019 Techniques for engaging your interdisciplinary STEM graduate students. North American Colleges and Teachers of Agriculture. Twin Falls, ID.
3. Stengel, A., K.M. Stanke, S. Brown, and **S. Everhart.** 2019. Backward design to promote tangible outcomes in graduate student professional development. North American Colleges and Teachers of Agriculture. Twin Falls, ID.
4. **Everhart, S.E. 2018.** Rubrics: Defining success. Presentation in the 2018 ARISE: Learning by Design workshop hosted by the UNL Center for Transformative Teaching. October 26, 2018.

SERVICE AND PROFESSIONAL ACTIVITIES

Service to the College

- Member, UConn Cuba Initiative, UConn, May 2024–**present**
- Steering Committee, Brewing Innovation, UConn, May 2023–**present**
- Administrative Chair for Cannabis Research Symposium, UConn, November 2022–March 2023
- Chair, Search Committee for UConn Associate Dean for Extension, April 2022–October 2023
- Grant panelist for UConn-sponsored USDA Hatch Projects, 2022 and 2024

Service to the Department

Graduate Education at UNL:

- Chair, Graduate Committee, 2020–2021
- Member, Curriculum Committee, 2018–2021
- Chair, *Ad hoc* Committee to write a graduate student handbook, 2019–2020
- Chair, *Ad hoc* Committee to write new graduate program proposal, 2018–2019

Department Communications at UNL:

- Developer/Administrator for Department of Plant Pathology website, January 2015–2021
- CASNR Web Framework, 2015–2021
- Member, Website Committee, 2018–present
- Chair, Website Committee, 2015–2018

Department Leadership at UNL:

- Member, Department Head Advisory Committee, 2020–2021
- Member, *Ad hoc* Committee to create department vision statement, 2017–2021
- Supervisor, Jimin Kamvar, Digital Communications Liaison, 2017

Host for Seminar Speakers and Symposia:
- Dr. Christian Dimkpa, Connecticut Ag. Experiment Station, hosted at UConn on Feb 15, 2024
- Dr. Raquel Rocha, Connecticut Ag. Experiment Station, hosted at UConn on Nov 11, 2023
- Dr. Cris Argueso, Colorado State University, hosted at UNL on November 10, 2019
- Dr. Amauri Bogo, Santa Catarina State Research Institute, hosted at UNL on August 21, 2019
- IANR Brazilian Student Symposium, seven student speakers, hosted at UNL on August 20, 2019
- Dr. Lucky Mehra, Kansas State University, hosted at UNL on March 11, 2019
- Dr. Jane Stewart, Colorado State University, hosted at UNL on October 8, 2018
- Dr. Jerry Weiland, USDA-ARS Horticultural Crops Research Unit, hosted at UNL on November 6, 2017
- Dr. Stacy Krueger-Hadfield, University of Alabama, hosted at UNL on November 15, 2017

Service to the University

- Member, Academic Planning Committee, elected position, 2020–2021
- Member, Dermott Coyne Foundational Awards Committee that supports lectureships in plant breeding and emergency funding for graduate students, invited position, 2019–2021
- Member, CASNR Curriculum Committee, Spring 2020
- Member, *Ad hoc* Committee to write the UNL Professional Code of Conduct, invited position, 2020

Service to the Profession

Multi-State and Individual Hatch Projects:
- Member, Multistate Research project S1083, 2019–**present**
  - Chair, Multistate Research project S1083, 2022–2023
  - Vice-Chair, Multistate Research project S1083, 2021–2022
- Co-Chair, Hatch Project: Stress responses, adaptations and management of pests and pathogens in agroecosystems, 2015–2020

Grant Panelist and Program Reviewer:
- Academic Program Review, Department of Plant and Soil Science, University of Vermont, 2024
- USDA Foundational Program for Pests and Beneficial Species, 2017
- USDA External Review of Research Plans, 2017
- Academic Program Review, Department of Entomology, UNL, 2016

Positions within Scientific Societies (only most recent/relevant shown):
- Vice-Chair, Academic Unit Leaders Forum, APS, elected position, 2024–**present**
- Curriculum Task Force, APS, invited position, 2023–**present**
- Academic Unit Leaders Forum, APS, invited position, 2021–**present**
- Councilor-at-Large, Executive Council of APS, elected position, 2021–2024
- Member, Annual Meeting Board of APS, invited position, 2016–2021
- Chair, Epidemiology Committee of APS, elected position, 2019–2020
- Vice-Chair, Epidemiology Committee of APS, elected position, 2018–2019
- Chair, Mycology Committee of APS, elected position, 2015–2016
- Vice-Chair, Mycology Committee of APS, elected position, 2014–2015

Editorships for Scientific Journals:
- Senior Editor for *Phytopathology*, 2021–**present**
- Section Editor for *Tropical Plant Pathology*, 2018–2019
- Associate Editor for *Ciencias Rural*, 2014–2015

Editorships for a Popular Magazine:
- Editor, *Iowa Horticulturist* magazine, 2008–2010
- Science Editor, *Iowa Horticulturist* magazine, 2005–2008

Ad hoc Peer Reviews for:

- *Annals of Botany*
- *Ciencias Rural*
- *Crop Protection*
- *European Journal of Plant Pathology*
- *Frontiers in Horticulture*
- *Journal of Phytopathology*
- *Molecular Plant Microbe Interactions*
- *PeerJ*
- *Phytopathology*
- *Plant Disease*
- *PLoS ONE*
- *Scientia Agricola*
- *Tropical Plant Pathology*

OUTSIDE ACTIVITIES

- Expert Witness, Everhart Horticulture Consulting, pesticide drift case of Eagle Creek Vineyards v. Eric Brinkman, May – November 2017

GRANT FUNDING

	PI (Lead)	Co-PI	
Active	$ 315,060	$ 3,677,128	
Complete	$ 745,874	$ 2,338,864	
Total:	**$ 1,060,934**	**$ 6,015,992**	
	Grand Total:		**$ 7,076,926**

Active Grants and Contracts:

1. **Everhart, S.E.,** and B. Tiamiyu. "Predictive Model to Link N Fertilization with Fungal Plant Pathogen Proliferation and Disease Severity", NSF-IUCRC SoilTech, Competitively selected as one of eight from 33 submitted proposals, **$50,000**, (Jan 1, 2024 to Dec 31, 2024). Funding supports postdoc Bashir Tiamiyu. Opportunity for renewal exists.
2. **Everhart, S.E., "**Outreach for Management of Connecticut Aquatic Invasive Species", MOU with CT-Department of Energy and Environmental Protection, **$100,000**, (July 2023 to Dec 2024). This funding supports outreach specialist, Dr. Lauren Kurtz, supervised by Victoria Wallace, UConn Extension.
3. Kuzovkina, G. Berkowitz, **S. Everhart**, M. Fragomeni, R. Raudales, H. Tao, H. Wang. "Valorizing research findings: Integrating research and extension to promote transformative changes in graduate education." USDA National Needs Fellowship, **$246,000**, ($37,000 from 2023 to 2027). This funding provides partial support as a fellowship to MS student, Amelia Martin.
4. Li, B., Y. Lei, H. Tao, **S.E. Everhart,** M. Chrysochoou, M. Stubler, M. Pena Mendez. "IUCRC Planning Grant Phase I, University of Connecticut: Center for Soil Technologies (SoilTech)." NSF Industry–University Cooperative Research Centers, **$699,999.** (2023-2028). This funding supports administrative and educational activities in support of the NSF-IUCRC SoilTech Center.
5. **Everhart, S.E.,** "Genetic variability associated with the traits of fungicide resistance and pathogenicity in *Sclerotinia sclerotiorum*", USDA-ARS National Sclerotinia Initiative, **$105,060**, (2022 to 2024). This funding currently partially supports postdoc Bashir Tiamiyu.
6. **Everhart, S.E.** and R. Koch Bach "Understanding routes of soilborne disease transmission in Christmas tree production systems in Connecticut", USDA Hatch, **$60,000**, (2022 to 2025). Provides half funding for grad student, Abdalla Saleh, also supported by Egyptian Ministry of Higher Education.
7. B. Dutta, **S.E. Everhart**, (and 3 others at 3 other institutions), "Control Alt Delete: Enhancing resiliency of broccoli production by mitigating Alternaria leaf blight and head rot in the eastern United States", USDA-SCRI, $2,731,129 (**$771,144** sub-award to SE, 2020 to 2025). Transferred to UConn. This funding supports one graduate student, Daniel Cerritos Garcia, and postdoc, Roy Davis.

