

## FRANCESCA PEDUTO HAND

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### EDUCATION

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- 2008 Ph.D., Plant Pathology, University of Florence, Italy  
2003 Laurea Magistrale (equivalent to a combined BS + MS degree), Agricultural Science and Technologies, University of Florence, Italy

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### PROFESSIONAL APPOINTMENTS

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- 2024 – *pres.* Professor, Plant Pathology, The Ohio State University, Columbus, OH, USA  
2019 - 2024 Associate Professor, Plant Pathology, The Ohio State University, Columbus, OH, USA  
2013 - 2019 Assistant Professor, Plant Pathology, The Ohio State University, Columbus, OH, USA  
2009 - 2012 Postdoctoral Researcher, Plant Pathology, University of California, Davis, CA, USA  
2008 - 2009 Postdoctoral Researcher, Plant Pathology, University of Florence, Italy  
2004 - 2008 Graduate Research Associate, Plant Pathology, University of Florence, Italy  
2003 Research Assistant, National Research Council (CNR), Tree and Timber Institute, Florence, Italy

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### HONORS AND AWARDS

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- 2023 Inclusive Excellence Team Certificate, Office of Diversity & Inclusion (ODI), The Ohio State University  
2023 LEAD21 Graduate, Leadership for the 21<sup>st</sup> Century  
2022 North American Colleges and Teachers of Agriculture (NACTA) Educator Award  
2021 President and Provost Leadership Institute Graduate, The Ohio State University  
2020 Buckeye Access All-Star. Recognition for promoting access for students with disabilities. Student Life Disability Services, The Ohio State University  
2017 Learning Outcomes and Assessment Award of Distinction, College of Food, Agriculture, and Environmental Sciences (CFAES), The Ohio State University. *This was awarded to the entire Academic Affairs committee, of which I was Chair.*  
2014 Leadership Institute Fellow Award, The American Phytopathological Society  
2011 Business Development Fellowship, University of California Davis Graduate School of Management  
2007 Research Award, Carlo and Giulio Marchi Foundation, Florence, Italy  
2006 Graduate Research Fellowship, University of Florence, Italy  
2005 Graduate Research Fellowship, University of Florence, Italy  
2004 Graduate Research Fellowship, University of Florence, Italy

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**PROFESSIONAL MEMBERSHIPS**

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- 2008 – *pres.* The American Phytopathological Society (APS)  
Division membership: North Central (2013 – *pres.*), Southern (2021 – *pres.*), Pacific (2008-2013)
- 2021 – *pres.* International Society for Plant Pathology (ISPP)
- 2025 – *pres.* International Society for Horticultural Science (ISHS)
- 2021 – *pres.* North American Colleges and Teachers of Agriculture (NACTA)
- 2018 – *pres.* American Association for the Advancement of Science (AAAS)
- 2013 – *pres.* Ohio Green Industry Association (OGIA) (*form.* Ohio Nursery and Landscape Association)
- 2023 – 2024 Association of Staff and Faculty Women, The Ohio State University
- 2018 – 2020 The Holly Society of America
- 2014 – 2019 Sigma Xi, The Scientific Research Society - Ohio Chapter
- 2009 – 2012 American Society for Enology and Viticulture (ASEV)
- 2006 – 2013 International Council on Grapevine Trunk Diseases (ICGTD)
- 2004 – 2008 Mediterranean Phytopathological Union (MPU)

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**LEADERSHIP DEVELOPMENT**

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***Leadership trainings***

- 2025 **Leadership Training for Department Chairs**, The Ohio State University  
*This 8-week program includes hands-on leadership scenario activities to prepare future academic leaders and department chairs. Activities revolve around the following topics: organizing faculty meetings, organizational assessment, recruitment and faculty searches, faculty development, performing annual reviews, addressing unprofessional behavior, clarifying own and institutional values, and annual action/strategic plans.*
- 2023 **Academic Leadership Framework Pilot Program**, College of Food Agriculture and Environmental Science, The Ohio State University  
*This 8-week program is designed to support the development of faculty interested in administrative positions. Training sessions are organized around six domains of competence: values and behaviors, developing people, decision making, goal setting, organizational structure, and providing oversight.*
- 2022 – 2023 **LEAD 21**, Leadership for the 21<sup>st</sup> Century.  
*This is a 12-month cohort-based program designed to develop leaders in land grant institutions and their strategic partners. The goals of the program are to (1) enhance application of skills and knowledge learned in five core, and four secondary leadership competencies; (2) develop a peer leadership network to enhance personal leadership practice, collaboration, and diversity of perspective; (3) develop and implement an individual leadership development process.*
- 2019 – 2020 **President and Provost Leadership Institute (PPLI)**, The Women’s Place, The Ohio State University  
*This is a 16-month cohort-based program for long-term faculty leadership development. This is achieved through a series of self-assessments, experiential workshops focused on attention to conflict, negotiations, and difficult conversations, and networking opportunities with university administrators.*

2019 **FastTrack Leadership Program**, College of Food Agriculture and Environmental Science, The Ohio State University  
*This is a 3-day intensive workshop designed to teach participants practical leadership skills, about assessments and their use in organizations, provide perspectives in leadership and leadership challenges, as well as how to motivate people and deal with conflict.*

**Initiatives undertaken to enhance Principles of Community**

2024 – 2025 Member, Diversity Committee, The Ohio State University Senate  
*The committee assesses how well the university promotes and achieves a broad representation of people and ideas in the life of the institution. It recognizes, rewards, and supports efforts by individuals or groups that enhance diversity, and looks for ways the university can improve diversity.*

2022 – 2023 Participant, Inclusive Excellence Team Certificate Program, Office of Diversity and Inclusion (ODI), The Ohio State University.  
*This 9-month program included monthly interactive workshops with facilitators as well as individual group projects. I worked with my team towards completing a capstone project for incorporating DEIJ practices and procedures in departmental affairs. Our work resulted in the development of a proposal that includes a DEIJ mission and vision statements, a code of professional conduct, and the creation of a DEIJ standing committee*

2022 – 2023 Co-organizer and co-facilitator, First-Year Cohort Meetings, Department of Plant Pathology, The Ohio State University.  
*I worked collaboratively with junior faculty members in my department to connect and engage first-year Plant Pathology graduate students across our two campuses. Graduate school can have a steep learning curve, and be filled with feelings of anxiety, isolation, and stress. This group was aimed at building a safe space for this cohort of students to discuss common questions and issues that everyone was facing, as well as a place for individuals to feel supported and encouraged through unique concerns or experiences that they may be facing.*

2022 Participant, “Breaking the Barriers of Gender & Sexual Orientation in the Agricultural Classroom”. North American Colleges and Teachers of Agriculture.  
*By attending this workshop, I increased my awareness of how addressing gender, LGBTQ+, and heteronormativity in our research, teaching, and outreach is critical to increase inclusion and promote equity.*

2021 – 2024 Co-Chair, Diversity, Equity, Inclusion & Justice (DEIJ) ad hoc committee, Department of Plant Pathology, The Ohio State University  
*This committee was established during the Department strategic planning process. As co-Chair of the committee, I facilitated brainstorming sessions to identify strategic goals and priorities related to DEIJ and contributed to the organization of DEIJ-related initiatives such as a seminar series on focused topics.*

2020 – 2021 Co-organizer and co-facilitator, “Partnering for Mentorship: Culturally responsive mentoring for underrepresented minorities (URMs) in CFAES at OSU”.  
*In partnership with three other female faculty members in CFAES I co-developed a training program for under-represented minority faculty mentors and doctoral students to engage in culturally responsive mentoring. This program was designed to support mentors to develop culturally responsive practices and to support mentees to develop the skills needed to navigate the university system and prepare for future faculty careers.*

2019 Participant, “Addressing equity and inclusion in your research mentoring”. Office of Postdoctoral Affairs, The Ohio State University.  
*During this workshop I learned how to acknowledge the impact of conscious and unconscious assumptions, privilege, stereotype threat, and biases in the mentor-mentee relationship. Through group discussion, case studies, and role play, I had the opportunity to learn and practice*

*mentoring skills that deal with diversity matters, and I enhanced my mentoring skills and received resources and materials to support effective mentoring of graduate students and postdoctoral trainees.*

- 2014 Participant, “Build Better Relationships – Leverage Conflict as Opportunity”. Leadership Institute, The American Phytopathological Society  
*This workshop focused on effective workplace behaviors and building relationships, as well as on developing skills to positively resolve conflict in the workplace.*

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## SERVICE & ENGAGEMENT

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Despite not having a formal service appointment in my current position, I am actively involved in the shared governance of my department, College, and University. Service outside of my institution includes active participation within the American Phytopathological Society (APS).

### A. Administrative Service

#### ***Department of Plant Pathology***

- Graduate Studies Committee (Member, 2021 – *pres.*; Chair 2024 – *pres.*)
- Academic Affairs Committee (Member, 2015 – 2021 and 2023 – 2025; Chair 2016 – 2019)
- Faculty Annual Performance Review Committee (Member, 2014, 2018, 2020, 2023, 2025)
- Master of Plant Health Management Graduate Studies Committee (Member, 2013 - 2017)
- Department Vision Committee (Member, 2013 – 2024)
- Diversity, Equity, Inclusion & Justice ad-hoc Committee (co-Chair, 2021 – 2024)
- Plant & Pest Diagnostic Clinic Advisory Committee (Member, 2021)
- Professional Excellence Working Group, Department’s Strategic Planning (Member, 2021 - 2022)
- Future Directions/Hires Writing Group, Department’s Self-Study (Member, 2020)
- Extension and Outreach Writing Group, Department’s Self-Study (Member, 2020)
- Columbus Space, Equipment and Greenhouse Committee (Member, 2020 – *pres.*)
- Teaching Experience Coordinator (2020 – 2023)
- Extension Experience Coordinator (2016 – 2018)
- Master of Plant Health Management Task Force (Member, 2019)
- Seminar Committee (Member, 2014, 2015, 2020)
- Undergraduate Academic Advisor (2014 – 2018)
- Plant Pathology Graduate Student Association Advisor (2024 – *pres.*)

#### ***College of Food, Agricultural, and Environmental Sciences (CFAES)***

- Ohio Controlled Environment Agriculture Center (Board Member, 2020 – *pres.*)
- CFAES Greenhouse Consolidation Task Force (Chair, 2021– 2022)
- CFAES Strategic Alignment Team (Member, 2019 – 2020)
- CFAES Hemp Task Force (Member, 2019 – 2020)
- CFAES Honors Committee (Member, 2018 – 2021)

- ANR Factsheet Review Committee (Member, 2017)
- CFAES Annual Research Conference Poster Committee (Member, 2016 - 2019; Chair 2018 – 2019)
- CFAES Annual Research Forum Poster Competition (Judge, 2023, 2024, 2025)
- CFAES Recognition Programs Committee (Member, 2014)
- Microbial Based Solutions for Agriculture (MBSA) Team (Member, 2015)
- Buckeye Environmental Horticulture Team, OSU Extension (Member, 2021 – *pres.*)
- Extension Nursery, Landscape, and Turf Team (ENLT), OSU Extension (Member, 2013 – 2021)
- Greenhouse Industry Roundtable of the Midwest Team, OSU Extension (Member, 2013 – *pres.*)

### ***The Ohio State University***

- Faculty Council (Member, 2024 – *pres.*)
- University Senate (Member, 2024 – *pres.*)
- University Senate Rules Committee (Member, 2025 – *pres.*)
- University Senate Diversity Committee (Member, 2024 – 2025)
- Infectious Disease Institute (IDI) (Member, 2019 – *pres.*)
- Edward F. Hayes Graduate Research Forum (Judge, 2022, 2023)
- Denman Undergraduate Research Forum (Judge, 2014-2015)
- Plant Sciences Symposium (Judge, 2024)

## **B. Search Committees**

### ***Department of Plant Pathology, The Ohio State University***

- Plant-Associated Molecular Mycology Faculty (Chair, 2024)
- Vegetable Pathology Faculty (Member, 2023)
- Soybean Pathology Faculty (Member, 2020– 2021)
- Fruit Pathology Faculty (Member, 2015)
- Department Chair (Member, 2018)
- Fiscal Officer (Member, 2023)
- Diagnostic Clinic Director (Member, 2018)
- Kottman Greenhouse Manager (Member, 2018)
- Academic Programs Specialist (Member, 2017)

### ***College of Food, Agricultural, and Environmental Sciences (CFAES)***

- Associate Dean and Director of Academic Programs (Member, 2021-2022)
- Department of Entomology Chair (Member, 2018 – 2019)

## **C. Faculty Mentoring**

### ***Mentoring Committees (Assistant Professors)***

- Andres Sanabria-Velazquez (Chair, 2025 – *pres.*)
- Shaohui Wu (Member, 2024 – *pres.*)

- Horacio Lopez-Nicora (Chair, 2021 – *pres.*)
- Mitchell Roth (Member, 2021 – 2023)
- Soledad Benitez Ponce (Member, 2020 – 2023)

**Teaching Evaluation Committees (Associate Professors)**

- Melanie Ivey (Chair, 2024 – *pres.*)

**D. Service to Professional Organizations**

***The American Phytopathological Society (APS)***

- Vice President (2025 – *pres.*)
- Financial Advisory Committee (Member, 2025 – *pres.*)
- Public Policy Board (Member, 2025 – *pres.*)
- Annual Meeting Board (Program Vice Chair, 2025 – *pres.*)
- Office of Public Relations and Outreach Board (Member, 2018 – 2024)
- Diseases of Ornamental Plants Community of Interest (Member, 2013 – *pres.*; Chair 2015-2016)
- Diagnosticians Community of Interest (Member, 2017-2020 and 2025– *pres.*)
- Emerging Diseases and Pathogens Community of Interest (Member 2025– *pres.*)
- Seed Pathology Community of Interest (Member, 2025– *pres.*)
- Plant Pathogen and Disease Detection Subject Matter Committee (Member, 2015 – 2018)
- Turfgrass Pathology Subject Matter Committee (Member, 2015 – 2018)
- Integrated Pest Management Subject Matter Committee (Member, 2011-2014)
- Pitch 120 co-organizer and moderator (Plant Health 2022, 2023)
- Science Communication Workshop co-organizer and co-moderator (Plant Health 2022)
- Ornamentals field trip organizer (Plant Health 2019)
- APS North Central Division Student Poster Competition Judge (Plant Health 2019)
- Moderator for special and technical sessions (APS annual meeting 2015, 2016, 2017)

***Society for Science, Regeneron International Science and Engineering Fair (ISEF)***

- Grand Award Judge (2025)

**E. Editorial Service**

2016-2021 Section Editor, Plant Disease Management Reports, Ornamentals & Trees

2009 - *pres.*

Peer reviewer:

- Canadian Journal of Plant Pathology
- Crop Protection
- HortScience
- Journal of Plant Pathology
- Microbial Ecology
- Phytobiomes
- PhytoFrontiers

- Phytopathologia mediterranea
- Phytopathology
- Plant Disease
- Plant Health Progress
- Toxins

**F. Other Professional Service**

***Grant Reviewer***

2022	American Floral Endowment
2020	Horticultural Research Institute
2019	American Floral Endowment
2018	Horticultural Research Institute
2014	USDA-NIFA-SCRI
2013	Citrus Research and Development Foundation

***External Reviewer - Promotion & Tenure Cases***

2025	University of Kentucky
2025	University of Wisconsin-Madison

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**TEACHING & ADVISING**

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I have a 35% teaching appointment. My responsibilities include undergraduate and graduate classroom instruction, undergraduate and graduate student advising and mentoring, postdoctoral trainee and research staff supervision and mentoring, and service on graduate student dissertation and thesis committees. Additionally, between AU 2015 and AU 2019, I carried out the official role of faculty advisor for undergraduate students in the Plant Pathology and Plant Health Management majors, which involved meeting with these students routinely to plan courses, discuss internship plans, and evaluate progress.