Pending Grant Proposals and Letters of Intent

8. **Everhart, S.E.,** R.L. Davis, C. Smart, D. Higgins, S. Rideout, and B. Dutta, "CTRL, ALT, DELETE v2.0: Enhancing resiliency of broccoli production by mitigating Alternaria leaf blight and head rot in the eastern US", USDA Specialty Crops Research Initiative, **$2.2M** ($600k to SE). LOI submitted November 8, 2024. If invited, full proposal submission early 2025 will support one postdoc for 3 years.

Completed Grants and Contracts

9. Adams, G., and **S.E. Everhart,** "Population genetic analysis of the fungal pathogen *Gemmamyces piceae* to determine native (sexual), introduced (clonal), or invasive (mixed) reproduction on spruce in Alaska", USDA Forest Service Contract, **$42,845**, (2020 to 2023). Sub-award to UConn. Provided half funding for graduate student, Sergio Gabriel Peralta, who also held a Mexican fellowship.
10. **Everhart, S.E.**, "Improved white mold resistance in dry and snap beans through multi-site screening and pathogen characterization throughout major production areas", USDA-ARS National Sclerotinia Initiative, **$154,165,** (2020 to 2022, after transfer to UConn, this project is split to a new project above). Provided half funding for graduate student, Edgar Nieto Lopez, and technician, Becky Higgins.
11. **Everhart, S.E**., T. Jackson-Ziems, "Survey and rapid detection of fungicide resistant Frogeye Leaf Spot in Nebraska", Nebraska Soybean Board, **$198,331**, (2020 to 2023). Funding remained at UNL with T. Jackson-Ziems as PI and supported graduate student, Asha Mane, who graduated in December 2023.
12. Keshwani, J., **S.E., Everhart**, (and 3 others), "Cultivate ACCESS Diversity Fellows Program", CHS, **$80,000**, (2020 to 2021).
13. **Everhart, S** "Improved white mold resistance in dry and snap beans through multi-site screening and pathogen characterization throughout major production areas", USDA-ARS National Sclerotinia Initiative, **$72,000,** (2019 to 2020).
14. Proctor, C., **S.E. Everhart,** (and 9 others at 3 other institutions), "Optimizing cropping systems for resilience to stress: The role of maturity group selection and cover crops on yield, weeds, insects, and microbes", USDA-NIFA Foundational on Pests and Beneficial Species, $461,187, (**$24,212** sub-award to SE, 2017 to 2020).
15. Keshwani, J., **S.E. Everhart,** (and 3 others), "Cultivating ACCESS: Agriculture Career Communities to Empower Students in STEM", USDA-NIFA WAMS: Women and Minorities in STEM Fields Program, **$94,387,** (2017 to 2021).
16. Bond, J., **S.E. Everhart,** (and 13 others at 10 institutions), "Seedling diseases: Identification, management and education", N. Central Soybean Research Program, $878,940, (**$72,000** sub-award to SE, 2015 to 2018).
17. Kabbage, M., **S.E. Everhart,** (and 4 others at 3 institutions), "Biology and Control of Sclerotinia Stem Rot of Soybean", North Central Soybean Research Program, $240,000, (**$75,000** sub-award to SE, 2015 to 2018).
18. **Everhart, S.E.,** and A. Adesemoye, "Fungicide resistance in *Rhizoctonia solani* and implications for soybean fields in Nebraska", NE Soybean Board, $121,961, (**$77,193** to SE, 2015 to 2018).
19. Steadman, J., and **S.E. Everhart**, "Improved white mold resistance in dry and snap beans through multi-site screening and pathogen characterization throughout major production areas", USDA-ARS National Sclerotinia Initiative, **$117,096,** (2016 to 2018).
20. Adams, G., and **S.E. Everhart,** "Population genetic analysis of the fungal pathogen *Gemmamyces piceae* to determine native (sexual), introduced (clonal), or invasive (mixed) reproduction on spruce in Alaska", USDA Forest Service, **$10,000**, (2017 to 2018).
21. Hein, G., **Everhart, S.E.,** (and 6 others), "Bridging the Gap: Educating multidisciplinary professionals to steward pest management technologies for sustainable agriculture", USDA-NIFA National Needs Fellowship Program, **$238,500,** (2016 to 2021).
22. **Everhart, S.E.,** "Impact of sub-lethal fungicides on genome evolution: A potential new mechanism of resistance emergence in fungi", UNL Layman Award, **$10,000,** (2015 to 2016).

23. **Everhart, S.E.,** "*In vitro* fungicide testing of SDS pathogen, *Fusarium virguliforme* (current name *Neocosmopora virguliforme*)", Gowan Company, **$5,625,** (2016 to 2017).
24. **Everhart, S.E.,** "Genome-wide characterization of population variation and evolution in *Phytophthora ramorum*, causal agent of sudden oak death.", USDA-AFRI-NIFA Postdoctoral Fellowship, **$130,000,** (2012 to 2014).

PUBLICATIONS

Peer-Reviewed Manuscripts: *****Corresponding or co-corresponding author***

Members of Everhart Lab: *undergrad student*, *graduate student*, *or postdoc*

Submitted, In review, Accepted, and In Press:

1. Gambhir, N., Kodati, S., Adesemoye, A.O. and ****S.E. Everhart.** 201X. Fungicide sensitivity and non-target site resistance in *Rhizoctonia zeae* isolates collected from corn and soybean fields in Nebraska. *Plant Disease. Submitted Feb, 2024. Accepted, Aug. 25, 2024. In press.*
2. Gabriel-Peralta, S.M., G. Adams, L. Winton, K. Černý, and **S.E. Everhart****. 202X. Deciphering the population structure of *Gemmamyces picea*, an emerging fungal pathogen of spruce in Alaska. *Phytopathology*. *Submitted August 23, 2024. In review.*

Published:

3. Nieto-Lopez, E., D.G. Cerritos-Garcia, R.A. Koch Bach, A. Petkar, C.D. C. Smart Hoepting, D. Langston, S. Rideout, B. Dutta, and ****S.E. Everhart**. 2023. Species identification and fungicide sensitivity of fungi causing Alternaria leaf blight and head rot in cole crops in the Eastern U.S. *Plant Disease*. In press and online: doi.org/10.1094/PDIS-06-22-1318-SC
4. Nieto-Lopez, N., T.J.J. Miorini, C.A. Wulkop-Gil, M. Chilvers, L.J. Giesler, T.A. Jackson-Ziems, M. Kabbage, D.S. Mueller, D.L. Smith, J.M. Tovar-Pedraza, J.F. Willbur, and ****S.E. Everhart**. 2023. Fungicide sensitivity of *Sclerotinia sclerotiorum* from U.S. soybean and dry bean, compared to different regions and climates. *Plant Disease.* In press and online: doi.org/10.1094/PDIS-07-22-1707-RE
5. Da Silva, K.F., E. Burnham, J. Louis, D. Golick, and ****S.E. Everhart.** 2023. Nationwide assessment of leadership development for graduate students in the agricultural plant sciences. *PLoS ONE* 18(40): e0279216.
6. Kodati, S., N. Gambhir, G. Yuen, A.O. Adesemoye, and ****S.E. Everhart**. 2022. Diversity and aggressiveness of *Rhizoctonia* spp. From Nebraska on soybean and cross-pathogenicity to corn and wheat. *Plant Disease*. 106:2689-2700.
7. Gambhir, N., S.D. Harris, and ****S.E. Everhart**. 2022. Evolutionary significance of fungal hypermutators: Lessons learned from clinical strains and implications for fungal plant pathogens. *mSphere*, pp.e00087-22.
8. Matczyszyn, J.N., T. Harris, K. Powers, **S.E. Everhart**, and T.O. Powers. 2022. Ecological and morphological differentiation among COI haplotype groups in the plant parasitic nematode species. *Journal of Nematology*, 54(1), pp.1-24.
9. Da Silva, K.F., **Everhart, S.E.** and Louis, J., 2021. Impact of maize hormonal interactions on the performance of *Spodoptera frugiperda* in plants infected with *Clavibacter michiganensis* subsp. *nebraskensis*. *Arthropod-Plant Interactions*, *15*(5), pp.699-706.
10. **Everhart, S.E.**, N. Gambhir, and R. Stamm. 2021. Population genomics of filamentous plant pathogens—A brief overview of research questions, approaches, and pitfalls. *Phytopathology* pp.PHYTO-11.
11. Gambhir, N., Kodati, S., Huff, M., Silva, F., Ajayi-Oyetunde, O., Staton, M., Bradley, C., Adesemoye, A.O. and ****S.E. Everhart.** 2021. Prevention and detection of fungicide resistance development in *Rhizoctonia zeae* from soybean and corn in Nebraska. *Plant Health Progress*, pp.PHP-11.
12. Gambhir, N.G., Z.N. Kamvar, R. Higgins, B.S. Amaradasa, and **S.E. Everhart****. 2021. Spontaneous and fungicide-induced genomic variation in *Sclerotinia sclerotiorum*. *Phytopathology* pp.PHYTO-10.

13. Guven, H., **Everhart, S.E.,** De Miccolis Angelini, R.M. and Ozkilinc, H., 2021. Genetic diversity assessments of brown rot pathogen *Monilinia fructicola* based on the six simple sequence repeat loci. *Journal of Plant Diseases and Protection*, *128*(6), pp.1459-1465.
14. Kodati, S., Adesemoye, A.O., Yuen, G.Y., Volesky, J.D. and **Everhart, S.E.,** 2021. Origin of agricultural plant pathogens: Diversity and pathogenicity of Rhizoctonia fungi associated with native prairie grasses in the Sandhills of Nebraska. *PLoS ONE*, *16*(4), p.e0249335.
15. Ony, M., Klingeman, W.E., Zobel, J., Trigiano, R.N., Ginzel, M., Nowicki, M., Boggess, S.L., **Everhart, S.** and Hadziabdic, D., 2021. Genetic diversity in North American *Cercis canadensis* reveals an ancient population bottleneck that originated after the last glacial maximum. *Scientific Reports*, *11*(1), pp.1-16.
16. Dundore-Arias, E.A. Eloe-Fadrosh, L.M. Schriml, G.A. Beattie, F.P. Brennan, P.E. Busby, R.B. Calderon, S.C. Castle, J.B. Emerson, **S.E. Everhart**, K. Eversole, K. Frost, J. Herr, A.J. Huerta, A.S. Iyer-Pascuzzi, A. Kalil, J.E. Leach, J. Leonard, J.E. Maul, B. Prithiviraj, M. Potrykus, N.R. Redekar, J.A. Rojas, K.A.T. Silverstein, D. Tomso, S. Tringle, B. Vinatzer, and L. Kinkel. 2020. Community-driven metadata standards for agricultural microbiome research. *Phytobiomes* 4: 115–121.
17. Koehler-Cole, K., **S.E. Everhart**, Y. Gu, C.A. Proctor, M. Marroquin-Guzman, D.D. Redfearn, and R.W. Elmore. 2020. Is allelopathy from winter cover crops affecting row crops?. *Agricultural & Environmental Letters*, *5*(1), e20015.
18. Olgun, T., **S.E. Everhart**, T. Anderson, and J. Wu-Smart. 2020. Comparative analysis of viruses in four bee species collected from agricultural, urban, and natural landscapes. *PLoS ONE,* 15(6), p.e0234431.
19. Sciarresi, C., C. Proctor, E.R. Haramoto, L.E. Lindsey, G.I. Carmona, R. Elmore, **S.E. Everhart**, W. Looker, M. Marroquin-Guzman, J. McMechan, J. Wehrbein, R. Werle, and M. Salmeron. 2020. Evaluating short-season soybean management adaptations for cover crop rotations with a crop simulation model. *Field Crops Research* 250: 107734.
20. Ajayi, O.O., **S.E. Everhart**, P.J. Brown, A.U. Tenuta, A.E. Dorrance, and C. Bradley. 2019. Genetic structure of *Rhizoctonia solani* AG-2-2IIIB from soybean in Illinois, Ohio, and Ontario. *Phytopathology* 109:2132–2141.
21. Dale, A.L., N. Feau, **S.E. Everhart**, G. Bilodeau, B. Dhillon, J. Tabima, C. Brasier, N. Grünwald, and R.C. Hamelin. 2019. Mitotic recombination and a two-speed genome drive evolution in asexual lineages of the sudden oak death pathogen *Phytophthora ramorum*. *mBio* 10.1128/mBio.02452-18.
22. Kamvar, Z.N., and **S.E. Everhart****. 2019. Something in the agar does not compute: On the discriminatory power of mycelial compatibility in *Sclerotinia sclerotiorum*. *Tropical Plant Pathology*. 44:32–40.
23. Miorini, T.J.J., Z.N. Kamvar, R. Higgins, C.G. Raetano, J.R. Steadman, and **S.E. Everhart**.** 2019. Variation in pathogen aggression and cultivar performance against *Sclerotinia sclerotiorum* in soybean and dry bean from Brazil and the U.S. *Tropical Plant Pathology*. 44:73–81.
24. Pannullo, A.P., Z.N. Kamvar, T.J.J. Miorini, J.R. Steadman, and **S.E. Everhart****. 2019. Genetic variation and structure of *Sclerotinia sclerotiorum* populations from soybean in Brazil. *Tropical Plant Pathology* 44:53–64.
25. Bogo, A., C.C. Comparin, R.M.V. Sanhueza, P. Ritschel, R.T. Casa, F.N. Silva, and **S.E. Everhart**. 2018. Characterization of *Neofabraea actinidiae* and *N. brasiliensis* as causal agents of apple bull's-eye rot in southern Brazil. *Canadian Journal of Plant Pathology* DOI: 10.1080/07060661.2017.1421588
26. Nieto-López, E.H., **S.E. Everhart**, V. Ayala-Escobar, M. Camacho-Tapia, N.B. Lima, R. Nieto-Angel, and J.M. Tovar-Pedraza. 2018. First report of *Colletotrichum gloeosporioides* causing anthracnose of tejocote (*Crataegus gracilior*) fruits in Mexico. *Plant Disease*. 102:1855.
27. Dowling, M., G. Schnabel, H. Boatwright, and **S.E. Everhart****. 2017. Novel gene-sequence markers for isolate tracking within *Monilinia fructicola* lesions. *Pest Management Science* 73:1822–1829.
28. Grünwald, N.J., **S.E. Everhart**, B.J. Knaus, and Z.N. Kamvar. 2017. Best practices for population genetic analyses. *Phytopathology*. 107:1000–1010.
29. Kamvar, Z., Amaradasa, B.S., R. Jhala, S. McCoy, J.R. Steadman, and **S.E. Everhart**.** 2017. Population structure and phenotypic variation of *Sclerotinia sclerotiorum* from dry bean in the United States. PeerJ. 5:e4152 doi.org/10.7717/peerj.4152