**A. Undergraduate (U) and Graduate (G) Courses Taught**

***Instructor***

AU 2020, 2021, 2022, 2023, 2024, 2025	PLNTPTH 3001, General Plant Pathology Lecture	U
AU 2019, 2020, 2021, 2022, 2023	PLNTPTH 3002, General Plant Pathology Laboratory	U
SP 2014, 2016, 2017; AU 2018, 2019, 2020, 2024	PLNTPTH 5120, Diseases of Ornamental Plants	U/G
SP 2014	PLNTPTH 5604, Problem-based Studies in Plant Health	U/G
SU 2014, 2016, 2018, 2021, 2023, 2025	PLNTPTH 5685, Plant Disease Diagnosis	U/G
AU 2014, 2020; SP 2015;	PLNTPTH 8899, Plant Pathology Seminar	G

SU 2014, 2016, 2018, 2021, 2023; AU 2020, 2021, 2022, 2023	PLNTPH 8901, Mentored Teaching in Plant Pathology	G
SP 2016, 2023; AU 2024	PLNTPH 8902, Mentored Teaching in Extension	G
<b>Guest lecturer</b>		
AU 2015, 2016, 2017, 2018	HCS 3521, Basic Greenhouse Production	U
AU 2019, 2020, 2021, 2022, 2023	HCS 3521, Greenhouse Systems and Management	U
SP 2025	PLNTPH 5050, Plant Pathogenic Fungi	U/G
AU 2024	HCS 5320, Floriculture Crop Production	
AU 2013, 2014, 2015, 2016, 2017, 2018; SP 2019, 2020, 2021, 2022	PLNTPH 5603, Plant Disease Management	U/G
SU 2013, 2015, 2017, 2019	PLNTPH 5685, Plant Disease Diagnosis	U/G
AU 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021	ENT 5800, Pesticide Science	U/G
AU 2019	ENT 7930, Scientific Writing	G

**B. Research Advising**

Category	Current	Completed	Withdrawn
Doctoral Students (dissertation advisor)	2	3	
Doctoral Students (dissertation committee member)	3	7	
Master's Students Plan A (thesis advisor)	-	4	2
Master's Students Plan A (thesis committee member)	2	2	
Master's Students Plan B (independent study advisor)	-	7	
Master's Students Plan B (exam committee member)	-	9	
Undergraduate students (research advisor)	1	17	
Postdoctoral Researchers	-	3	
Research Associates	1	3	
<b>Totals</b>	<b>9</b>	<b>55</b>	<b>2</b>

**Doctoral students (dissertation advisor):**

- 2023 – *pres.* Ambrosia Havan, Department of Plant Pathology, The Ohio State University. Title of dissertation: “Investigating ASD as a Sustainable Soilborne Disease Management Strategy for Ohio’s Cut Flower Industry”. Current position: advisee
- 2023 – *pres.* Timothy Siegenthaler, Department of Plant Pathology, The Ohio State University. Co-advised with Dr. Anna Testen (USDA-ARS). Title of dissertation: “Alternative management strategies of soilborne pathogens affecting high tunnel tomatoes, and the development of genus-wide primers for *Pythium* detection”. Current position: advisee
- 2018 - 2023 Isabel Emanuel, Department of Plant Pathology, The Ohio State University. Title of dissertation: “Understanding host-pathogen and fungal-fungal interactions in the latent fruit rot of winterberry pathosystem”. Graduated: SP 2023. Current position: Science & Technology Policy Fellow, AAAS, Washington, DC.

- 2015 - 2020 Coralie Farinas, Department of Plant Pathology, The Ohio State University. Title of dissertation: "Understanding the powdery mildew disease on the ornamental plant *Phlox*: combining applied and basic research". Graduated: SU 2020. Current position: Plant Pathologist for Regulatory Pathology and Breeder Support with Ball Horticultural Company – Research & Development (Ball Helix), Guadalupe, CA.
- 2014 – 2018 Shan Lin, Department of Plant Pathology, The Ohio State University. Title of dissertation: "Etiology, epidemiology, and management of fruit rot of deciduous holly in U.S. nursery production". Graduated: AU 2018. Current position: Applied Research Supervisor at Driscoll's Inc., Yunnan, China.

**Doctoral students (dissertation committee member):**

- 2024 – *pres.* Hannah Toth, Department of Plant Pathology, The Ohio State University. Title of dissertation: "Using metagenomic sequencing to study relationships between evolution and function in microbial communities of diseased plants". Current position: advisee
- 2024 – *pres.* Alexandra Espinoza, Department of Horticulture & Crop Science, The Ohio State University. Title of dissertation: "Influence of greenhouse environment and cultural conditions on the efficacy of plant growth-promoting bacteria and container microbiome in the production of ornamental plants". Current position: advisee
- 2023 – *pres.* Sara Campigli, Department of Agricultural, Food, and Environmental Sciences and Technologies, University of Florence, Italy. Title of dissertation: "Role of the exopolysaccharide Levan in the life cycle of *Pseudomonas syringae* pv. *actinidiae* biovar 3, a member of the bacterial community of kiwifruit". Current position: advisee
- 2019 – 2024 Jules Butchacas, Department of Plant Pathology, The Ohio State University. Graduated: SU 2024. Title of dissertation: "Emerging Threats to Small Grain Production: Exploring the Tissue-Specific Infection Strategies, Population Genetics, and Virulence Mechanisms of *Xanthomonas translucens* Clade-I, The Causal Agents of Bacterial Leaf Streak on Barley". Current position: unknown
- 2018 – 2024 Taylor Klass, Department of Plant Pathology, The Ohio State University. Graduated: SP 2024. Title of dissertation: "Integrated plant health management in the (meta)genomics era." Current position: Director of the Plant Diagnostic Clinic, University of Arkansas, Fayetteville, AR.
- 2018 – 2021 Wanderson Bucker Moraes, Department of Plant Pathology, The Ohio State University. Graduated: AU 2021. Title of dissertation: "Sampling for Fusarium head blight (FHB) Index Estimation and Quantifying the Effects of Moisture on FHB Development, Mycotoxin Contamination, and their Management in Wheat". Current position: Postdoctoral Researcher, Department of Plant Pathology, The Ohio State University, Wooster, OH.
- 2017 – 2021 Alejandra Jimenez Madrid, Department of Plant Pathology, The Ohio State University. Graduated: SU 2021. Title of dissertation: "Prevalence and characterization of antimicrobial resistant microorganisms in Ohio agricultural crops". Current position: Director, Plant Molecular Diagnostic Lab, University of Georgia, Tifton, GA.
- 2016 – 2020 Kaylee South, Department of Horticulture & Crop Science, The Ohio State University. Graduated: SU 2020. Title of dissertation: "Improving floriculture crop resilience with beneficial bacteria". Current position: Assistant Professor, Virginia Tech, Danville, VA.
- 2014 – 2018 Rachel Capouya, Department of Plant Pathology, The Ohio State University. Graduated: AU 2018. Title of dissertation: "Analysis of microbial communities in three diverse commodity systems". Current position: Postdoctoral Researcher, The Ohio State University, Columbus, OH.

2015 – 2017 Ferdous-E-Elahi. Department of Plant Pathology, The Ohio State University. Graduated: 2018. Title of dissertation: “Identification and management of soft rot of potato”. Current position: unknown

**Master students Plan A (thesis advisor):**

2023 – 2025 Aleacia Laird, Department of Plant Pathology, The Ohio State University. Title of thesis: “Investigation of the pathways of seed transmission in *Xanthomonas campestris* pv. *incanae* and the impact on the seed microbiome”. Graduated: AU 2025

2023 – 2024 Zen McKenzie, Department of Plant Pathology, The Ohio State University. Title of thesis: “Metagenomic Sequencing to Explore the Microbial Community Composition of Ornamental Seeds and its Functions”. Student withdrew from the program at the beginning of their second year for personal reasons.

2022 – 2024 Nicolle Omiotek, Translational Plant Sciences Program, The Ohio State University. Co-advised with Prof. Jonathan Jacobs. Title of dissertation: “Diversity and distribution of *Xanthomonas hortorum* on English Ivy in urban ecosystems”. Graduated: SP 2024 Current position: unknown

2021 – 2023 Daniela Gutierrez Yanez, Department of Plant Pathology, The Ohio State University. Title of thesis: “Supporting Ohio’s specialty cut flower industry through diagnostics, disease management, and outreach”. Graduated: SU 2023. Current position: Research Associate, Department of Plant Pathology, The Ohio State University

2019 – 2020 Cristian Olmos, Department of Plant Pathology, The Ohio State University. Co-advised with Prof. Jonathan Jacobs. Student withdrew from the program for personal reasons during the COVID-19 shutdown

2015 – 2017 Dana Martin, Department of Plant Pathology, The Ohio State University. Graduated: 2017. Title of thesis: “Investigation of the biocontrol activity *in vitro* and *in planta* of different *Pseudomonas* species against important crown, stem, foliar and root pathogens of ornamental crops”. Graduated: SP 2017. Current position: Research Associate, Department of Plant Pathology, The Ohio State University

**Master students Plan A (thesis committee member):**

2025 – *pres.* Catherine Mwanjisi. Department of Plant Pathology, The Ohio State University. Title of thesis: “Monitoring and management of cucurbit downy mildew in Ohio”. Current position: advisee

2024 – *pres.* Lillian Ebeling-Koning. Department of Plant Pathology, The Ohio State University. Title of thesis: “Genetic diversity and dissemination strategies in *Xanthomonas translucens* pv. *translucens* populations”. Current position: advisee

2019 – 2023 Caleb Kime, Department of Plant Pathology, The Ohio State University. Title of thesis: “A Reciprocal Sentinel Planting Approach for Assessment of Risk from Invasive Alien Tree Pests”. Graduated: SP 2023. Current position: unknown

2013 – 2014 Christine Balk, Department of Plant Pathology, The Ohio State University. Title of thesis: “Effective rates of Metalaxyl and assessment of resistance in soybean towards Ohio’s diverse *Pythium* species”. Graduated: SU 2014. Current position: Technical Advisor at The Davey Tree Expert Company, Kent, OH.

**Master students Plan B (independent study advisor):**

2024 – 2025 Anna Williamson, Master in Plant Health Management (MPHM), Department of Plant Pathology, The Ohio State University. Title of Independent Study Project: “Plant Health Series Factsheets for OSU Extension”.

- 2020 – 2021 Amanda Rutan, Master in Plant Health Management (MPHM), Department of Plant Pathology, The Ohio State University. Title of Independent Study Project: “Control of powdery mildew of hemp using biorational products”. Graduated: SU 2021.
- 2019 – 2020 Patrick Hoehn, Master in Plant Health Management (MPHM), Department of Plant Pathology, The Ohio State University. Title of Independent Study Project: “Exploring the effect of beneficial bacteria applications for the control of Tulip Fire in *Tulipa* spp.” Graduated: SP 2020.
- 2018 – 2019 Sara Eff, Master in Plant Health Management (MPHM), Department of Plant Pathology, The Ohio State University. Title of Independent Study Project: “Determining the benefits of agricultural biostimulants use in the greenhouse production of vegetables and ornamentals”. Graduated: SU 2019.
- 2015 – 2017 Zachary Foust, Master in Plant Health Management (MPHM), Department of Plant Pathology, The Ohio State University. Graduated: 2017. Title of Independent Study Project: “Efficacy of Management Tools for Fungal Leaf Spots and Anthracnose”.
- 2014 – 2015 Elizabeth Roche, Master in Plant Health Management (MPHM), Department of Plant Pathology, The Ohio State University. Graduated: 2015. Title of Independent Study Project: “Providing Ohio’s Green Industry with Tools to Identify and Manage Diseases of Ornamental Plants”.
- 2013 – 2014 Anastasia Tonti, Master in Plant Health Management (MPHM), Department of Plant Pathology, The Ohio State University. Graduated: 2014. Title of Independent Study Project: “An extension approach to MPHM”.

**Master students Plan B (examination committee member):**

- 2023 Jayden Black, Master’s in Plant Health Management, The Ohio State University.
- 2022 José Fernandez, Master’s in Plant Health Management, The Ohio State University.
- 2020 Taylor de Gier, Master’s in Plant Health Management, The Ohio State University.
- 2020 Patrick Hoehn, Master’s in Plant Health Management, The Ohio State University.
- 2019 Sara Eff, Master’s in Plant Health Management, The Ohio State University.
- 2018 Kodi Riedel, Master’s in Plant Health Management, The Ohio State University.
- 2017 Zachary Foust, Master’s in Plant Health Management, The Ohio State University
- 2015 Elizabeth Roche, Master’s in Plant Health Management, The Ohio State University
- 2014 Mary Griffith, Master’s in Plant Health Management, The Ohio State University

**Undergraduate students:**

- 2025 – *pres.* Audrey Bajec. Major: Environmental Sciences. Honors Research. Title of project” “Exploring the impact of Soil Texture on Anaerobic Soil Disinfestation for Managing Soilborne Diseases in Cut Flower Production”.
- 2024 – 2025 Nora Conrad. Major: Plant Pathology. Title of project: “Supporting research in ornamental plant pathology”.
- 2024 Hayley Kruerst. Major: Sustainable Plant Systems. Title of project: “Evaluation of rose genotypes for resistance to rose rosette disease and black spot”. Graduated AU 2024.
- 2023 Keely McQuain. Major: Plant Pathology. Title of project: “Surveying *Phytophthora* species in woody ornamentals in Ohio”. Graduated SP 2024.