30. Miorini, T.J.J., C.G. Raetano, and **S.E. Everhart****. 2017. Control of white mold of dry bean and residual activity of fungicides applied by chemigation. *Crop Protection.* 94:192–202.
31. Amaradasa, B.S., and **S.E. Everhart****. 2016. Effects of sublethal fungicides on mutation rates and genomic variation in fungal plant pathogen, *Sclerotinia sclerotiorum*. *PLoS ONE.* 11(12): e0168079. DOI 10.1371/journal.pone.0168079.
32. de Bem, B.P., A. Bogo, **S.E. Everhart**, R.T. Casa, M.J. Gonçalves, J.L. Marcon, L.R. Rufato, F.N. Silva, R. Allebrandt, and I.C. da Cunha. 2016. Effect of four training systems on the temporal dynamics of downy mildew in two grapevine cultivars in southern Brazil. *Tropical Plant Pathology*. DOI 10.1007/s40858-016-0110-8.
33. Dowling, M., P.K. Bryson, H. Boatwright, J.R. Wilson, Z. Fan, G. Schnabel, **S.E. Everhart**, and P. Brannen. 2016. Effect of fungicide application on *Monilinia fructicola* population diversity and transposon movement. *Phytopathology* 106:1504–1512.
34. Dugan, F.M., and **S.E. Everhart**. 2016. Cryptic species: A leitmotif of contemporary mycology has challenges and benefits for plant pathologists. *Plant Health Progress* 17:250–253. DOI10.1094/PHP-RV-16-0046
35. Tabima J.F., **S.E. Everhart**, M.M. Larsen, A.J. Weisberg, Z.N. Kamvar, M.A. Tancos, C.D. Smart, J.H. Chang, and N.J. Grünwald. 2016. Microbe-ID: An open source toolbox for microbial genotyping and species identification. *PeerJ* 4:e2279 DOI 10.7717/peerj.2279.
36. Chen, F., **S.E. Everhart^,** P.K. Bryson, C.L., X. Song, X.L., G. Schnabel. 2015. Fungicide-induced transposon movement in *Monilinia fructicola*. *Fungal Genetics and Biology* 85:38–44.
37. de Bem, B.P., Bogo, A., **S.E. Everhart**, R.T. Casa, M.J. Gonçalves, J.L.M. Filho, and I.C. da Cunha. 2015. Effect of Y-trellis and vertical shoot positioning training systems on downy mildew and botrytis bunch rot of grape in highlands of southern Brazil. *Scientia Horticulturae* 185:162–166.
38. **Everhart, S.E.,** and H. Scherm. 2015. Clonal disease foci of *Monilinia fructicola* during brown rot epidemics within peach tree canopies. *Phytopathology.* 105:542–549.
39. Schnabel, G., F. Chen, **S.E. Everhart**, W.C. Bridges and X.L. Liu. 2014. Studies on sensitivity reduction in solo and mixture treatments and fungicide-induced mutagenesis in *Monilinia fructicola*. *In*: H.W. Dehne, H.B. Deising, U. Gisi, B. Fraaije, U. Gisi, D. Hermann, A. Mehl, E.C. Oerke, P.E. Russel, G. Stammler, K.H. Kuck, H. Lyr (Eds). "Modern Fungicides and Antifungal Compounds", Vol. VII, pp 263–268. 2014 Deutsche Phytomedizinische Gesellschaft, Braunschweig, ISBN: 978-3-941261-13-6.
40. **Everhart, S.E.,** A. Askew, L. Seymour, and H. Scherm. 2013. Spatio-temporal patterns of pre-harvest brown rot epidemics within individual peach tree canopies. *European Journal of Plant Pathology* 135:499–509.
41. **Everhart, S.E.,** A. Askew, L. Seymour, T.C. Glenn, and H. Scherm. 2012. Spatial patterns of brown rot epidemics and development of microsatellite markers for analyzing fine-scale genetic structure of *Monilinia fructicola* populations within peach tree canopies. Online. *Plant Health Progress* doi:10.1094/PHP-2012-0723-04-RS.
42. **Everhart, S.E.,** A. Askew, L. Seymour, I.J. Holb, and H. Scherm. 2011. Characterization of three-dimensional spatial aggregation and association patterns of brown rot symptoms within intensively mapped sour cherry trees. *Annals of Botany* 108:1195–1202.
43. **Everhart, S.E.**** 2010. Upper canopy collection and identification of grapevines (*Vitis*) from the tree canopy of select forests in the southeastern United States. *Castanea* 75: 141–149.
44. Keller, H.W., and **S.E. Everhart** 2010. Importance of Myxomycetes in biological research and teaching. *Fungi* 3(1):13–27.
45. **Everhart, S.E**.,** J.S. Ely, and H.W. Keller. 2009. Evaluation of tree canopy epiphytes and bark characteristics associated with corticolous myxomycetes. *Botany* 87:509–517.
46. Keller, H.W., **S.E. Everhart,** M. Skrabal, and C.M. Kilgore. 2009. Tree canopy biodiversity in temperate forests: Exploring islands in the sky. *Southeastern Biology* 56:52–74.
47. **Everhart, S.E.,** and H.W. Keller. 2008. Influence of bark pH on the occurrence and distribution of tree canopy myxomycete species. *Mycologia* 100:191–204.
48. **Everhart, S.E.,** and H.W. Keller. 2008. Life history strategies of corticolous myxomycetes: The life cycle, fruiting bodies, plasmodial types, and taxonomic orders. *Fungal Diversity* 29:1–16.

49. Keller, H.W., and **S.E. Everhart** 2008. Myxomycete species concepts, monotypic genera, the fossil record, and additional examples for good taxonomic practice. *Revista Mexicana de Micologia* 27:9–19.
50. Keller, H.W., C.M. Kilgore, **S.E. Everhart,** G. Carmack, C. Crabtree, and A. Scarborough. 2008. Myxomycete plasmodia and fruiting bodies: Unusual occurrences and user friendly study techniques. *Fungi* 1:24–37.
51. Kilgore, C.M., H.W. Keller, **S.E. Everhart,** A. Scarborough, K. Snell, M. Skrabal, C. Pottorff, and J.S. Ely. 2008. Tree canopy research and student experiences using the double rope climbing method. *Journal of Botanical Research Institute of Texas* 2:1309–1336.