- 2023 – 2023 Elizabeth White. Major: Plant Pathology. Title of project: “Supporting research in ornamental plant pathology”. Graduated SP 2023.
- 2021 – 2023 Aleacia Laird. Major: Plant Pathology. Title of project: “Investigating the role of light in promoting *Diaporthe illicicola* growth and sporulation”. Graduated SP 2023.
- 2020 – 2021 Isaac Knowles. Major: Environmental Sciences. Title of project: “Biocontrol inoculants in soilless media”. Graduated SU 2021.
- 2019 – 2020 Emily Henderson. Major: Environmental Sciences. Title of project: “Evaluating the effect of temperature on *Diaporthe illicicola* spore germination and hyphal development”.
- 2019 Alexis Wooten. Major: Plant Health Management. Title of project: “Assessment of American sycamores resistance to canker pathogens”.
- 2018 – 2019 Eric Warne. Major: Pharmacy. Title of project: “Development of *In vitro* bioassays for Phlox powdery mildew”. Graduated: SP 2019.
- 2018 – 2019 Sumner Lonseth. Major: Plant Health Management. Title of project: “Supporting research in ornamental plant pathology”.
- 2017 – 2018 Margaret Moodispaw. Major: Plant Pathology. Title of project: “Supporting research in ornamental plant pathology”. Graduated: SP 2018.
- 2016 – 2017 Nathan Gifford. Major: Sustainable Plant Systems. Title of project: Evaluating fungicide efficacy for the control of powdery mildew on *Phlox*. Graduated: SP 2017.
- 2015 – 2016 Jenna Moore. Major: Plant Health Management. Title of project: “Supporting research in ornamental plant pathology”. Graduated: SP 2017.
- 2014 – 2016 Paige Thrush. Major: Plant Health Management. Title of project: “Supporting research in ornamental plant pathology”. Graduated: AU 2015.
- 2015 Dana Martin. Major: Plant Pathology. Title of project: “Supporting research in ornamental plant pathology”. Graduated: SP 2015.
- 2015 Jessica Loucks. Major: Plant Pathology. Title of project: “Evaluating the safety of new fungicides for disease control in perennial ornamental plants”. Graduated: AU 2016.
- 2013 Victoria Nolte. Major: Biomedical Science. Title of project: “Evaluating the effect of pH on *Thielaviopsis basicola* growth and reproduction”. Graduated: SP 2014.

**Postdoctoral Researchers**

- 2022 – 2024 Rachel Capouya. USDA-NIFA-AFRI Postdoctoral Fellow. Current Position: Field Applications Scientist, Element Biosciences.
- 2017 – 2018 Veena Devi-Ganeshan. Current position: Director, Infectious Diseases Institute-Genomics and Microbiology Solutions (IDI-GEMS), The Ohio State University.
- 2014 – 2016 Caterina Villari. Current position: Associate Professor, Warnell School of Forestry and Natural Resources, University of Georgia.

**Research Associates**

- 2022 – *pres.* Dana Martin. Current position: advisee.
- 2020 – 2021 Timothy Ralston. Current position: Research Associate, Department of Plant Pathology, The Ohio State University.
- 2016 – 2017 Maria Bellizzi. Current position: Research Associate, Department of Plant Pathology, The Ohio State University.

2014 – 2015 Michael Kelly. Current position: Research Associate, Department of Plant Pathology, The Ohio State University.

**C. Graduate Faculty Representative in Other Units**

- 03/2025 L. Ammirante, PhD Dissertation, Final Defense, Educational Studies Graduate Program. "The Lived Experiences of Minoritized Students in Public Education".
- 03/2024 M. Beverly, PhD Dissertation, Final Defense, Oral Biology Graduate Program. "The Exposomal Impacts of E-cigarettes on the Oral Microbiome".
- 11/2022 A. Glasser, PhD Dissertation, Final Defense, Public Health Graduate Program. "The Role of Cigar Flavor and Price in Concurrent Use of Cigarillos and Cannabis: An Explanatory Sequential Mixed Methods Study".
- 05/2022 T. Roose, PhD Dissertation, Final Defense, Teaching and Learning Graduate Program. "The Intercultural Dimensions of Reading in English as an Additional Language: A Multiple Case Study".
- 11/2020 A. Lowery, PhD Dissertation, Final Defense, Teaching and Learning Graduate Program. "Buying the Blueprints: Investing Emotionally and Materially in the Icy Ideologies of Disney's Frozen".
- 05/2019 M. Zhang, PhD Dissertation, Final Defense, Teaching and Learning Graduate Program. "Exploring Novice Nonnative English-Speaking Doctoral Students' Experiences with Academic Speaking, Writing, And Speaking-Writing Connections".
- 04/2018 P. Biancone, PhD Dissertation, Final Defense, Physical and Educational Sciences Graduate Program. "The Effects of an Integrated Early Literacy and Motor Skill Intervention on Children's Alphabet Knowledge, Initial Sound Awareness, and Fundamental Motor Skill Outcomes: An Early Efficacy Study".

**D. Noteworthy accomplishments of graduate students**

**Ambrosia Havan** (PhD student, 2023 - present):

- Published two peer-reviewed articles (one as first author).
- Received an APS Foundation Student Travel Award from the American Phytopathological Society to attend Plant Health 2025 in Honolulu, HI (May 2025)
- Was selected for an oral presentation at the American Phytopathological Society annual meeting, Plant Health 2025 (August 2025)
- Won 1<sup>st</sup> place at the 2025 Plant Sciences Symposium for best poster presentation by a graduate student (February 2025)
- Was selected for an oral presentation at the Edward F. Hayes Advanced Research Forum (February 2025)
- Received a CFAES Diversity Fellowship from the OSU College of Food Agriculture and Environmental Sciences (April 2023)
- Received a Graduate Enrichment Fellowship from The Ohio State University Graduate School (March 2023)
- Elected President of the Plant Pathology Graduate Student Association (2024 – pres.)

**Aleacia Laird** (MS student, 2023 – 2025)

- Published one Plant Disease Note as co-author (March 2025)

- Was selected for an oral presentation at the American Phytopathological Society annual meeting, Plant Health 2025 (August 2025)
- Was awarded 1st place in MS Research category at the CFEAS Annual Research Forum Poster Competition (April 2025)

**Daniela Gutierrez Yanez** (MS student, 2021 - 2023):

- Started a Plant Disease Diagnostician Faculty Position at the University of Georgia (July 2025).
- Started a Research Associate position in the Infectious Disease Ecology Laboratory at The Ohio State University (Sep 2023).
- Published three peer-reviewed articles and one editor reviewed article as first author.
- Was selected for an oral presentation at the International Congress of Plant Pathology (ICPP 2023)
- Won a People's Choice Award at the 2023 CFAES Research Forum Poster Competition for best poster presentation (March 2023)

**Isabel Emanuel** (PhD student, 2018-2023):

- Started an AAAS Science Policy Fellowship in Washington DC working on urban agriculture to tackle food deserts and engage communities in green spaces (June 2024). Invited for on campus interviews for faculty positions at Cornell, University of New Hampshire (declined invitation), and University of Georgia (declined invitation).
- Started a Postdoctoral Researcher position at the University of Delaware (May 2023)
- Published nine peer-reviewed articles, six of which as first author, one editor reviewed article, and one book chapter.
- Received the 2022 C.C. Allison Award for Excellence in Research and Service from the OSU Department of Plant Pathology (April 2022).
- Awarded a USDA-NIFA-AFRI Predoctoral Fellowship (\$135,383; Apr 2021)
- Awarded a SEEDS OARDC Graduate Research Enhancement Grant (\$5,000; Feb 2020)
- Received the Roger C. Pearson and Stella Melugin Coakley Student Travel Award from the American Phytopathological Society (\$500; Aug 2022).
- Received a Travel Award from the Department of Plant Pathology Graduate Student Association (\$500; Aug 2020).
- Selected by AmericanHort as a student presenter in the "Floriculture Rising Stars" session during Cultivate '20 (Feb 2020).
- Selected for an oral presentation at the American Phytopathological Society Annual Meeting (Plant Health 2019) in Cleveland, OH (Aug 2019).
- Received the Phil Kozel Memorial Scholarship from the Ohio Nursery & Landscape Association twice (\$1,000, Dec 2018; \$2,000, Jan 2020).
- Received the Carville M. Akehurst Memorial Scholarship from the Horticultural Research Institute (\$3,000; Nov 2018).

**Coralie Farinas** (PhD student, 2015-2020):

- Started a Plant Pathologist position in the regulatory pathology and breeder support unit of Ball Horticultural Company (Ball Helix) (August 2020).
- Published nine peer-reviewed articles, seven of which as first author, and two editor-reviewed articles.
- Received the 2020 C.C. Allison Award for Excellence in Research and Service from the OSU Department of Plant Pathology (May 2020).
- Received the Ohio Nursery and Landscape Association Presidential Award (\$3,000; Jan 2020).

- Received the Bryan A. Champion Memorial Scholarship from the Horticultural Research Institute (\$1,000; Dec 2019).
- Selected by APS as the 2019-2021 Public Policy Board Early Career Intern (Aug 2019).
- Received the Elsie J. and Robert Aycock Student Travel Award from the American Phytopathological Society (Aug 2019).
- Received three career development grants from the Infectious Disease Institute (\$500), the OSU Council of Graduate Students (\$500) and the Department of Plant Pathology (\$500) to attend the “AIBS Communications Boot Camp for Scientists” in Washington, DC (May 2019).
- Named 2018 AmericanHort Scholar. The HortScholars program focuses on professional development for students in horticulture-related fields, and is in conjunction with Cultivate, the industry’s largest all-industry event in North America (July 2018).
- Received the 2017 Phil Kozel Memorial Scholarship from the Ohio Nursery & Landscape Association (\$1,000; Jan 2017).
- Received a Travel Award from the Department of Plant Pathology Graduate Student Association (PPGSA; Aug 2016, 2017, and 2018).
- Received the 2016 Pat and Bobby Moser Scholars Travel Grant (August 2016)

**Cristian Olmos** (MS student, co-advised with Dr. Jonathan Jacobs, 2019-2020):

- Received the Elsie J. and Robert Aycock Student Travel Award from the American Phytopathological Society (Aug 2020).
- Received a Travel Award from the Department of Plant Pathology Graduate Student Association (PPGSA; Aug 2020).
- Received an ENGIE-Axium Incentive Recruitment Scholarship (\$5,000) and a Graduate Enrichment Fellowship from The Ohio State University (Aug 2019)

**Shan Lin** (PhD student, 2014-2018):

- Started an Applied Research Supervisor position at Driscoll’s Inc. (January 2019)
- Published five peer-reviewed articles as first author.
- Received the 2018 C.C. Allison Award for Excellence in Research and Service from the OSU Department of Plant Pathology (April 2018).
- Received the Patricia Ngwira Travel Award from the Department of Plant Pathology Graduate Student Association (PPGSA; Aug 2016, 2017, and 2018).
- Selected for an oral presentation at the American Phytopathological Society Annual Meeting in Tampa, FL and San Antonio, TX (Aug 2016 and 2017, respectively).
- Received the 2016 Pat and Bobby Moser Scholars Travel Grant (August 2016)
- Selected for participation in the Poster Huddle session “Emergent Diseases of Plants” at the 2015 American Phytopathological Society Annual Meeting in Pasadena, CA. Poster huddle sessions offer more in-depth discussion of research findings with poster authors (Aug 2015).
- Won 1<sup>st</sup> place in the Poster Competition at the 2014 OSU Extension Annual Conference and Research Colloquium (Dec 2014).

**Dana Martin** (MS student, 2015-2017):

- Started a Research Associate position at The Ohio State University (Feb 2022)
- Co-authored three peer-reviewed articles and published one editor-reviewed article as first author.
- Received the Elsie J. and Robert Aycock Student Travel Award from the American Phytopathological Society (Aug 2017).

- Selected for a Poster Huddle session on "What makes a good biocontrol?" at the 2016 American Phytopathological Society Annual Meeting in Tampa, FL. Poster huddle sessions offer more in-depth discussion of research findings with poster authors (Aug 2016).
- Received the 2016 Pat and Bobby Moser Scholars Travel Grant (August 2016)

**E. Noteworthy accomplishments of undergraduate students**

**Audrey Bajec**

- Was awarded a CFAES Internal Grant to pursue her Honors research project (April 2025)

**Aleacia Laird**

- Won 1<sup>st</sup> place at the CFAES Annual Research Conference Poster Competition in the Undergraduate Research category (April 2022)
- Co-authored one peer-reviewed research manuscript (Plant Disease)
- Co-authored two peer-reviewed abstracts (Phytopathology)

**Isaac Knowles**

- Co-authored one editor-reviewed publication (Plant Disease Management Reports).

**Emily Henderson**

- Co-authored one editor-reviewed publication (Plant Disease Management Reports).

**Alexis Wooten**

- Co-authored one peer-reviewed research manuscript (Arboriculture & Urban Forestry)
- Co-authored one peer-reviewed abstract (Phytopathology).

**Nathan Gifford**

- Co-authored one editor-reviewed publication (Plant Disease Management Reports).

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**RESEARCH PRODUCTIVITY**

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I have a 35% research appointment. My lab studies fundamental and applied aspects of pathogen biology, epidemiology, and integrated management of diseases impacting the profitability of the ornamental crops industry. We are interested in studying the interactions between pathogens, hosts, and the environments, and translating knowledge into practical solutions for growers to implement to prevent crop losses. Below is a summary of my research productivity.

<b>Type of publication</b>	<b>Number</b>
Peer-Reviewed Journal Articles	61
Chapters in Edited Books	25
Editor-Reviewed Journal Articles	33
Abstracts and Proceedings	82
Bulletins & General Press	41
<b>Total (as of December 16, 2025)</b>	<b>242</b>