Manuscripts in preparation for submission:

52. Cerritos-Garcia D.G., R.L. Davis II, A.G. Martin, M.G. Fenton Jr., H. Betaw, C.D. Smart, C. Hoepting, and ****S.E. Everhart.** Alternaria populations from organic and conventional broccoli fields in the Eastern US. 2024. *To be submitted to Plant Disease*.
53. Davis II, R.L., D.G. Cerritos-Garcia, A.G. Martin, Fenton, M.F., K.D. Patel, B. Dutta, and ****S.E. Everhart**. 202X. Population genetics of *Alternaria brassicicola* from nearby fields in Connecticut and Georgia. *To be submitted to Phytopathology*.
54. Davis II, R.L., D.G. Cerritos-Garcia, A.G. Martin, M.G. Fenton Jr., Hoidal, N., K.D. Patel, H. Betaw, C. Hoepting, S. Rideout, D. Langston, C. Smart, B. Dutta, and ****S.E. Everhart**. 202X. Population genetics of geographically distinct broccoli fields in New York, Virginia, Georgia, and Minnesota using amplicon sequencing. *To be submitted to Phytopathology*.
55. Gabriel-Peralta, S.M., G.C. Adams, and ****S.E. Everhart**. 202X. Management of Emerging Fungal Diseases in Forests. *To be submitted to Forests.*
56. Gabriel-Peralta, S.M., G.C. Adams, and ****S.E. Everhart.** 202X. Whole genome sequencing and annotations of *Gemmamyces piceae*, *Dichomera gemmicola* and *Camarosporium strobilinum* causing bud blight disease of spruce (*Picea* spp.) in Alaska. *To be submitted to Phytofrontiers.*
57. Gabriel-Peralta, S.M., G.C. Adams, L. Winton, K. Cerny, and ****S.E. Everhart**. 202X. Deciphering the population structure of emerging fungus *Gemmamyces piceae* in Alaska using short sequence repeats. *To be submitted to Phytopathology*.
58. Gabriel-Peralta, S.M., G.C. Adams, L. Winton, K. Cerny, and ****S.E. Everhart**. 202X. Characterizing emerging *Gemmamyces piceae*, *Dichomera gemmicola* and *Camarosporium strobilinum* causing bud blight disease of spruce (*Picea* spp.) in Alaska using phylogenetics. *To be submitted to Frontiers in Forest Health.*

Other Products – Book Chapters, Software, Proceedings, & Magazine Articles:

1. Keller, H.W., **S.E. Everhart**, and C. Kilgore. 2024. The Myxomycetes: Nature's Quick-Change Artists. *American Scientist.* 112(6): 352. doi.org/10.1511/2024.112.6.352 (cover image photo by S. Everhart).
2. Gallup, C., **S.E. Everhart**, and N. Donofrio. 2023. Four committees receive 2023 Councilor's Challenge Award for Engagement. *Phytopathology News*. 57(02).
3. Gent, D., C. Gallup, and **S.E. Everhart**. 2022. Graduate Student, Virology, and Regulatory Plant Pathology Committees take first, second, and third place in the 2022 Councilor's Challenge. *Phytopathology News.* 56:5.
4. Choudhury, R.A., and **S.E. Everhart**. 2021. 19th Annual Melhus Symposium: Data driven plant health. *Plant Health Progress.* 22:433–435.
5. Jackson-Ziems, T.A., **S.E. Everhart**, and A. Mane. 2020. Diseases to watch out for in crops. *Norfolk daily News-Ag News*, July 9, 2020.
6. Mane A., **S.E. Everhart**, and T.A. Jackson-Ziems. 2020. Frogeye Leaf Spot, Disease Update. *Soybean Management Field Day.* August, 2020.
7. Higgins, R., and **S.E. Everhart.** 2020. New sources of white mold resistance derived from wide crosses in common bean and evaluated in the greenhouse and field using multi-site screening nurseries. *Bean Improvement Cooperative.* 63:129–130.
8. Dundore-Arias, J.P. and **S.E. Everhart**. 2019. Meet 1:1 with a distinguished expert at Plant Health 2019! *Phytopathology News.* 53:90.

9. R. Higgins, **S.E. Everhart**, and J.R. Steadman. 2019. New sources of white mold resistance derived from wide crosses in common bean and evaluated in the greenhouse and field using multi-site screening nurseries. *Bean Improvement Cooperative.* 62:27–28.
10. Nieto-Lopez, E.H., T.J.J. Miorini, and **S.E. Everhart**. 2019. Fungicide sensitivity of 207 *Sclerotinia sclerotiorum* isolates from dry bean and soybean. *Bean Improvement Cooperative.* 62:29–30.
11. **Everhart, S.E.**, and K. Ivors. 2018. E-Posters: Out with the old and in with the new. *Phytopathology News*. Page 3.
12. Gambhir, N., **S.E. Everhart**, S. Kodati, and A. Adesemoye. 2018. Fungicide resistance: Risk and management. *SoybeaNebraska*, Spring 2018, Page 22.
13. Kodati, S., A. Adesemoye, N. Gambhir, and **S.E. Everhart**. 2018. Rhizoctonia diseases in soybean. *SoybeaNebraska*, Spring 2018, Page 23.
14. R. Higgins, Z.N. Kamvar, **S.E. Everhart**, and J.R. Steadman. 2018. New sources of white mold resistance derived from wide crosses in common bean and evaluated in the greenhouse and field using multi-site screening nurseries comparing 2016 and 2017 data. *Bean Improvement Cooperative*.
15. Keller, H.W., **S.E. Everhart,** and C.M. Kilgore. 2017. The Myxomycetes: Biology, life cycle, genetics and reproduction. In: Stephenson, S. and C. Lado (editors) "Myxomycetes: Biology, Systematics, Biogeography and Ecology", Elsevier, Atlanta, GA.
16. Miorini, T.J., A. Pannullo, T. Hornby, R. Higgins, **S.E. Everhart,** and J.R. Steadman. 2017. Phenotypic and genotypic characterization of relevant *Sclerotinia sclerotiorum* isolates. *Bean Improvement Cooperative*.
17. Kamvar, Z., J. Tabima, **S.E. Everhart,** J. Brooks, S. Krueger-Hadfield, E. Sotka, and N. Grunwald, 2016. Package 'poppr'. https://cran.r-project.org/web/packages/poppr
18. **Everhart, S.E.,** B. Amaradasa, R. Jhala, R. Higgins, and J.R. Steadman. 2016. Population structure and fungicide sensitivity of 366 *Sclerotinia sclerotiorum* isolates from dry common bean. *Bean Improvement Cooperative.* 59:131–132.
19. **Everhart, S.E.** 2016. PLPT 496/892: Disease Dynamics & Evolution—A Peer Review of Teaching Project Benchmark Portfolio. http://digitalcommons.unl.edu/prtunl/20
20. Grunwald, N.J., Z.N. Kamvar, and **S.E. Everhart.** 2015. Population Genetics in R. Online book: http://grunwaldlab.github.io/Population_Genetics_in_R
21. **Everhart, S.E.,** T.F. Tabima, and N.J. Grünwald. 2014. *Phytophthora ramorum*. In: Dean, R.A., A. Lichens-Park, and C. Kole (eds) Genomics of Plant Associated Fungi and Oomycetes, Springer, New York, NY. Pp. 159–174.
22. **Everhart, S.E.** 2008. Edible, avoidable, and artistic fungi for summer and fall. *The Iowa Horticulturist* 24(2): 22–23.
23. **Everhart, S.E.** 2008. Edible and avoidable fungi for spring. *The Iowa Horticulturist* 24(1): 22–23.
24. **Everhart, S.E.** 2007. Smooth patch on oak trees. *The Iowa Horticulturist* 23(3): 17.
25. **Everhart, S.E.** 2006. Slime invaders on your lawn. *The Iowa Horticulturist* 22(2): 18–20.
26. Keller, H.W. and **S.E. Everhart.** 2006. Myxomycetes (true slime molds): Educational sources for students and teachers (Part I and II). *Inoculum* 57(3): 1–2; 57(4): 4–5.
27. **Everhart, S.E.** 2002. Daylily rust in Iowa. *The Iowa Horticulturist* 19(1): 18–20.
28. **Everhart, S.E.** 2000. Wildflower demonstration garden. *The Iowa Horticulturist* 17(1): 14–15.
29. **Everhart, S.E.** 1999. White pines in Iowa. *The Iowa Horticulturist* 15(2): 10.

Book Reviews:

1. **Everhart, S.E.** 2010. Taming the Truffle by I.R. Hall, G. Brown, and A. Zambonelli. *The Iowa Horticulturist* 25(3): 18.
2. **Everhart, S.E.** 2009. Tabletop Gardens by R. McCreary. *The Iowa Horticulturist* 25(2): 18.
3. **Everhart, S.E.** 2009. Bloom-Again Orchids by J. White. *The Iowa Horticulturist* 25(2): 18.
4. **Everhart, S.E.** 2008. The Complete Compost Gardening Guide by B. Pleasant and D.L. Martin. *The Iowa Horticulturist* 24(2): 18.

5. **Everhart, S.E.** 2008. The Backyard Beekeeper by Fluttom. *The Iowa Horticulturist* 23(3): 20.
6. **Everhart, S.E.** 2008. Pocket Guide to Hostas by Grenfell and Shadrack. *The Iowa Horticulturist* 23(4): 18.
7. **Everhart, S.E.** 2008. Perennials for Midwestern Gardens by Kahtz. *The Iowa Horticulturist* 24(3): 18.
8. **Everhart, S.E.** 2008. Landscape Design by VanDerZanden and Rodie. *The Iowa Horticulturist* 23(4): 18.
9. **Everhart, S.E.** 2008. Garden Your Way to Health and Fitness by B. Guinness and J. Knox. *The Iowa Horticulturist* 24(3): 18.
10. **Everhart, S.E.** 2008. Essential Plant Pathology by Schumann and D'Arcy. *Inoculum* 59(4): 74.
11. **Everhart, S.E.** 2008. Doing Time in the Garden by Jiler. *The Iowa Horticulturist* 23(3): 20.
12. **Everhart, S.E.** 2008. Complete Roses: Featuring 100 Easy-Growing Favorites by F. Roebuck. *The Iowa Horticulturist* 24(2): 18.
13. **Everhart, S.E.** 2007. Taste of the Midwest by Kaercher. *The Iowa Horticulturist* 23(1): 22.
14. **Everhart, S.E.** 2007. Tallgrass Prairie Wildflowers by Ladd. *The Iowa Horticulturist* 23(2): 22.
15. **Everhart, S.E.** 2007. Scats and Tracks of the Midwest by Halfpenny. *The Iowa Horticulturist* 23(1): 22.
16. **Everhart, S.E.** 2007. Lawns Natural and Organic by Williamson. *The Iowa Horticulturist* 23(2): 22.
17. **Everhart, S.E.** 2006. Vegetable Gardening Laboratories by Masiunas. *The Iowa Horticulturist* 22(4): 20.
18. **Everhart, S.E.** 2006. The Healthy Lawn Handbook by Winward. *The Iowa Horticulturist* 22(3): 20.
19. **Everhart, S.E.** 2006. Professional Interior Plantscaping by Collins. *The Iowa Horticulturist* 22(4): 20.
20. **Everhart, S.E.** 2006. Book of Water Gardens by Swindells & Mason. *The Iowa Horticulturist* 22(3): 20.
21. **Everhart, S.E.** 2005. The Art of Garden Photography by Adams. *The Iowa Horticulturist* 22(2): 8.
22. **Everhart, S.E.** 2005. Iowa Birds by Johnson, Bangma, and Kennedy. *The Iowa Horticulturist* 22(1): 8.
23. **Everhart, S.E.** 2005. Great Flowering Landscape Shrubs by Simeone. *The Iowa Horticulturist* 22(1): 8.
24. **Everhart, S.E.** 2005. Best Garden Plants for Iowa by Porto and Peters. *The Iowa Horticulturist* 22(2): 8.
25. **Everhart, S.E.** 2004. The Diversity of Life by Wilson. *The Iowa Horticulturist* 21(3): 9.
26. **Everhart, S.E.** 2004. Burpee Complete Gardener by Armitage, Heffernan, Kleiber and Shimizu. *The Iowa Horticulturist* 21(3): 9.

PRESENTATIONS

Selected List of Invited Seminars and Symposia:

2024: LSU Plant Science Symposium, Baton Rouge, LA (***Dec 6, Student invited speaker***)
Keynote speaker for Bob Carroll Symposium / NJDelMarVaPa, Newark, DE (*student invited*)
Department of Plant Pathology, University of Minnesota, St. Paul, MN
13th International Epidemiology Workshop, Foz do Iguazo, Brazil

2023: International Homeopathy and the Future of Global Health, Farmington, CT
Department of Plant Pathology, Connecticut Agricultural Experiment Station, New Haven, CT

2021: Department of Plant Pathology and Plant-Microbe Biology, Cornell University, Online

2021: Department of Plant Science and Landscape Architecture, University of Connecticut, Online

2020: Keynote Speaker, International Sclerotinia Workshop, Avignon, France (*cancelled due to pandemic*)

2019: Department of Agronomy and Horticulture, University of Nebraska, Lincoln, NE

2018: College of Agriculture and Natural Resources Annual Meeting, University of Nebraska, Lincoln, NE
Department of Plant Pathology, Kansas State University, Manhattan, KS
Department of Plant Pathology and Environmental Microbiology, Penn State University, State College, PA (*and two workshops*)

2017: 16th International Sclerotinia Workshop, Uberlandia, Brazil (*two invited talks*)
Department of Plant Pathology, Ohio State University, Wooster, OH (*and workshop*)
Department of Microbiology and Plant Pathology, Iowa State University, Ames, IA

2016: Schroth Faces of the Future Symposium, Epidemiology, APS Meeting, Tampa, FL

Department of Plant Pathology, UNL, Seminar Series, Lincoln, NE

2015: Department of Plant and Environmental Sciences, Clemson University, Clemson, SC
Department of Biology and Agriculture, University of Central Missouri, Warrensburg, MO

2014: Plant Science Retreat, University of Nebraska, Nebraska City, NE

Poster and Oral Research Presentations: ^ *presenting author and member of Everhart Lab*