## A. Peer-reviewed Journal Articles

1. Falsini, S, Campigli, S, Faraoni, P, Tani, C, Rech, V, Papini, A, Bleve, G, Rizzzo, D, Marcucci, E, Drosera, L, Gnerucci, A, Ranaldi, F, **Peduto Hand F.**, Schiff, S, Marchi, G. (2025). "Observations on *Rhamnus alaternus* L. naturally infected by *Xylella fastidiosa* subsp. *multiplex* ST87 in the Mediterranean maquis of Monte Argentario (Tuscany, Italy)". PLANT PATHOLOGY 74:1813-1829 | <https://doi.org/10.1111/ppa.14129>
2. Brasier, C. M., Grünwald, N. J., Bourret, T. B., Govers, F., Scanu, B., Cooke, D. E. L., Bose, T., Hawksworth, D. L., Abad, Z. G., Albarracin, M. V., Alsultan, W., Altamirano-Junqueira, A. E., Arifin, A. R., Arnet, M. J., Aumentado, H. D. R., Bakonyi, J., Belisle, W. H., Benigno, A., Bienapfl, J. C., Bilodeau, G. J., Blair, J. E., Botella, L., Brandano, A., Cacciola, S. O., Carbone, I., Castroagudin, V. L., Chaendaekattu, N., Consford, J. D., Corcobado, T., Covey, P. A., Daniels, H. A., Deidda, A., Dorrance, A. E., Dort, E. N., Drenth, A., Drizou, F., Evangelisti, E., Fajardo, S. N., Fang, Y., Ference, C. M., Frankel, S. J., Goss, E. M., Guest, D. I., Hardy, G. E. St. J., Harris, A. R. H., Hawku, M. D., Heungens, K., Hong, C., Horner, I. J., Horta Jung, M., Iyanda, O. J., Jamieson, B.-A., Jeffers, S. N., Judelson, H. S., Junaid, M., Kalogeropoulou, E., Kamoun, S., Kang, S., Kasuga, T., Kudláček, T., LeBoldus, J., Lee, C. A., Li, D., Llanos, A. K., Lopez-Nicora, H. D., Machado, H., di San Lio, G. M., Maia, C., Mandal, K., Manosalva, P., Martin, F. N., Matson, M. E. H., McDougal, R. L., McDowell, J. M., Michelmore, R. W., Milenković, I., Moricca, S., Mostowfizadeh-Ghalamfarsa, R., Nagy, Z. Á., Nikolaeva, E. V., Ortega-López, P., Paap, T., Parada-Rojas, C. H., **Peduto Hand, F.**, Perez-Sierra, A., Pettersson, M., Prasad, P., Puig, A. S., Raco, M., Rajput, N. A., Ristaino, J. B., Rooney-Latham, S., Seidl, M. F., Shamoun, S. F., Solla, A., Spies, C. F. J., Sudermann, M. A., Swiecki, T. J., Tian, M., Tripathy, S., Uematsu, S., Van Poucke, K., Vichou, A. E., Walter, M., Webber, J. F., Williams, N. M., Wingfield, M. J., Yadav, D., Yang, X., and Jung, T. (2025). "Preserving the Biologically Coherent Generic Concept of *Phytophthora*, 'Plant Destroyer'. PHYTOPATHOLOGY 115(6): 573-586 | <https://doi.org/10.1094/PHYTO-11-24-0372-LE>
3. Salgado-Salazar, C, Rodriguez, LM, Romberg, MK, Davis, WJ, McConnell, M, Havan, AE, **Peduto Hand, F.** (2025). "Where flowers bloom, so do downy mildews: new species and new records of *Hyaloperonospora*, *Peronospora*, and *Plasmopara* species on ornamental and wild plants in the United States". PLANT HEALTH PROGRESS 26(3): 260-283 | <https://doi.org/10.1094/PHP-10-24-0100-RS>
4. Capouya, R, Jacobs, JJ, **Peduto Hand, F.** (2025). "First report of *Phytophthora helicoides* causing root and crown rot on Rhododendron in Ohio and the United States". PLANT DISEASE 109(2): 511 | <https://doi.org/10.1094/PDIS-10-24-2205-PDN>
5. Havan, AE, Laird, A, Salgado-Salazar, C, Martin, DE, **Peduto Hand, F.** (2025). First Report of *Hyaloperonospora* sp. Causing Downy Mildew of Stock (*Matthiola incana*) in Ohio". PLANT DISEASE 109(3): 724 | <https://doi.org/10.1094/PDIS-08-24-1708-PDN>
6. Emanuel, I.B., Cooperstone, J.L., **Peduto Hand, F.** (2024). "Ultra-High Performance Liquid Chromatography-Tandem Mass Spectrometry identification of metabolites in winterberry fruit putatively associated with natural disease resistance to *Diaporthe ilicicola*". PHYTOPATHOLOGY 114(1): 93-101 | <https://doi.org/10.1094/PHYTO-04-23-0130-R>
7. Roman-Reyna V, Sharma, A., Toth, H, Konkel, Z, Omiotek, N, Murthy, S, Faith, S, Slot, J, **Peduto Hand, F.**, Goss, E, Jacobs, J. (2024). "Live tracking of a plant pathogen outbreak reveals rapid and successive, multidecade episome reduction". mSystems 9(2): e00795-23 | <https://doi.org/10.1128/mSystems.00795-23>
8. Gutierrez Yanez D., Testen AL, **Peduto Hand, F.** (2024). "Evaluation of anaerobic soil disinfestation to reduce soilborne diseases in soilless and soil-based substrates for specialty cut flower production". PLANT DISEASE 108(4): 908-919 | <https://doi.org/10.1094/PDIS-05-23-0857-RE>
9. Emanuel, I.B., Cooperstone, J.L., **Peduto Hand, F.** (2023) "Susceptibility screening of winterberry cultivars to latent fruit rot, and identification of metabolites correlated with rot-resistant phenotypes". JOURNAL OF ENVIRONMENTAL HORTICULTURE 41(3): 121-132 | <https://doi.org/10.24266/0738-2898-41.3.121>
10. Campigli, S., Luti, S., Martellini, T., Rizzo, D., Bartolini, L., Carrai, C., Baskarathevan, J., Ghelardini, L., **Peduto Hand, F.**, Marchi, G. (2023). "TaqMan qPCR assays improve *Pseudomonas syringae* pv. *actinidiae* biovar 3 and *P. viridiflava* (PG07) detection within the *Pseudomonas* sp. community of kiwifruit". PHYTOPATHOLOGIA MEDITERRANEA 62(1): 95-114 | <https://doi.org/10.36253/phyto-14400>

11. Emanuel, I.B., Laird, A.E., **Peduto Hand, F.** (2023). "Understanding environmental and physiological factors affecting the biology of *Diaporthe illicicola*, the fungus causing latent fruit rot of winterberry" PLANT DISEASE 107(10): 2986-2996 | <https://doi.org/10.1094/PDIS-11-22-2759-RE>
12. Farinas Simmt, C., Sydnor, D., Wooten, A., White, E., **Peduto Hand, F.**, Bonello, E. (2023). "Field Resistance of American Sycamore 'Davis' to Canker Pathogens". ARBORICULTURE & URBAN FORESTRY 49(4): 170-178 | <https://doi.org/10.48044/jauf.2023.013>
13. Valero-David, G., Emanuel, I.B., Konkel, Z., Martin, D.E., Scott, K., Slot, J.C., **Peduto Hand, F.** (2023). "First report of *Colletotrichum sansevieriae* causing anthracnose of snake plant (*Sansevieria trifasciata*) in Ohio and its draft genome". PLANT DISEASE 107(7): 2252 | <https://doi.org/10.1094/PDIS-10-22-2476-PDN>
14. Gutierrez Yanez, D., Emanuel, I.B., Roman-Reyna, V., Jacobs, J.M., **Peduto Hand, F.** (2023). "First report of *Pseudomonas syringae* causing bacterial leaf spot on winterberry holly (*Ilex verticillata*) in Ohio" PLANT DISEASE 107(7): 2213 | <https://doi.org/10.1094/PDIS-08-22-1879-PDN>
15. Gutierrez Yanez, D., Emanuel, I.B., Martin, D.E., **Peduto Hand, F.** (2023). "Confirmation of *Burkholderia gladioli* as the causal agent of bacterial scab on gladiolus (*Gladiolus*) in Ohio". PLANT DISEASE 107(6): 1937 | <https://doi.org/10.1094/PDIS-10-22-2309-PDN>
16. Emanuel, IB, Konkel, ZM, Scott, KL, Valero-David, GE, Slot, JC, **Peduto Hand, F.** (2022) "Whole genome sequence data of the holotype strain of *Diaporthe illicicola*, a fungus associated with latent fruit rot in deciduous holly". MICROBIOLOGY RESOURCE ANNOUNCEMENTS 11(9):e00631-22 | <https://doi.org/10.1128/mra.00631-22>
17. Roman-Reyna, V, Dupas, E, Cesbron, S, Marchi, G, Campigli, S, Hansen, MA, Bush, E, Prarat, N, Shiplett, K, Ivey, MLL, Pierzynski, J, Miller, SA, **Peduto Hand, F.**, Jacques, M-A, Jacobs, JM. (2021). "Metagenomic sequencing for rapid identification of *Xylella fastidiosa* from leaf samples". mSystems 6(5): e00591-21 | <https://journals.asm.org/doi/10.1128/mSystems.00591-21>
18. Emanuel, IB, Ralston, TI, Chatfield, J, Draper, E, Veil, J, **Peduto Hand, F.** (2021). "First report of *Gymnosporangium yamadae* causing Japanese Apple Rust on crabapple (*Malus* spp.) in Ohio". PLANT DISEASE 105(7):2016 | <https://doi.org/10.1094/PDIS-12-20-2612-PDN>
19. Falsini, S, Tani, C, Sambuco, G, Papini, A, Ranaldi, F, Campigli, S, Ghelardini, L, Bleve, GL, Rizzo, D, Ricciolini, M, Scarpelli, I, Drosera, L, Surico, G, **Peduto Hand, F.**, Marchi, G, Schiff, S. (2021). "*Xylella fastidiosa* subsp. *multiplex* ST 87 infection in *Spartium junceum*: first anatomical study". PROTOPLASMA <https://doi.org/10.1007/s00709-021-01640-2>
20. Guarnaccia, V., **Peduto Hand, F.**, Garibaldi, A., Gullino, M. L. (2021). "Bedding plant production and the challenge of fungal diseases". PLANT DISEASE 105(5):1241-1258 \*Feature Article | <https://doi.org/10.1094/PDIS-09-20-1955-FE>
21. Farinas, C, Jourdan, P, **Peduto Hand, F.** (2021). "Flaming Phlox and the ubiquitous powdery mildew disease". PLANT HEALTH PROGRESS 22(1):11-20 | <https://doi.org/10.1094/PHP-08-20-0070-RV>
22. Roman-Reyna, V, Truchon, A, Sharma, P, **Peduto Hand, F.**, Vinatzer, BA, Jacobs, JM, Allen, C. (2021). "Genome Resource: *Ralstonia solanacearum* phylotype II sequevar 1 (race 3 biovar 2) strain from the 2020 US geranium introduction". PLANT DISEASE 105(1):207-208 | <https://doi.org/10.1094/PDIS-06-20-1269-A>
23. Castroagudin, VL, Weiland, J, Baysal-Gurel, F, Cubeta, M, Daughtrey, M, Gauthier, N, LaMondia, J, Luster, D, **Peduto Hand, F.**, Shishkoff, N, Williams-Woodward, J, Zhang, X, LeBlanc, N, Crouch, JA. (2020). "One clonal lineage of *Calonectria pseudonaviculata* is primarily responsible for the boxwood blight epidemic in the United States." PHYTOPATHOLOGY 110(11):1845-1853 \*Editor's Pick | <https://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO-04-20-0130-R>
24. Farinas, C. and **Peduto Hand, F.** (2020). "First report of *Golovinomyces spadiceus* causing powdery mildew on industrial hemp (*Cannabis sativa* L.) in Ohio". PLANT DISEASE 104(10):2727 | <https://apsjournals.apsnet.org/doi/10.1094/PDIS-01-20-0198-PDN>
25. Farinas, C, Jourdan, P, Paul, PA, Slot, JC, Daughtrey, ML, Devi Ganeshan, V, Baysal-Gurel, F, **Peduto Hand, F.** (2020). "Phlox species show quantitative and qualitative resistance to a population of powdery mildew isolates from the Eastern United States". PHYTOPATHOLOGY 110(8): 1410-1418 | <https://doi.org/10.1094/PHYTO-12-19-0473-R>

26. Baysal-Gurel, F, Farinas, C, **Peduto Hand. F**, Avin, F. (2020). "First report of powdery mildew of Phlox caused by *Golovinomyces magnicellulatus* in Tennessee". *PLANT DISEASE* 104(8): 2294 | <https://apsjournals.apsnet.org/doi/10.1094/PDIS-11-19-2498-PDN>
27. Urbez-Torres, JR, Lawrence, DP, **Peduto Hand. F**, Trouillas, FP. (2020). "Olive twig and branch dieback in California caused by *Cytospora oleicola* and the newly described species *Cytospora olivarum*". *PLANT DISEASE* 104(7): 1908-1917 | <https://doi.org/10.1094/PDIS-09-19-1979-RE>
28. South, KA, **Peduto Hand. F**, Jones, ML. (2020). "Beneficial bacteria identified for the control of *Botrytis cinerea* in petunia greenhouse production". *PLANT DISEASE* 104(6): 1801-1810 | <https://doi.org/10.1094/PDIS-10-19-2276-RE>
29. Klass, TL, Long, JJ, Summers, JA, Roman-Reyna, V, Koebnik, R, Jacobs, JM, **Peduto Hand. F**. (2019). "First report of bacterial blight of peony caused by *Xanthomonas hortorum* in Ohio". *PLANT DISEASE* 103(11):2940 | <https://doi.org/10.1094/PDIS-05-19-1123-PDN>
30. Emanuel, IB, Farinas, C, Lin, S, Pyrzynski, J., Crouch, JA, **Peduto Hand. F**. (2019). "Occurrence of boxwood blight caused by *Calonectria pseudonaviculata* in Ohio landscapes". *PLANT DISEASE* 103(10): 2670 | <https://doi.org/10.1094/PDIS-03-19-0520-PDN>
31. Farinas, C, Gluck-Thaler, E, Slot, JC, **Peduto Hand. F**. (2019). "Whole-Genome Sequence of the Phlox Powdery Mildew pathogen *Golovinomyces magnicellulatus* strain FPH2017-1". *MICROBIOLOGY RESOURCE ANNOUNCEMENTS* 8(36) e00852-19 | <https://mra.asm.org/content/8/36/e00852-19>
32. Farinas, C, Jourdan, P, Paul, PA, **Peduto Hand. F**. (2019). "Development and evaluation of two laboratory bioassays to study powdery mildew pathogens of Phlox in vitro". *PLANT DISEASE* 103(7):1536-1543 | <https://doi.org/10.1094/PDIS-01-19-0031-RE>
33. Lin, S, & **Peduto Hand. F**. (2019). "Determining the sources of primary and secondary inoculum and seasonal inoculum dynamics of fungal pathogens causing fruit rot of deciduous holly". *PLANT DISEASE*, 103(5): 951-958 | <https://doi.org/10.1094/PDIS-09-18-1694-RE>
34. Lin, S, & **Peduto Hand. F**. (2019). "Investigations on the timing of fruit infection by fungal pathogens causing fruit rot of deciduous holly". *PLANT DISEASE*, 103(2): 308-314 | <https://doi.org/10.1094/PDIS-06-18-0973-RE>
35. Lin, S, Taylor, N.J., **Peduto Hand. F**. (2018). "Identification and characterization of fungal pathogens causing fruit rot of deciduous holly." *PLANT DISEASE*, 102(12): 2430-2445 | <https://doi.org/10.1094/PDIS-02-18-0372-RE>
36. Lin, S, Martin, DE, Taylor, NJ, Gabriel, C, Devi Ganeshan, V, **Peduto Hand. F**. (2018). "First report of *Phytophthora* aerial blight caused by *Phytophthora nicotianae* on vinca, lobelia and calibrachoa in Ohio." *PLANT DISEASE*, 102(2):456 | <https://doi.org/10.1094/PDIS-07-17-1057-PDN>
37. Fulcher, A, LeBude, A, Chappell, M, White, S, Marble, C, Chong, J-H, Dunwell, W, Hale, F, Klingeman, W, Knox, G, Derr, J, Braman, SK, Gauthier, N, Dale, A, **Peduto Hand. F.**, Williams-Woodward, J, Frank, S. (2017). "Advancing Integrated Pest Management Adoption and Achieving Extension Impact: A Working Group Success Story". *HORT TECHNOLOGY*, 27(6): 759-764 | <https://doi.org/10.21273/HORTTECH03755-17>
38. Werres, S, Gotz, M, Tomic, Z, Ivic, D, **Peduto Hand. F.**, Gabriel, C, McCann, D, Tooley, PW. (2017). "*Phytophthora* on *Chrysanthemum* (chrysanthus, mums)". *JKI DATA SHEETS, PLANT DISEASES AND DIAGNOSIS*. 2017, 1:3-8.
39. Werres, S, Gotz, M, Tomic, Z, Ivic, D, **Peduto Hand. F**, Gabriel, C, McCann, D, Tooley, PW. (2017). "*Phytophthora chrysanthemi* (Naher, Hi. Watan., Chikuo & Kageyama)". *JKI DATA SHEETS, PLANT DISEASES AND DIAGNOSIS*. 2017, 2:3-14.
40. Lin, S, Martin, DE, Taylor, NJ, Gabriel, C, **Peduto Hand. F**. (2017). "Occurrence of *Phytophthora chrysanthemi* causing root and stem rot of garden mums in the United States." *PLANT DISEASE*, 101(6): 1060 | <https://doi.org/10.1094/PDIS-12-16-1714-PDN>
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### C. Editor-reviewed Journal Articles

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#### D. Abstracts & Proceedings

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2. Havan, AE, **Peduto Hand, F**. (2025). "Evaluating different carbon amendments for the anaerobic disinfection of cut flower soil infested by soilborne pathogens". PHYTOPATHOLOGY (in press)
3. Laird, A, **Peduto Hand, F**. (2025). "Investigating the pathways of seed transmission in *Xanthomonas campestris* pv. *incanae* and the impact on the microbiome of *Matthiola incana* seeds. PHYTOPATHOLOGY (in press)
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## E. Bulletins & General Press

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#### F. Potential publications in preparation or under review

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2. Laird, A, Poelstra, J, Toth, H, McKenzie, Z, Jacobs JM, **Peduto Hand, F.** “Investigation of the pathways of seed transmission in *Xanthomonas campestris* pv. *incanae* and characterization of the microbiome of *Matthiola incana* seeds (in preparation for Plant Disease)
3. Martin, DE & **Peduto Hand, F.** “Evaluation of fungicides for control of Anthracnose on snake plant (*Dracaena trifasciata*) in the greenhouse”. (In preparation for Plant Health Progress)
4. Martin, DE & **Peduto Hand, F.** “Evaluation of fungicides for control of powdery mildew on Phlox (*Phlox paniculata*)”. (In preparation for Plant Health Progress)
5. Martin, DE & **Peduto Hand, F.** “Evaluation of hand-applied granular fungicide to control Phytophthora root rot of Gerbera daisy” (in preparation for Plant Health Progress)
6. Capouya R, Poelstra, J, Jacobs, JM, **Peduto Hand, F.** “Diagnosing Oomycete Root Rots in Woody Ornamentals Using a Metagenomics-Based Approach” (Submitted to PhytoFrontiers on 08/15/2025, under review)
7. **Peduto Hand, F.** “Euonymus Diseases”. In “Diseases of Woody Ornamentals and Trees in Nurseries”, 2<sup>nd</sup> Edition. The American Phytopathological Society. (Submitted to Editors on 09/12/2022; under review).
8. **Peduto Hand, F.** “Honeylocust Diseases”. In “Diseases of Woody Ornamentals and Trees in Nurseries”, 2<sup>nd</sup> Edition. The American Phytopathological Society. (Submitted to Editors on 03/01/2022; under review).
9. Pscheidt, J and **Peduto Hand, F.** “Holly Diseases”. In “Diseases of Woody Ornamentals and Trees in Nurseries”, 2<sup>nd</sup> Edition. The American Phytopathological Society. (Submitted to Editors on 02/08/2022; under review).

**G. Unpublished Scholarly Presentations (*student and trainees’ presentations are not listed*)**

1. **Peduto Hand, F.** “Maximizing Your Experience and Succeeding as a Plant Pathology Graduate Student”. Presented at the OSU Department of Plant Pathology Fall Seminar Series. Columbus, OH, United States 08/29/2025 (invited).
2. **Peduto Hand, F.** “Collaborative Leadership: A vision for fulfilling the land-grant mission in the Agricultural Biology department at CSU”. Presented at the Department of Agricultural Biology Department Head Search Interview. Fort Collins, CO 03/13/2025 (invited)
3. **Peduto Hand, F.** “Managing plant diseases in cut flower production”. Presented at the Association of Utah Cut Flower Growers Annual Conference. Provo, UT 02/01/2025 (invited)
4. **Peduto Hand, F.** “Building a program in ornamental plant pathology from scratch: reflections from the top of the ladder”. Presented at the OSU Department of Horticulture & Crop Science Seminar Series. Columbus, OH, United States 10/2024 (invited).
5. **Peduto Hand, F.** “Supporting the Specialty Cut Flower Industry Through Diagnostics and Sustainable Disease Management Solutions”. Presented at the Association of Specialty Cut Flower Growers Regional Conference. Boulder, CO 09/11/2024 (invited)
6. **Peduto Hand, F.** “Anaerobic Soil Disinfestation: A Sustainable Disease Management Option for Controlling Soilborne Pathogens in Protected Agriculture” BioSolutions. Visalia, CA 03/05/2024 (invited)
7. **Peduto Hand, F.** “Deciphering host-pathogen and fungal-fungal interactions within the latent fruit rot of winterberry pathosystem: from the field to the biochemistry”. Presented at the Case Western Reserve University seminar series. Cleveland, OH, United States, 01/25/2024 (invited)
8. **Peduto Hand, F.** “Exploring sustainable soilborne disease management solutions for specialty cut flower production”. Presented at the International Congress of Plant Pathology, Lyon, France, 8/22/2023 (invited)
9. **Peduto Hand, F.** “Sustainable Disease Management Solutions for Cut Flower Growers”. Presented at the American Floral Endowment Grow Pro webinar series, 10/24/2023 (invited)
10. **Peduto Hand, F.** “Fruit rot of winterberry: eight years of discovery from the field to the biochemistry (with very little money)”. Presented at the University of California Riverside seminar series. Riverside, CA, United States, 10/20/2022 (invited)

11. **Peduto Hand, F.** "Perennial problems of annual plants: how industry and academia can work together to solve them". Presented at the Ball Helix seminar series. Chicago, IL, United States, 8/19/2021 (invited)
12. **Peduto Hand, F.** "Case study: Identification of causal agents and sources of inoculum of pathogens associated with winterberry fruit rot". Presented at the Tennessee State University "Plant Disease Diagnosis and Management" seminar series. McMinnville, TN, United States, 7/9/2020 (invited)
13. **Peduto Hand, F.** "Necessity or luxury? Defining the value of ornamental plants and of collaborative research in ornamental plant pathology". Presented at the Plant Sciences Symposium, online program, United States, 7/23/2020 (invited)
14. **Peduto Hand, F.** "Fruit rot of deciduous holly: past, present and future research". Presented at the 21st Workshop on Ornamental Diseases and Insects. Hendersonville, NC, United States 10/2018 (contributed).
15. **Peduto Hand, F.** and Bonello P. "What in the world is Beech Leaf Disease?" Presented at the 21st Workshop on Ornamental Diseases and Insects. Hendersonville, NC, United States, 10/2018 (contributed).
16. **Peduto Hand, F.** "From grapes to buckeyes: an evolving journey". Presented at the OSU Department of Plant Pathology Seminar Series. Columbus, OH, United States, 3/2017 (invited).
17. **Peduto Hand, F.** "Diagnosis of plant diseases by PCR and isothermal DNA amplification". Presented at the Pest and Disease Diagnostics for International Trade and Food Security - An International Short Course. Wooster, OH, United States, 7/2015 (invited).
18. **Peduto Hand, F.** "Elm Yellows: The Re-emergence of An Old Disease." Presented at the 19th Workshop on Ornamental Diseases and Insects. Hendersonville, NC, United States, 10/2014 (invited).
19. **Peduto Hand, F.** "Spore trapping studies in Ohio's winterberry orchards." Presented at the 19th Workshop on Ornamental Diseases and Insects. Hendersonville, North Carolina, United States 10/2014 (contributed).
20. **Peduto Hand, F.** "Integrated Management of Grapevine Powdery Mildew (*Erysiphe necator*)". Presented at the SmartFruit IPM International Congress. Barcelona, Spain 2/2014 (invited).
21. **Peduto, F.** "Sustainable management of grapevine powdery mildew in California vineyards." Presented at OSU Department of Plant Pathology Seminar Series. Columbus, Ohio, 11/2012 (invited).
22. **Peduto, F.** "Biology, control and resistance management of Botrytis spp. in greenhouse- grown ornamentals." Presented at OSU Department of Plant Pathology Seminar Series. Wooster, Ohio, 11/2012 (invited).

#### H. Inventions Disclosures & Patents

1. Jones, M. L., South K., Chapin, L., **Hand, F. P.**, Taylor, C. G. 2020. Invention Disclosure T2020-192 — "Beneficial bacteria for the control of *Botrytis cinerea* in greenhouse crops".
2. Bonello, P., **Hand, F. P.**, Farinas, C., Sydnor, D. 2018. Invention Disclosure T2018-400 — "Buckeye".

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#### FUNDING

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##### A. Federal

1. **Hand, F.P.** "Efficacy and safety of disease management tools in greenhouse ornamentals". 9/2025 – 7/2026. USDA-NIFA/IR-4 Program (USD 27,000). Research Grant
2. **Hand, F.P.** "Efficacy of management tools for Phytophthora root rots and foliar diseases of boxwood". 10/2024 – 7/2025. USDA-NIFA/IR-4 Program (USD 31,110). Research Grant
3. Byrn, D. et al. (**Hand, F.P.** Co-Pi). "Developing Sustainable Rose Landscapes via Rose Rosette Disease Education, Socioeconomic Assessments, and Breeding RRD Resistant Roses with Stable Black Spot Resistance". 09/2022 - 09/2026. USDA-NIFA-SCRI-SREP. (USD 4,250,000 Total Award). Research Grant
4. Capouya R. (**Hand, F.P.** Co-Pi). "Genome Sequencing for Detection of Phytophthora in Landscape Plants". 08/2022 - 02/2025. USDA-NIFA-AFRI (USD 214,680 Total Award). Research Grant.

5. **Hand, F.P.** "Efficacy of management tools for Phytophthora root rot and non-oomycete root rots - Rhizoctonia". 08/2022 - 07/2023. USDA-NIFA/IR-4 Program (USD 26,250). Research Grant.
6. **Hand, F.P.** "Efficacy of management tools for non-oomycete root rots - Rhizoctonia". 09/2021 - 07/2022. USDA-NIFA/IR-4 Program (USD 12,500). Research Grant.
7. Emanuel, E. (**Hand, F.P.** Co-Pi). "Creation of an integrated disease management plan to control latent fruit rot in deciduous holly". 04/2021 - 03/2023. USDA-NIFA-AFRI (USD 135,383 Total Award). Research Grant
8. Rodriguez, M. et al. (**Hand, F.P.** Co-Pi). "Developing faculty leadership teams to implement inclusive and intentional mentoring programs at 1862 and 1890 Land Grant institutions". 9/2020 – 8/2022. USDA-NIFA Multi-institutional mEntoring Network for Transforming Organizational culture (USD 15,000 Total Award). Training Grant.
9. **Hand, F.P.** "Efficacy of management tools for Pythium root rots". 09/2020 - 08/2021. USDA-NIFA/IR-4 Program (USD 12,500). Research Grant.
10. **Hand, F.P.** "New Disease Products Crop Safety: Foliar applications". 09/2020 - 08/2021. USDA-NIFA/IR-4 Program (USD 4,000). Research Grant.
11. **Hand, F.P.** "New Disease Products Crop Safety: Foliar applications". 09/2019 - 08/2020. USDA-NIFA/IR-4 Program (USD 2,000). Research Grant.
12. **Hand, F.P.** "Non-oomycete root & crown rot efficacy - Thielaviopsis". 09/2019 - 08/2020. USDA-NIFA/IR-4 Program (USD 11,250). Research Grant.
13. **Hand, F.P.** "Non-oomycete root & crown rot efficacy". 10/2018 - 08/2019. USDA-NIFA/IR-4 Program (USD 11,250). Research Grant.
14. **Hand, F.P.** "New Disease Products Crop Safety: Soil applications". 10/2018 - 08/2019. USDA-NIFA/IR-4 Program (USD 3,000). Research Grant.
15. **Hand, F.P.** "New Disease Products Crop Safety: Foliar". 10/2018 - 08/2019. USDA-NIFA/IR-4 Program (USD 2,000). Research Grant.
16. **Hand, F.P.** "Botrytis efficacy: Greenhouse crops". 06/2016 - 05/2017. USDA-NIFA/IR-4 Program. (USD 12,500). Research Grant.
17. **Hand, F.P.** "New Disease Products Crop Safety: Foliar Applications". 06/2016 - 05/2017. USDA-NIFA/IR-4 Program. (USD 5,000). Research Grant.
18. **Hand, F.P.** "Efficacy of Management Tools for Fungal Leaf Spots and Anthracnose". 06/2015 - 05/2016. USDA-NIFA/IR-4 Program. (USD 10,000). Research Grant.
19. **Hand, F.P.** "New Foliar Disease Products Crop Safety ". 04/2015 - 09/2015. USDA-NIFA/IR-4 Program. (USD 5,000). Research Grant.
20. Jones, M. et al. "Identifying opportunities and challenges for the use of bioproducts to increase the sustainability of ornamental and vegetable production in controlled environments". 10/2015 - 04/2016. USDA-NIFA-SCRI (USD 50,000 Total Award). Planning Grant.
21. Chappell, M. et al. "IPM for Shrubs in Southeastern U.S. Nursery Production". 05/2015 - 06/2016. USDA-NIFA Southern IPM Center. (USD 39,532 Total Award). Research Grant.
22. Jasinski, J. et al. "Ohio Extension Implementation Program". 09/2014 - 08/2017. USDA-NIFA-EIP. (USD 867,000 Total Award). Research Grant.

## **B. State**

1. Jacobs J. et al. (**Hand, F.P.** Co-Pi). "Next Generation Advances in Seed Health Fortifying Ohio Specialty Crops Resilience". 07/2023 - 09/2025. Ohio Department of Agriculture Specialty Crop Block Grant. (USD 98,000 Total Award)
2. **Hand, F.P.** "Supporting Ohio's cut flower industry through diagnostics, disease management and outreach". 07/2022 - 09/2025. Ohio Department of Agriculture Specialty Crop Block Grant (USD 110,000). Research Grant.

3. Jacobs J. et al. (**Hand, F.P.** Co-Pi). "Next Generation Diagnostics and Surveillance for Ohio Specialty Crops". 07/2022 - 06/2025. Ohio Department of Agriculture (USD 140,000 Total Award). Research Grant.
4. **Hand, F.P.** "Epidemiology and management of fungal pathogens causing fruit rot of Winterberry holly". 09/2016 - 08/2018. Ohio Department of Agriculture Specialty Crop Block Grant. (USD 56,155). Research Grant.
5. **Hand, F.P.** " Fruit rot of winterberries: a new threat to Ohio's nursery industry ". 09/2014 - 08/2016. Ohio Department of Agriculture Specialty Crop Block Grant. (USD 40,000). Research Grant.