1. Cerritos-Garcia^, D.G., Davis II, R.L., Martin, A., Fenton, M., Betaw, H., Smart, C., Hoepting, C., Langston, D., Rideout, S., Patel, K., Dutta, B., and **S.E. Everhart**. 2024. Fungicide sensitivity of *Alternaria alternata* and *A. japonica* to azoxystrobin reveals fungicide resistance in brassica producing states in the Eastern US. APS Plant Health 2024, Memphis, TN. *Poster presentation.*
2. Davis II^, R. L., Cerritos-Garcia, D. G., Martin, A. G., Fenton Jr., M. F., Legault, C. L., Bernal, S., Neault, F. N., and **S.E. Everhart**. 2024. Structure and diversity of *Alternaria brassicicola* between and within fields in Connecticut, Massachusetts and Georgia. Plant Science and Landscape Architecture, Departmental Seminar. October 2024.
3. Davis II^, R. L. and **S.E. Everhart.** 2024. General management practices for fungal plant diseases. Storrs, CT. UConn Extension Vegetable and Fruit Growers' Conference. Outreach and extension presentation. August 2024.
4. Davis II^, R.L., Cerritos-Garcia, D.G., Legault, C.L., and **S.E. Everhart.** 2024. The role of the minor *Alternaria* spp. in the Alternaria blight and head rot disease complex in organic brassica production in Connecticut. APS Plant Health 2024, Memphis, TN. *Poster presentation.*
5. Martin, A, R.L. Davis II, D. Cerritos-Garcia, and **S.E. Everhart**. 2024. Quantifying the effects of temperature and leaf wetness on disease development caused by three different species of Alternaria on broccoli. APS Plant Health 2024, Memphis, TN. *Poster presentation*
6. Mohamed^, A.S., B.B. Tiamiyu, S. Kodati, and **S.E. Everhart**. 2024. Predictive model to link N fertilization with fungal plant pathogen proliferation and disease severity. APS Plant Health 2024, Memphis, TN. *Poster presentation*
7. Tiamiyu^, B.B., E. Nieto-Lopez, R. A. Koch Bach, S. Kodati, N. Gambhir, and **S.E. Everhart**. 2024. Population genetic characterization of *Sclerotinia sclerotiorum* from soybean and dry bean using AmpSeq. APS Plant Health 2024, Memphis, TN. *Poster presentation.*
8. Tiamiyu^, B.B., S. Kodati, and **S.E. Everhart**. 2024. Stakeholders' perceptions of impacts and farmer adoption of outcomes from research funded by the USDA National Sclerotinia Initiative Program. APS Plant Health 2024, Memphis, TN. *Poster presentation.*
9. Cerritos-Garcia^, D.G., R.L. Davis II, A. Martin, M. Fenton, H. Betaw, C.D. Smart, C. Hoepting, D. Langston, S. Rideout, K. Patel, B. Dutta, and **S.E. Everhart**. 2024. Fungicide sensitivity of *Alternaria* spp. to azoxystrobin reveals presence of resistance to QoIs in some broccoli producing states in the East Coast. APS Northeastern Division Meeting, Ithaca, NY.
10. Cerritos-Garcia^, D.G., R.L. Davis II, A.G. Martin, M.G. Fenton, and **S.E. Everhart**. 2024. Why QoI fungicides are failing to control Alternaria leaf blight and head rot of broccoli in the Eastern US. UConn CAHNR Graduate Student Research Forum poster presentation on April 2024, Storrs, CT.
11. Davis II^, R.L., D.G. Cerritos-Garcia, A.G. Martin, M.G. Fenton Jr., Legault, C.L., and **S.E. Everhart**. 2024. Characterization of the pathogenicity and composition of *Alternaria* spp. in the Alternaria blight and head rot disease complex in broccoli. UConn One Health Conference. Storrs, CT.
12. Davis II^, R.L., D.G. Cerritos-Garcia, A.G. Martin, and **S.E. Everhart**. 2024. Koch's Postulates to confirm pathogenicity of *Alternaria alternata* and *Alternaria japonica* on broccoli. APS Northeastern Division Meeting, Ithaca, NY.
13. Davis II^, R.L., D.G. Cerritos-Garcia, A.G. Martin, M.G. Fenton Jr., Legault, C.L., and **S.E. Everhart**. 2024. Alternaria in Connecticut brassica production. UConn Extension Vegetable and Fruit Growers' Conference, Storrs, CT.
14. Davis II^, R.L., D.G. Cerritos-Garcia, A.G. Martin, M.G. Fenton Jr., K.D. Patel, H. Betaw, C. Hoepting, S. Rideout, D. Langston, C. Smart, B. Dutta, and **S.E. Everhart**. 2024. Collection and isolation of *Alternaria brassicicola* samples to understand population structure along the East Coast, United States. APS Northeastern Division, Southington, CT.

15. Davis II^, R.L., D.G. Cerritos-Garcia, and **S.E. Everhart**. 2024. Alternaria in Connecticut brassica production. UConn Extension Vegetable and Fruit Growers' Conference, Storrs, CT.
16. **Everhart^, S.E.,** and B.B. Tiamiyu. 2024. Predictive model to link N fertilization with fungal plant pathogen proliferation and disease severity. SoilTech Industry Advisory Board Meeting, April 3-4, 2024, Seattle, WA.
17. **Everhart^, S.E.**, R.L. Davis II, D.G. Cerritos-Garcia, A.Martin, E.H. Nieto-Lopez, R. and Koch-Bach. 2024. Epidemiology and etiology of Alternaria blight and head rot of broccoli in the Eastern United States. 13th International Epidemiology Workshop, Foz do Iguazo, Brazil. *Invited Presentation.*
18. Martin^, A., R.L. Davis II, D.G. Cerritos-Garcia, S. Kodati, and **S.E. Everhart**. 2024. Temperature and leaf wetness (pilot) trial and errors. UConn CAHNR Graduate Student Research Forum poster presentation on April 2024, Storrs, CT.
19. Mohamed^, A.S., B.B. Tiamiyu, S. Kodati, and **S.E. Everhart**. 2024. Predictive model to link N fertilization with fungal pathogen proliferation and disease severity. UConn CAHNR Graduate Student Research Forum poster presentation on April 2024, Storrs, CT.
20. Tiamiyu^, B.B., E. Nieto-Lopez, R. A. Koch Bach, S. Kodati, N. Gambhir, and **S.E. Everhart**. 2024. Population genetic characterization of *Sclerotinia sclerotiorum* from USA soybean and dry bean using AmpSeq, and development of an informational survey to assess NSI impacts. Proceedings of the 22nd National Sclerotinia Initiative, 2024 Annual Meeting, January 17-18, 2024, Fargo, ND.
21. Tiamiyu^, B.B., E. Nieto-Lopez, R. A. Koch Bach, S. Kodati, N. Gambhir, and **S.E. Everhart**. 2024. Population genetic characterization of *Sclerotinia sclerotiorum* from USA soybean and dry bean using AmpSeq, and development of an informational survey to assess NSI impacts, UConn One Health Conference poster presentation, April 1, 2024, Storrs, CT.
22. Cerritos-Garcia^, D.G., R.L. Davis II, C.D. Smart, D. Langston, S. Rideout, B. Dutta, and **S.E. Everhart**. 2023. Fungicide sensitivity of *Alternaria* causing leaf blight and head rot of brassicas in the Eastern US to QoIs using a high throughput microplate assay. 2023 APS Northeastern Division Meeting, Southington, CT.
23. Cerritos-Garcia^, D.G., R.L. Davis II, and **S.E. Everhart**. 2023. Alternaria in Connecticut brassica production. UConn Extension Vegetable and Fruit Growers' Conference, Storrs, CT.
24. Cerritos-Garcia^, D.G., R.L. Davis II, and **S.E. Everhart**. 2023. Alternaria blight and head rot population genetics and fungicide resistance. SCRI Stakeholder Advisory Panel Meeting, Online.
25. Davis II^, R.L., D.G. Cerritos-Garcia, A.G. Martin, M.G. Fenton Jr., K.D. Patel, H. Betaw, C. Hoepting, S. Rideout, D. Langston, C. Smart, B. Dutta, and **S.E. Everhart.** 2023. Characterizing the population structure of Alternaria blight and head rot of broccoli on the East Coast of the United States Plant Health 2023. Denver, CO.
26. **Everhart^, S.E.** 2023. From pattern to process: Investigating the role of low-dose fungicides in the emergence of fungicide resistant fungal plant pathogens. International Homeopathy Conference, Farmington, CT. *Invited presentation.*
27. Cerritos-Garcia^, D., E. Nieto-Lopez, R. Koch Bach, A. Petkar, C. C. Smart Hoepting, D. Langston, S. Rideout, B. Dutta, and **S.E. Everhart.** 2022. Species-dependent sensitivity to azoxystrobin observed among causal agents of Alternaria leaf blight and head rot in brassica crops in the eastern US. APS Plant Health 2022 meeting poster presentation on August 9, 2022.
28. Gabriel Peralta^, S., G. Adams, L. Winton, K. Cerny, and **S. Everhart**. 2022. Comparison of *Gemmamyces piceae* from Alaska and Europe using phylogenetics and whole-genome sequencing. APS Plant Health 2022 meeting poster presentation on August 9, 2022.
29. Mane^, A. **S. Everhart**, T. Jackson-Ziems. 2022. Understanding stakeholder perceptions of foliar fungicide use in Nebraska soybean production. APS Plant Health 2022 meeting poster presentation on August 9, 2022.
30. Petkar, A., T. Doss, K. Patel, T. Torrance, R. Koch Bach, and **S. Everhart.** 2022. Host range, aggressiveness and fungicide sensitivity of *Alternaria brassicicola* affecting broccoli in Georgia. APS Plant Health 2022 meeting poster presentation on August 9, 2022.