### C. Agencies & Foundations

1. **Hand, FP.** "Investigating the pathways of seed transmission in *Xanthomonas campestris* pv. *incanae*, the causal agent of bacterial blight of Stock, and its impact on the seed microbiome". 8/2025 – 7/2026. American Floral Endowment, Fred C. Gloeckner Foundation Research Fund (USD 22,110). Research Grant.
2. **Hand, F.P.** "Beauty is only skin-deep". 4/2023 – 3/2024. Horticultural Research Institute (USD 31,400). Research Grant.
3. **Hand, F.P.** "Sustainable disease management practices for specialty cut flowers". 8/2022 – 7/2023. Fred C. Gloeckner Foundation (USD 18,711). Research Grant.
4. **Hand, F.P.** "Sustainable disease management solutions and grower education to support the U.S. specialty cut flower industry". 07/2022 - 06/2025. American Floral Endowment (USD 146,693). Research Grant.
5. **Hand, F.P.** "Exploring the use of Anaerobic Soil Disinfestation for control of soilborne pathogens affecting cut flowers". 8/2021 – 7/2022. Fred C. Gloeckner Foundation (USD 14,046). Research Grant.
6. **Hand, F.P.** "A holly jolly Christmas starts with disease free hollies". 4/2021 – 3/2022. Horticultural Research Institute (USD 28,600). Research Grant.
7. **Hand, F.P.** "Phenotypic characterization of infective pathotypes of *Golovinomyces magnicellulatus*, the causal agent of *Phlox* powdery mildew". 09/2017 - 08/2018. Fred C. Gloeckner Foundation. (USD 10,000). Research Grant.
8. **Hand, F.P.** "In vitro screening of perennial *Phlox* germplasm for susceptibility to *Golovinomyces cichoracearum*, the biotroph powdery mildew pathogen. 08/2016 - 07/2017. Fred C. Gloeckner Foundation. (USD 12,000). Research Grant.
9. **Hand, F.P.**, and Jones, M.L. "Evaluating the use of beneficial microorganisms to suppress root rot pathogens and increase drought tolerance in bedding plant plugs". 08/2015 - 02/2017. Fred C. Gloeckner Foundation. (USD 8,000). Research Grant.
10. **Hand, F.P.** "Understanding the Emergent Fruit Rot Disease of Winterberry Holly". T. James Kavanagh Foundation. 12/2014 - 12/2015. (USD 5,000). Research Grant.
11. Gubler, WD (**Peduto F.** wrote proposal but did not have P status). "Grapevine Canker Diseases". 1/2010-12/2010. Unified Grant Management for Viticulture and Enology (UGMVE). (USD 40,000). Research Grant
12. Gubler, WD (**Peduto F.** wrote proposal but did not have PI status). "Grapevine Canker Diseases". 1/2010-12/2010. Unified Grant Management for Viticulture and Enology (UGMVE). (USD 62,000). Research Grant
13. Gubler, WD (**Peduto F.** wrote proposal but did not have PI status). "Grapevine Canker Diseases". 1/2010-12/2010. Unified Grant Management for Viticulture and Enology (UGMVE). (USD 28,700). Research Grant

### D. Industry Contracts

1. **Hand, F.P.** "Botrytis control in greenhouse ornamentals". 03/2025 - 12/2025. BASF. (USD 15,600). Contract.
2. **Hand, F.P.** "Efficacy of preventative fungicide applications on *Phytophthora* aerial blight". 11/2024 – 01/2025. ENVU Environmental Science (USD 8,410). Contract.
3. **Hand, F.P.** "Evaluation of Petunia genotypes for resistance to *Phytophthora nicotianae*". 03/2024 – 12/2024. Syngenta Flowers (USD 20,325). Contract.

4. **Hand, F.P.** “Evaluating the efficacy of registered and unregistered fungicides for managing diseases in greenhouse ornamentals”. 07/2022 - 12/2023. BASF. (USD 10,800). Contract.
5. **Hand, F.P.** “Disease management in greenhouse ornamentals”. 04/2021 - 12/2021. BASF. (USD 15,000). Contract.
6. **Hand, F.P.** “BAS750F/Ornamental Plants – Botrytis efficacy”. 02/2020 - 12/2020. BASF. (USD 7,500). Contract.
7. **Hand, F.P.** “Botrytis control in ornamentals”. 05/2019 – 12/2019. BASF. (USD 9,720). Contract.

**E. Intramural Grants**

1. Emanuel, E. (**Hand, F.P.** Co-Pi). “Investigation into phenolic compounds which selectively impede hyphal initiation and development in deciduous holly fruit”. 06/2020 - 03/2022. OARDC-SEED. (USD 5,000).
2. **Hand, F.P.** " Development of a quantitative loop-mediated isothermal amplification (qLAMP) assay for the detection of airborne inoculum of *Magnaporthe oryzae* in turf ecosystems". 06/2014 - 12/2015. OARDC-SEED. (USD 49,993). Research Grant.

**F. Gifts & Services**

Year	Amount	Source
2025	\$36,900	BASF; Syngenta; Kavanagh Foundation
2024	\$40,000	BASF; Syngenta; Kavanagh Foundation
2023	\$37,000	BASF; Syngenta; Kavanagh Foundation
2022	\$37,150	BASF; Syngenta; Kavanagh Foundation
2021	\$11,300	BASF; Syngenta
2020	\$30,700	BASF; BAYER; Scotts; Syngenta
2019	\$32,000	OHP; Syngenta
2018	\$25,800	BASF; OHP; Syngenta
2017	\$12,600	BASF; Syngenta
2016	\$35,200	OHP; UPI; Syngenta
2015	\$17,400	Syngenta
2014	\$25,575	Jiffy Products of America; Syngenta
2013	\$8,945	Jiffy Products of America; Syngenta

**G. Pending or Unfunded Proposals**

1. 11/2025. Del Castillo, J. **Hand, F. P.**, Meadows, I. “Root defense: Assessing the biosecurity risk of emerging oomycetes in the U.S. ornamental industry”. USDA-NIFA-AFRI (USD 1,000,000 Total Award). Pending.
2. 04/2025. **Hand, F.P.** “Beyond Fumigants: Investing in Sustainable Disease Management for Cut Flower Farming”. American Floral Endowment – Gus Poesch Research Fund (USD 79,212 Total Award). Pending.
3. 04/2025. Owen, G. & **Hand, F.P.** “Leveraging AI-Powered Mini-Unmanned Aerial Vehicles for Early Detection of Botrytis in Hanging Baskets and Floriculture Crops”. American Floral Endowment (USD 100,000 Total Award). Pending.
4. 08/2025. Jacobs, J et al. “The Agricultural Microbiome Data Cooperative (AMDC) – A National Framework for Data-Driven Agricultural Security and Innovation”. USDA-NIFA ODF (USD 958,410 Total Award). Unfunded.

5. 09/2024. Miralha, L et al. "Under the Sustainable Radar: Tracking Tradeoffs between Water and Specialty Crop Production in the North Climate Vulnerable Regions". USDA-NIFA-AFRI (USD 892,844 Total Award). Unfunded.
6. 10/2024. **Hand, F.P** & Slot, J. "Suppressing soilborne pathogens in cut flower production using a circular economy approach". USDA-NIFA North Central SARE (USD 250,000 Total Award). Not invited for a full application.
7. 04/2024. **Hand, FP**. "Sustainable Soilborne Disease Management to Fortify Ohio's Cut Flower Industry". Ohio Department of Agriculture Specialty Crop Block Grant. (USD 120,793 Total Award). Unfunded.
8. 05/2022. Palmer, C. et al. "Driving out Downy Mildew: Improved Disease Management to Increase Profitability of the Green Industry". USDA-NIFA-SCRI-CAP. (USD 5,199,120 Total Award). Unfunded
9. 07/2021. Jacobs, J.J, Roman-Reyna, V, **Hand, FP**, Faith, S. "Quarantine Plant Pathogen Surveillance with Next Generation Diagnostics for US Biosecurity". USDA-NIFA-AFRI Tactical Sciences for Agricultural Biosecurity. Unfunded
10. 05/2021. Byrn, D. et al. "Development of RRD-Resistant Sustainable Rose Cultivars". USDA-NIFA-SCRI-SREP. (USD 4,250,000 Total Award). Ranked "High priority". Unfunded.
11. 05/2021. Palmer, C. et al. "Driving out Downy Mildew: Improved Disease Management to Increase Profitability of the Green Industry". USDA-NIFA-SCRI-CAP. (USD 5,199,120 Total Award). Ranked "High priority". Unfunded.
12. 04/2020. **Hand, FP**. "Increasing disease management tools for Ohio's nursery industry". Ohio Department of Agriculture Specialty Crop Block Grant. (USD 144,821 Total Award). Unfunded.
13. 03/2020. Jacobs, J.J, **Hand, FP**, Ivey, M. L., Miller, SA. "Fortifying Ohio plant disease diagnostics for emerging threats and surveillance". OARDC-SEED Emerging Needs Program. (USD 50,000). Unfunded.
14. 09/2019. Francis, D, Doohan, D, Fresnedo-Ramirez, J, Gschwend, A, Kubota, C, Signorini, G, Michel, F, Carcache de Blanco, E, **Hand, FP**, Canas, L, Phelan, L, Watters, H. "Industrial Hemp Evaluation for medical, food, feed and fiber markets in Ohio". OARDC-SEED Team. (USD 80,000 Total Award). Unfunded.
15. 09/2019. Campbell, B. et al. "Downy Mildew: Critical Disease Management Strategies for High Value Environmental Horticulture Crops". USDA-NIFA-SCRI-CAP. (USD 5,815,334 Total Award). Unfunded.
16. 08/2019. "Development and implementation of LAMP assays for the early detection of plant pathogens impacting the nursery industry". Bonello, E., **Hand, F.P**. USDA-APHIS-PPA7721. (USD 265,505). Unfunded.
17. 05/2019. "Strengthening the sustainability of the U.S greenhouse industry through effective use of biological products". Jones, ML, **Hand, F.P**, Canas, L, Kleinhenz, M, Kumarappan, S, Meador, Konjoian, P, Behe, B, Baysal-Gurel, F, Adesso, K, Paret, M, Ribera, L, Palma, M. USDA-NIFA-SCRI. (USD 3,987,005 Total Award). Ranked "High priority". Unfunded.
18. 10/2018. "Producing healthy floriculture crops with biological inputs". **Hand, F.P**, Jones, ML. OARDC-SEED. \$80,000. Unfunded.
19. 05/2018. "Fruit rot of deciduous holly: understanding pathogen biology and host physiology for effective disease management". **Hand, F.P**. Horticultural Research Institute. \$29,689. Unfunded
20. 02/2018: "Strengthening the sustainability of the U.S greenhouse industry through effective use of biological products". Jones, ML, **Hand, F.P**, Canas, L, Kleinhenz, M, Kumarappan, S, Scheckelhoff, B, Meador, D, Elmer, W, Konjoian, P, Behe, B, Baysal-Gurel, F, Adesso, K, Paret, M, Ribera, L, Palma, M, Palmer, C. USDA-NIFA-SCRI. \$6,625,391. Ranked "High priority". Unfunded.
21. 02/2018: "Applying novel economic management strategies for downy mildews of environmental horticulture crops". Palmer, C, Baron, J, Gul Shad, A, Baysal-Gurel, F, Both, AJ, Campbell, B, Crouch, J, Daughtrey, M, Deng, Z, **Hand, F.P**, Hausbeck, M, Khachatryan, H, Miller, W, Ong, K, Santamaria, L, Shishkoff, N. USDA-NIFA-SCRI. \$5,745,019. Ranked "High priority". Unfunded.
22. 10/2017. "Characterizing the genetic diversity of a North American population of Phlox powdery mildew ". **Hand, F.P**, Jourdan, P. OARDC-SEED. \$80,000. Unfunded.
23. 10/2017. "Investigating the role of temperature in quiescent infections by Diaporthe sp. in Winterberry fruit". **Hand, F.P**. OARDC-SEED. \$50,000. Unfunded.

24. 09/2017. "Identifying and characterizing beneficial bacteria that can confer drought tolerance and suppress root pathogens during the greenhouse production of ornamental plants". Jones, ML, **Hand, F.P.** The Ohio State University Center for Applied Sciences. \$59,856. Unfunded.
25. 09/2017. "Microbial Based Solutions for Agriculture Team". Taylor, CG, Blakeslee, JJ, **Hand, F.P.**, Jones, ML, Kleinhenz, M, Miller, SA, Xia, Y. The Ohio State University Center for Applied Sciences. \$150,000. Unfunded.
26. 05/2017. "Evaluating the interactive effect of biofungicides and biostimulants in suppressing root rot pathogens of ornamental crops". **Hand, F.P.**, Jones, ML. Horticultural Research Institute. \$46,514. Unfunded.
27. 02/2017: "Strengthening the sustainability of the U.S greenhouse industry through effective use of biological products". Jones, ML, **Hand, F.P.**, Canas, L, Kleinhenz, M, Kumarappan, S, Scheckelhoff, B, Meador, D, Elmer, W, Konjoian, P, Behe, B, Baysal-Gurel, F, Adesso, K, Paret, M, Ribera, L, Palma, M, Palmer, C. USDA-NIFA-SCRI. \$6,394,600. Ranked "High priority". Unfunded.
28. 10/2016. "LAMP lights the way: management of Grey Leaf Spot in turfgrass fields through early detection of airborne pathogen's spores". **Hand, F.P.** OARDC-SEED. \$50,000. Unfunded.
29. 06/2016. "LAMP lights the way: management of Grey Leaf Spot in turfgrass fields through spore detection". **Hand, F.P.** USDA-NIFA/Ohio Department of Agriculture Specialty Crop Block Grant. \$110,516. Unfunded.
30. 10/2015. "Evaluating the biocontrol activity of *Pseudomonas* spp. strains against root, stem, and foliar pathogens of ornamental crops". **Hand, F.P.** OARDC-SEED. \$50,000. Unfunded.
31. 03/2015. "Abiotic stress and mechanisms of induced tree susceptibility to fungal pathogens". Bonello, P, Blakeslee, JJ, **Hand, FP**, Slot, JC. USDA-NIFA-AFRI Foundational. \$499,222. Unfunded.

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**EXTENSION**

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I have a 30% Extension appointment. My goal is to enhance knowledge of pathogens' biology, epidemiology, and integrated disease management among Extension clientele through the following programming:

- Development of educational material and participation and presentations at grower-oriented meetings, field days, and diagnostic workshops.
- Support to the Plant & Pest Diagnostic Clinic by contributing to the diagnosis of plant health-related problems in ornamental crops. This is achieved through on-site visits, telephone conversations, email messages, and laboratory processing of submitted samples.
- Development of science-based plant health management strategies to address the disease problems faced by the floriculture, nursery and landscape industries of Ohio (reported in research productivity section of this document).

**A. Extension Teaching**

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Date	Event	Sponsor	Enrolled	Description
12/11/2025	Ohio Turfgrass Foundation Conference & Show. Columbus, OH	Ohio Turfgrass Foundation	31	I gave a 30-min presentation on the top ornamental plant diseases in the landscape, their identification and management.
08/22/2025	Rose Program. Wooster, OH	OSU Department of Plant Pathology	35	I organized a program on rose diseases. I delivered a 60-min presentation on important rose diseases and their management and walked a research demonstration trial on rose rosette disease.

07/15/2025	Cultivate '25 Disease Updates. Columbus, OH	AmericanHort	40	I participated as a panelist and panel moderator for a 60-min discussion on disease updates in the ornamental industry.
07/15/2025	Picarbutrazox Panel. Columbus, OH	Envu Turf & Ornamentals	60	I participated as a panelist for a 30-min discussion on the use of pycarbutrazox for control of oomycete pathogens in ornamentals.
03/31/2025	Winterberry Growers Annual Update. Online Program	OSU Department of Plant Pathology	15	I organized a program to provide nursery growers in Ohio and Eastern US states with an update on the outcomes of our research on fruit rot of winterberries. I prepared and delivered a 60-min presentation and answered questions.
02/26/2025	Ohio Turfgrass Foundation Spring Tee Off. Columbus, OH	Ohio Turfgrass Foundation	15	I gave a 60-min presentation on common and emerging diseases of ornamental plants in the landscape and their management.
02/19/2025	Ohio Commercial Pesticide Applicators Recertification Conferences. Columbus, OH	OSU Extension	32	I gave a 30-min presentation on bacterial diseases of ornamental plants in the greenhouse and their management
12/10/2024	OTF Conference & Show. Columbus, OH	OSU Extension	45	I gave a 45-min presentation on diseases and physiological disorders of boxwood
10/17/2024	Ohio Floriculture & Nursery Conference Columbus, OH	OSU Extension	104	Gave a 60-min presentation on Identification and Management of Common Diseases of Ornamental Plants in Greenhouse and Nursery Production
07/14/2024	Cultivate'24 Columbus, OH	AmericanHort	154	I participated as a panelist for a 60-min discussion on disease updates in the greenhouse industry
05/21/2024	GrowPro Webinar Series	American Floral Endowment	262	I gave a 45 min presentation on root rot diseases in floriculture production and participated in Q&A session
04/24/2024	Butler Co. Home Horticulture Series	OSU Extension	23	I gave a 60-min presentation on Boxwood diseases and their management.
02/22/2024	Ohio Commercial Pesticide Applicators Recertification Conferences. Cincinnati, OH	OSU Extension	32	I gave a 30-min presentation on important diseases of ornamental plants in the greenhouse and their management
02/14/2024	Ohio Commercial Pesticide Applicators Recertification	OSU Extension	40	I prepared a 30-min presentation on important diseases of ornamental plants in the greenhouse and their management. My postdoc Rachel

	Conferences. Columbus, OH			Capouya delivered the presentation due to child sickness.
02/07/2024	Clark Co. Master Gardener Training. Springfield, OH	OSU Extension – Master Gardener Volunteer Program	23	I delivered a 3-hour training module in basic Plant Pathology to Master Gardener Volunteer trainees.
02/01/2024	Tri-State Green Industry Conference. Cincinnati, OH	OSU Extension, UK Extension, Purdue Extension	200	I gave a 60-min presentation on diseases and physiological disorders of boxwood, within a special boxwood symposium.
01/11/2024	Mid-Ohio Growers Meeting. Millersburg, OH	Mid-Ohio Growers Association	250	I developed and delivered a 60-min presentation on diseases of greenhouse floral crops, their identification and management.
12/13/2023	Pesticide Applicator Training Educators In-service. Columbus, OH	OSU Extension	30	I gave a 30-min presentation on important diseases of floriculture crops in cut flower production and their management
12/07/2023	OTF Conference & Show. Columbus, OH	Ohio Turfgrass Foundation	85	I gave a 30-min presentation on emerging diseases of landscape ornamentals and their management
03/14/2023	2023 Summit-Stark-Portage Co. Diagnostic Update. Akron, OH	OSU Extension - Master Gardeners Volunteer Program	105	I gave a 90-min presentation on hot topics in ornamental plant pathology.
03/11/2023	Central Ohio Small Farm Conference. Mansfield, OH	OSU Extension - Small Farm Team	20	I gave a 60-min presentation on diseases of specialty cut flowers, their identification and management.
03/07/2023	NGLCO Dinner and Education. Madison, OH	Nursey Growers of Lake County Ohio Association	38	I gave a 60-min presentation on emerging diseases of nursery crops and provided a research update on established problems in the woody ornamental industry.
02/14/2023	Winterberry Growers Annual Update. Online Program	OSU Department of Plant Pathology	22	I organized a 2-hour program to provide nursery growers in Ohio and Eastern US states with an update on the outcomes of our research on fruit rot of winterberries. I prepared and delivered a 1-hour presentation, facilitated discussion, and answered questions.
02/02/2023	Tri-State Green Industry Conference. Cincinnati, OH	OSU Extension, UK Extension, Purdue Extension	55	I gave a 60-min presentation on emerging diseases of nursery crops and provided a research update on established problems in the woody ornamental industry.
01/18/2023	Maumee Valley Growers 2023 Winter Workshop & Roundtable. Online Program	Maumee Valley Growers Association	25	I gave a 30-min presentation on emerging diseases in ornamental crop production and their control options

01/12/2023	Ohio Commercial Pesticide Applicators Recertification Conferences. Akron, OH	OSU Extension	14	I gave a 30-min presentation on important diseases of ornamental plants in the greenhouse and their management
06/03/2022	Association of Specialty Cut Flower Growers 2022 Farm Tour. Columbus, OH	Association of Specialty Cut Flower Growers (ASCFG)	97	I participated in a disease walk at Sunny Meadows Flower Farm, networked with growers, and shared information on currently funded project on specialty cut flowers
02/17/2022	Clark Co. Master Gardener Training. Springfield, OH	OSU Extension – Master Gardener Volunteer Program	25	I delivered a 3-hour training module in basic Plant Pathology to Master Gardener Volunteer trainees.
02/11/2022	Winterberry Growers Annual Update. Online Program	OSU Department of Plant Pathology	14	I organized a 2-hour program to provide nursery growers in Ohio and Eastern US states with an update on the outcomes of our research on fruit rot of winterberries. I prepared a 1-hour presentation, facilitated discussion, and answered questions.
01/26/2022	2022 Greenhouse Management Workshop. Online Program	OSU Extension - Greenhouse Industry Roundtable of the Midwest	146	I gave a 45-min presentation on disease problems of annual plants in greenhouse production, their identification and management, and participated in a question-and-answer session.
12/15/2021	2021 Pesticide Applicator Training Educators In-service. Columbus, OH	OSU Extension	35	I gave a 30-min presentation to train extension educators on how to recognize important diseases of greenhouse ornamentals and their management.
12/09/2021	OTF Conference and Show. Columbus, OH	Ohio Turfgrass Foundation	50	I gave a 45-min presentation on important diseases of ornamental plants in the urban landscape. I shared information on how to recognize and scout for disease symptoms and signs, how the causal pathogens infect and spread in the landscape, and what tools are available for disease management.
12/09/2021	2021 OSU Green Industry Short Course. Columbus, OH	OSU Extension - Buckeye Environmental Horticulture Team	50	I gave a 45-min presentation on diagnosing diseases of herbaceous plants.
11/22/2021	Knox Co. Master Gardener Training. Online Program	OSU Extension – Master Gardener Volunteer Program	4	I delivered a 2-hour training module in basic Plant Pathology to Master Gardener Volunteer trainees.
03/04/2021	Lunch & Learn Webinar Series. Online Program	OSU Extension - Master Gardeners Volunteer Program	253	I gave a 60-min presentation on common foliar diseases of landscape ornamentals in Ohio with emphasis

				on symptoms/signs recognition and disease management.
01/27/2021	2021 Greenhouse Management Workshop. Online Program	OSU Extension - Greenhouse Industry Roundtable of the Midwest	162	I gave a 60-min presentation on scouting for diseases in greenhouse ornamental crops and how to properly submit diagnostic samples and participated in a question-and-answer session (30 min).
01/21/2021	2021 Greenhouse Growers Day. Online Program	Penn State Extension	128	I was invited by Penn State to give a 60-min presentation on the identification and management of important diseases of ornamental crops in greenhouse production to a group of greenhouse growers.
01/07/2021	2021 OSU Green Industry Short Course. Online Program	OSU Extension - Buckeye Environmental Horticulture Team	33	I gave a 30-min presentation on how to recognize and differentiate between powdery and downy mildews on landscape ornamentals and current management options.
03/03/2020	2020 OTF Spring Kick-off. Columbus, OH	Ohio Turfgrass Foundation	20	I gave a 30-min presentation on the identification and management of important diseases of ornamental plants in Ohio's landscapes.
02/25/2020	Winterberry Growers Annual Update. Online Program	OSU Department of Plant Pathology	10	I organized a 2-hour program to provide nursery growers in Ohio and Eastern US states with an update on the outcomes of our research on fruit rot of winterberries. I prepared and delivered a 1-hour presentation, facilitated discussion, and answered questions.
02/05/2020	Plant Pathology Training. Springfield, OH	OSU Extension – Master Gardener Volunteer Program	31	I delivered a 3-hour training module in basic Plant Pathology to Master Gardener Volunteer trainees.
02/04/2020	Willoway Nursery & Green Circle Growers Meeting.	OSU Extension	75	I prepared a 60-min PowerPoint presentation to update Willoway Nursery & Green Circle Growers on methods of control of ornamental diseases in the greenhouse and nursery.
01/17/2020	2020 Greenhouse Management Workshop. Wooster, OH	OSU Extension - Greenhouse Industry Roundtable of the Midwest	80	I gave a 30-min presentation on the biology and ecology of important pathogens of ornamental crops and participated in a question-and-answer session (30 min).
01/16/2020	2020 Greenhouse Management Workshop. Wooster, OH	OSU Extension - Greenhouse Industry Roundtable of the Midwest	111	I gave a 60-min presentation on greenhouse disease management with an emphasis on environment manipulation and pesticide stewardship.

12/11/2019	2019 Pesticide Applicator Training Educators In-service. Columbus, OH	OSU Extension	75	I gave a 30-min presentation to train extension educators on how to recognize important foliar diseases of greenhouse ornamentals and their management.
12/05/2019	2019 OSU Green Industry Short Course. Columbus, OH	OSU Extension - Buckeye Environmental Horticulture Team	40	I gave a 45-min presentation on the diagnosis and management of diseases of trees and shrubs that are commonly found in Ohio's landscapes.
12/05/2019	2019 OSU Green Industry Short Course. Columbus, OH	OSU Extension - Buckeye Environmental Horticulture Team	40	I gave a 45-min presentation on the diagnosis and management of diseases of annual and perennials that are commonly found in Ohio's landscape beds.
12/03/2019	OSU Green Industry Short Course. Columbus, OH	OSU Extension - Buckeye Environmental Horticulture Team	45	I gave a 45-min presentation on the diagnosis and management of diseases of ornamental plants in the nursery and landscape.
11/07/2019	Western PA Fall Greenhouse Meeting. Wexford, PA	Penn State Extension	70	I was invited by Penn State to give an 80-min presentation on the identification and management of important diseases of floriculture crops in greenhouse production to a group of greenhouse growers.
03/19/2019	Summit-Stark-Portage Co. Master Gardener Volunteers Diagnostic Update. Akron, OH	OSU Extension – Master Gardener Volunteers Program	97	I gave a 90-min presentation on hot topics in ornamental plant pathology Ohio gardens and landscapes to teach attendants how to recognize them and what to do for their control.
12/11/2018	Pesticide Applicator Training Educators In-service. Columbus, OH	OSU Extension	75	I gave a 30-min presentation on emerging diseases of ornamental plants in nursery production.
12/04/2018	OSU Green Industry Short Course. Columbus, OH	OSU Extension - Buckeye Environmental Horticulture Team	15	I gave a 60-min presentation on the outcomes of five years of research on a fungal disease affecting deciduous holly in the Midwest and Eastern United States, including disease etiology, epidemiology, and management options.
12/04/2018	OSU Green Industry Short Course. Columbus, OH	OSU Extension - Buckeye Environmental Horticulture Team	80	I gave a 45-min presentation on the diagnosis and management of diseases of trees and shrubs that are commonly found in Ohio's landscapes.
09/12/2018	Urban Landscape Pest Management Workshop. Columbus, OH	OSU Extension	250	I gave a 45-min presentation on Important diseases of ornamental plants in the urban landscape.

04/25/2018	Miami Valley Water Garden Society Meeting. Dayton, OH	Miami Valley Water Garden Society	40	I gave a 60-min presentation on identification of common plant diseases in the ornamental garden
03/15/2018	Winterberry Growers Annual Update. Online Program	OSU Department of Plant Pathology	14	I organized a 2-hour program to provide nursery growers in Ohio and Eastern US states with an update on the outcomes of our research on fruit rot of winterberries. I prepared a 1-hour presentation, facilitated discussion, and answered questions.
07/27/2017	Mid-America Christmas Tree Grower Association Summer Conference. Wooster, OH	Mid-America Christmas Tree Grower Association	50	I gave a 60-min presentation on important diseases of Christmas trees and their management.
07/15/2017	Cultivate'17 Greenhouse Tour. Granville, OH	AmericanHort	100	I prepared a poster and delivered a 20-min presentation at a greenhouse grower facility to educate attendants about plant pathogens in irrigation water. I interacted with participants throughout the day and answered plant pathology-related questions.
06/28/2017	Conifer Calamities Extension Educators In-Service. Columbus, OH	OSU Department of Plant Pathology	35	I organized a day-long workshop for newly hired ANR Extension Educators to train them in recognizing conifer diseases and pests, and I delivered a 1-hour presentation on conifer rusts.
04/20/2017	Fairfield Co. Master Gardener Volunteers Training. Lancaster, OH	OSU Extension – Master Gardener Volunteers Program	60	I developed and delivered a 90-minute presentation on basic concepts of plant pathology and how to diagnose important diseases for Ohio landscapes as part of their basic training to become certified MGVs.
04/05/2017	Summit-Stark-Portage Co. Master Gardener Volunteers Diagnostic Update. Massillon, OH	OSU Extension – Master Gardener Volunteers Program	100	I gave a 90-min presentation on common diseases of ornamental plants in Ohio gardens and landscapes to teach attendants how to recognize them and what to do for their control.
02/16/2017	Winterberry Growers Annual Update. Online Program	OSU Department of Plant Pathology	12	I organized a 2-hour program to provide nursery growers in Ohio and Eastern US states with an update on the outcomes of our research on fruit rot of winterberries. I prepared a 60-min presentation, facilitated discussion, and answered questions.
02/13/2017	Green Circle Growers & Willoway	OSU Extension	50	Developed and delivered a 60-min presentation on important disease of ornamental plants in greenhouse and