31. Stricker, S., J. Hempfling, L. du Toit, D. Gent, C. Gallup, and **S.E. Everhart.** 2022. IDEA CAFÉ: How to grow and mobilize a committee or office. APS Plant Health 2022 Idea Café discussion group on August 8, 2022.
32. Gabriel Peralta^, S.M., N. Gambhir, G.C. Adams, L. Winton, K. Cerny, and **S.E. Everhart.** 2021. Alaskan fungi attributed to cause bud blight disease in spruce share several similarities. 2021 Plant Health poster presentation.
33. Gabriel Peralta^, S.M., N. Gambhir, G.C. Adams, L. Winton, K. Cerny, and **S.E. Everhart.** 2021. Populations of *Gemmamyces piceae* causing bud blight disease of spruce in Alaska are different from European populations. 2021 Plant Health poster presentation.
34. Mane^, A., T.A. Jackson-Ziems, and **S.E. Everhart**. 2021. Determining the detection threshold when pooling samples for rapid detection of QoI resistance in *Cercospora sojina*. APS Plant Health 2021.
35. Mane^, A., T.A. Jackson-Ziems, and **S.E. Everhart**. An assessment of foliar fungicide use for soybean disease management in Nebraska. 2021 Plant Health poster presentation.
36. Nieto-Lopez^ E.H., T.J.J. Miorini, C.A. Wolkup-Gil, M. Chilvers, L.J. Giesler, T.A. Jackson-Ziems, M. Kabbage, D.S. Mueller, D.L. Smith, J.M. Tovar-Pedraza, J.F. Willbur, and **S.E. Everhart.** 2021. Fungicide sensitivity of *Sclerotinia sclerotiorum* from USA soybean and dry bean compared to different regions and climates. 2021 Plant Health poster presentation.
37. Nieto-Lopez^, E.H., N. Gambhir, T.J.J. Miorini, C.A. Wulkop-Gil, M. Chilvers, L.J. Giesler, T.A. Jackson-Ziems, M. Kabbage, D.S. Mueller, D.L. Smith, J.M. Tovar-Pedraza, J.F. Willbur, and **S.E. Everhart**. 2021. Characterization of *Sclerotinia sclerotiorum* from U.S. soybean and dry bean from different regions and climates using AmpSeq. 2021 Plant Health poster presentation.
38. Nieto-Lopez^, E.H., T. Doss, B. Dutta, A. Petkar, D.B. Langston, S.L. Rideout, C.D. Smart, and **S.E. Everhart**. Investigation into the loss of fungicide efficacy for Alternaria leaf blight and head rot of broccoli and cruciferous crops in the eastern USA. 2021 Plant Health poster presentation.
39. Gambhir^, N., S. Kodati, A.O. Adesemoye, A.O. Olutoyosi, K. Bissonnette, C. Bradley, M. Chilvers, A.M. Fakhoury, T.A. Jackson-Ziems, L.F.S. Leandro, C.R. Little, D.K. Malvick, F.M. Mathew, B.D. Nelson, G. Sassenrath, D.L. Smith, D.E.P. Telenko, K.A. Wise, and **S.E. Everhart**. 2020. Distribution and population structure of *Rhizoctonia zeae* in the North Central United States. APS Plant Health 2020 Meeting poster presentation on Aug. 3, 2020.
40. Gambhir^, N., S. Kodati, A.O. Adesemoye, and **S.E. Everhart.** 2020. Fungicide resistance: Screening and risk-assessment of *Rhizoctonia zeae* populations in Nebraska. APS Plant Health 2020 Meeting oral presentation on Aug. 14, 2020.
41. Higgins, R., C. Wulkop, E.H. Nieto-Lopez, and **S.E Everhart**^. 2020. Sources of white mold resistance derived from wide crosses in common bean and fungicide sensitivity of *Sclerotinia sclerotiorum* from multi-site locations. National Sclerotinia Initiative Meeting, January 25, 2020.
42. Mane^, A., T.A. Jackson-Ziems, C.A. Bradley, and **S.E. Everhart**. 2020. Rapid detection of QoI fungicide resistance in *Cercospora sojina* and characterization of populations in Nebraska. APS Plant Health 2020 Meeting oral presentation on Aug. 13, 2020.
43. Nieto-Lopez^, E.H., T.J.J. Miorini, M. Chilvers, L.J. Giesler, T.A. Jackson-Ziems, M. Kabbage, D.S. Mueller, D.L. Smith, J.M. Tovar-Pedraza, J.F. Willbur, and **S.E. Everhart**. 2020. Fungicide sensitivity of *Sclerotinia sclerotiorum* from dry bean and soybean in the U.S. APS Plant Health 2020 Meeting poster presentation on Aug. 3, 2020.
44. Da Silva, K.F., D. Golick, J. Hedrick, J. Louis, and **S. Everhart**^. 2019. Nationwide assessment of leadership development for graduate students in agricultural plant sciences. *North American Colleges and Teachers of Agriculture*. Twin Falls, ID.
45. Da Silva^, K.F., D. Golick, J. Louis, and **S.E. Everhart**. 2019. Nationwide assessment of leadership development for graduate students in agricultural plant sciences. *APS Plant Health*, Cleveland, OH.
46. Da Silva^, K.F., J. Louis, and **S.E. Everhart**. 2019. Maize phytohormonal crosstalk under multiple biotic stressors. *APS Plant Health*, Cleveland, OH.
47. Da Silva^, K.F., J. Louis, and **S.E. Everhart**. 2019. Plants under attack: Maize phytohormonal crosstalk during multiple biotic stressors. *Entomological Society of America,* St. Louis, MO.

48. **Everhart^, S.E.** 2019. Why diversity matters: From disease management to the next big scientific breakthrough. *Department of Agronomy & Horticulture Seminar Series*, Lincoln, NE.
49. **Everhart^, S.E.** 2019. Understanding evolution and epidemiology of fungal plant pathogens to mitigate disease in the U.S. *UNL–Kobe University 2nd Annual Research Symposium*, Lincoln, NE
50. Gambhir^, N., S. Kodati, A.O. Adesemoye, and **S.E. Everhart**. 2019. Fungicide sensitivity and population structure of *Rhizoctonia zeae* isolated from soybean and corn in the North Central U.S. *APS Plant Health*, Cleveland, OH.
51. Gambhir^, N., Z. Kamvar, and **S.E. Everhart**. 2019. Genomic alterations in *Sclerotinia sclerotiorum* after sub-lethal fungicide exposure. *APS Plant Health*, Cleveland, OH.
52. Kodati^, S., A.O. Adesemoye, G.Y. Yuen, and **S.E. Everhart**. 2019. Diversity and pathogenicity of *Rhizoctonia* spp. from the Sandhills Grassland of Nebraska. *APS Plant Health*, Cleveland, OH.
53. Marroquin-Guzman^, M.R., C. Proctor, J. McMechan, A.O. Adesemoye, and **S.E. Everhart**. 2019. Dynamics of soil microbial communities associated with cover crops in soybean-corn rotation systems in Nebraska. *APS Plant Health*, Cleveland, OH.
54. Matczyszyn, J., **S. Everhart**, T. Harris, K. Powers, and T. Powers. 2019. Phylogenetic and population structure of *Mesocriconema xenoplax* across the United States. *National Meeting of the Society of Nematologists*, Raleigh, N.C.
55. Matczyszyn, J., T.O. Powers, and **S.E. Everhart**. 2019. Plant parasites in the wild: Community analysis of Criconematidae nematodes in Great Smoky Mountains National Park. *National Meeting of the Society of Nematologists*, Raleigh, N.C.
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