	Nurseries Grower Meeting. Oberlin, OH			nursery production. Topics covered included downy mildews, Phytophthora root rot, Phytophthora blight, Rhizoctonia crown rot, fungal and bacterial vascular wilts.
02/10/2017	Ohio Pesticide Commercial Applicator Recertification Conferences. Dayton, OH	OSU Extension	200	I developed and delivered a 30-min presentation on important diseases of ornamentals in Ohio landscapes and their control with a focus on conifers and perennial shrubs.
02/02/2017	Tri-State Green Industry Conference. Cincinnati, OH	OSU Extension, UK Extension, Purdue Extension	50	I developed and delivered a 60-min presentation covering important disease of greenhouse floral crops. Topics included identification and management of Phytophthora diseases, viruses, and Botrytis diseases.
02/02/2017	Tri-State Green Industry Conference. Cincinnati, OH	OSU Extension, UK Extension, Purdue Extension	200	I developed and delivered a 60-min presentation on how to properly identify and manage important and emergent diseases of trees and shrubs in nurseries and landscapes. Topics covered included new Phytophthora diseases in Ohio, Oak Wilt, Boxwood Blight and Volutella blight.
01/18/2017	Midwest Green Industry Experience. Columbus, OH	Ohio Nursery & Landscape Association	68	I developed and delivered a 1-hour presentation on old and emergent diseases of trees and shrubs in nursery production and urban landscape settings.
12/14/2016	Pesticide Applicator Training Educators In-service. Columbus, OH	OSU Extension	50	I gave a 30-min presentation to train extension educators on how to recognize important diseases of ornamentals and their management.
12/12/2016	A day of diseases Xenia, OH	OSU Extension, Greene Co.	40	I developed and delivered a 1-hour presentation on common diseases of ornamental plants in the homeowner garden, their spread and control.
10/20/2016	2016 Urban Forestry Conference. Granville, OH	Ohio Department of Natural Resources Division of Forestry	85	I developed and delivered a 1-hour presentation on Elm yellows and oak wilt, two emerging and reemerging diseases of urban trees.
08/11/2016	OCLA Summer Field Day. Columbus, OH	Ohio Lawn Care Association	227	I gave a 30-min presentation on symptoms and signs of diseases of trees, shrubs, perennials, and outdoor ornamentals.
08/09/2016	OTF Summer Field Day. Columbus, OH	Ohio Turfgrass Foundation	100	I gave a 30-min presentation on diseases of ornamental plants, their identification, spread, and control.

07/28/2016	Master Gardener Volunteers Diagnostic Update. Newark, OH	OSU Extension Licking Co.	60	I gave a 60-min presentation on important, emergent, and re-emergent diseases in Ohio landscapes, their identification, spread, and available disease management strategies.
07/21/2016	Plant Diseases 101	OSU Extension MGV webinar series. Columbus, OH	17	I gave a 60-min presentation on basic concepts in plant pathology.
07/11/2016	Cultivate'16. Columbus, OH	AmericanHort	150	I gave a 30-min presentation on Important diseases of greenhouse floral crops and their management.
07/11/2016	Cultivate'16. Columbus, OH	AmericanHort	150	I gave a 60-min presentation on new and problematic nursery diseases, including but not limited to research on emerging diseases being done in my program at OSU.
06/10/2016	Master Gardener Volunteers Diagnostic Update. Lebanon, OH	OSU Extension – MGV Program, Warren Co.	55	I gave a 60-min presentation on Important, emergent, and re-emergent diseases in Ohio landscapes, their identification and management.
06/02/2016	Turf & Ornamental Pest and Diseases Extension Educators In-Service. Columbus, OH	OSU Department of Plant Pathology	12	I co-organized a training for new ANR Extension Educators to educate them on recognizing common ornamental diseases in Ohio.
03/17/2016	Summit-Stark-Portage Co. Master Gardener Volunteers Diagnostic Update. Tallmadge, OH	OSU Extension – Master Gardener Volunteers Program	116	I developed and delivered a 90-min presentation on important diseases of trees and shrubs.
03/01/2016	Ohio Pesticide Commercial Applicator Recertification Conferences. Columbus, OH	OSU Extension	300	I developed and delivered a 30-minute presentation on important diseases of ornamentals in Ohio landscapes.
02/24/2016	Winterberry Growers Annual Update. Online Program	OSU Department of Plant Pathology	11	I organized a 2-hour program to provide nursery growers in Ohio and Eastern US states with an update on the outcomes of our research on fruit rot of winterberries. I prepared a 1-hour presentation, facilitated discussion, and answered questions.
02/04/2016	Tri-State Green Industry Conference	OSU Extension, UK Extension, Purdue Extension	50	I developed and delivered a 60-minute presentation covering the most important disease of greenhouse floral crops. Topics included identification and

				management of common root rot pathogens, vascular and foliar pathogens.
02/04/2016	Tri-State Green Industry Conference	OSU Extension, UK Extension, Purdue Extension	200	Developed and delivered a 60-min PowerPoint presentation on how to properly identify and manage important and emergent diseases of trees and shrubs in nurseries and landscapes. Topics covered included Elm Yellows, Phytophthora diseases, Rose Rosette Disease, Boxwood Blight and Fruit Rot of Winterberries
12/16/2015	Pesticide Applicator Training Educators In-service. Columbus, OH	OSU Extension	50	I developed and delivered a 30-min presentation to prepare Educators for PAT trainings. Topic included Phytophthora diseases, boxwood blight, oak wilt and a summary of ornamental fungicide efficacy studies.
12/10/2015	OSU Green Industry Short Course. Columbus, OH	Ohio Turfgrass Foundation	50	Developed and delivered a 60-minute presentation covering the gray leaf spot disease on perennial ryegrass turf. Topics covered included pathogen biology, symptoms and signs of disease, environmental conditions conducive to disease development and management strategies. This was also an opportunity to provide a research update on the use of inoculum detection for disease management.
12/10/2015	OSU Green Industry Short Course. Columbus, OH	Ohio Turfgrass Foundation	100	I developed and delivered a 60-min presentation covering identification and management of the most important diseases of greenhouse woody plants in nurseries and landscapes
09/02/2015	Winterberry Growers Annual Update. Online Program	OSU Department of Plant Pathology	10	I organized a 2-hour program to provide nursery growers in Ohio and Eastern US states with an update on the outcomes of our research on fruit rot of winterberries. I prepared a 1-hour presentation, facilitated discussion, and answered questions.
08/11/2015	OTF Summer Field Day. Columbus, OH	Ohio Turfgrass Foundation	150	I participated in a field day demonstrating and presenting on the use of inoculum detection as a decision support tool to manage fungal diseases of turfgrass.
05/13/2015	Introductory Ornamental Diseases & Pests Extension Educators	OSU Department of Plant Pathology	27	I co-organized a day-long program to train new ANR Extension Educators on how to recognize common ornamental diseases in Ohio. I

	In-Service. Columbus, OH			prepared and delivered a 60-min presentation and interacted with the group answering plant pathology-related questions.
03/18/2015	Winterberry Growers Annual Updtae. Online Program	OSU Department of Plant Pathology	9	I organized a 2-hour program to provide nursery growers in Ohio and Eastern US states with an update on the outcomes of our research on fruit rot of winterberries. I prepared a 1-hour presentation, facilitated discussion, and answered questions.
03/17/2015	Summit-Stark-Portage Co. MGV Diagnostic Update. Massillon, OH	OSU Extension – Master Gardener Volunteers Program	103	I prepared and delivered a 90-min presentation on challenging diseases in Ohio landscapes.
03/14/2015	Summit Co. MGV – Saturday Gardening Series. Akron, OH	OSU Extension – Master Gardener Volunteers Program	112	I prepared and delivered a 60-min presentation on how to diagnose common plant problems.
08/06/2014	OTF Summer Field Day. Columbus, OH	Ohio Turfgrass Foundation	100	I prepared a hands-on session on how to recognize common diseases of landscape ornamentals and shared information on their management.
07/14/2014	Jiffy Products of America educational booth. Columbus, OH	Jiffy Products of America	20	I prepared and delivered a 30-min presentation on key horticultural practices to control plant diseases.
07/13/2014	Cultivate'14. Columbus, OH	AmericanHort	50	I prepared and delivered a 60-min presentation on disease challenges to the cultivation of the ornamental plant Phlox in the landscape.
03/19/2014	Summit-Stark-Portage Co. MGV Diagnostic Update. Canton, OH	OSU Extension – Master Gardener Volunteers Program	102	I prepared and delivered a 90-min presentation on important and emerging diseases in Ohio landscapes.
02/22/2014	Chadwick Arboretum Volunteer Day of Education. Columbus, OH	OSU Extension – Master Gardener Volunteers Program	120	I prepared and delivered a 60-min presentation on two destructive diseases of ornamental crops: impatiens downy mildew and rose rosette disease.
02/19/2014	Ohio Pesticide Commercial Applicator Recertification Conferences. Akron, OH	OSU Extension	300	I developed and delivered a 30-minute presentation on important diseases of ornamentals in Ohio landscapes.
01/30/2014	Ohio Pesticide Commercial Applicator Recertification	OSU Extension	300	I developed and delivered a 30-minute presentation on important diseases of ornamentals in Ohio landscapes.

	Conferences. Dayton, OH			
01/16/2014	2014 Greenhouse Management Workshop	OSU Extension - Greenhouse Industry Roundtable of the Midwest	24	I developed and delivered a 30-minute presentation on plant pathogens in irrigation water and available mitigation strategies.
01/09/2014	Mid-Ohio Growers Meeting. Dalton, OH	Mid-Ohio Growers Association	82	I developed and delivered a 60-min presentation on diseases of greenhouse floral crops, their identification and management.
01/07/2014	Pesticide Applicator Training Educators In-service. Columbus, OH	OSU Extension	50	I developed and delivered a 30-min presentation to prepare ANR Educators for PAT trainings. Topic included downy mildew, black root rot, rose rosette disease, and boxwood blight.
11/21/2013	Floriculture Industry Roundtable of the Midwest – Extension Educator Inservice. Wooster, OH	OSU Extension - Greenhouse Industry Roundtable of the Midwest	10	I developed and delivered a 30-min presentation on root and crown rot diseases of greenhouse floral crops.
09/04/2013	81 <sup>st</sup> Ohio Plant Diagnostic Workshop. Wooster, OH	OSU Extension	61	I prepared and delivered a 60-min presentation on rose rosette and other diseases of note for Ohio. I conducted a hands-on session on disease diagnostics based on symptoms and signs.
08/23/2013	Diefenbacher Greenhouses Field Day. Cincinnati, OH	Diefenbacher Greenhouses	60	I prepared and delivered a 60-min presentation on root rot diseases and provided an update on the research being conducted on impatiens downy mildew.
07/31/2013	OSU Annual Trials Open House. Columbus, OH	OSU Department of Horticulture & Crop Science	40	I prepared and delivered a 60-min presentation on downy mildew of impatiens: disease development and strategies for prevention and management.
07/13/2013	2013 OFA Short Course – Greenhouse Grower Tour. Sunman, IN	Ohio Florist Association	100	I prepared and delivered a 30-min presentation on root and crown rot diseases in greenhouse floral crops. I interacted with participants throughout the day and answered plant pathology-related questions.
03/22/2013	Amish Growers Flower Program. Mt. Hope, OH	Amish Growers	30	I prepared and delivered a 30-min presentation on Botrytis management in greenhouse-grown ornamentals. I led a hands-on training on how to identify common disease symptoms and signs.

**B. Outreach**

<b>Date</b>	<b>Title</b>	<b>Sponsor</b>	<b>Enrolled</b>	<b>Description</b>
3/26/2024	Ohio State University Kindergarten Program. Columbus, OH	OSU	22	I gave a 30-min presentation to kindergarten students about plant pathology and plant health. I answered students' questions.
02/20/2024	Greensview Elementary Guest Reader Program. Columbus, OH	Upper Arlington Schools	30	I gave a 30-min presentation to 3 <sup>rd</sup> grade elementary students about plant pathology and plant health. I answered students' questions about careers in plant pathology.
07/15/2023	Cultivate'23 Production Tour. Wooster, OH	AmericanHort	100	I participated in the planning of a field tour for the Cultivate '23 conference. I interacted with participants throughout the day and answered plant pathology-related questions.
08/03/2022	Floriculture Career Development Training. Online Program	Big Walnut High School. Sunbury, OH	23	I trained high school students in recognizing diseases and disorders of floriculture crops, to prepare them to compete in the FFA – Floriculture Career Development Event. I prepared resource materials and delivered a 90-min presentation.
06/15/2022	Greenhouse Workshops for K-12 Educators. Wooster, OH	OSU Agricultural Technical Institute (ATI)	20	I contributed material for a PowerPoint presentation on disease diagnostics for greenhouse crops to train K-12 teachers in disease identification.
04/13/2021	Floriculture Career Development Event. Online Program	Big Walnut High School. Sunbury, OH	23	I trained high school students in recognizing diseases and disorders of floriculture crops, to prepare them to compete in the FFA – Floriculture Career Development Event. I prepared resource materials and delivered a 40-min presentation.
02/19/2020	Scotts Miracle-Gro R&D team meeting. Marysville, OH	OSU Department of Plant Pathology	18	I gave a 30-min presentation regarding my research program in ornamental plant pathology and participated in a roundtable discussion around collaborative opportunities between OSU and industry partners.
08/03/2019	Discovering Ohio's Ornamental Heritage: From Research, To Farm, To Table. Cleveland, OH	American Phytopathological Society	40	I organized a 1-day field tour for participant of the APS annual meeting Plant Health 2019 to showcase Ohio's ornamental heritage. I coordinated logistics, facilitated discussion among participants and served as resource person before, during and after the tour.

07/13/2019	Cultivate'19 Greenhouse Tour. Sandusky, OH	AmericanHort	100	I participated in the planning of a field tour for the Cultivate '19 trade show across grower facilities in Sandusky, OH. I interacted with participants throughout the day and answered plant pathology-related questions.
07/02/2019	LiFEsports Career Day. Columbus, OH	The Ohio State University	150	I organized a booth to showcase career opportunities in Plant Pathology to middle school students.
07/09/2016	Cultivate'16 Greenhouse Tour. Delaware, OH	AmericanHort	100	I gave a 20-min presentation on how to integrate biopesticides in plant disease management plans for floriculture crops. I interacted with participants throughout the day and answered plant pathology-related questions.
07/11/2015	Cultivate'15 Greenhouse Tour. Granville, OH	AmericanHort	100	I participated in the planning of a field tour for the Cultivate '15 trade show across grower facilities. I interacted with participants throughout the day and answered questions.
07/12/2014	Cultivate'14 Greenhouse Tour. Granville, OH	AmericanHort	50	I participated in the planning of a field tour for the Cultivate '14 trade show across grower facilities. I interacted with participants throughout the day and answered plant pathology-related questions.

**C. Diagnostic Support**

Year	Activity type	Description of Role	No. of samples
2025	Physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	22
2024	Physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	48
2023	Physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	58
2022	Physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	88
2021	Digital and/or physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	28
2020	Digital and/or physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	31
2019	Digital and/or physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	30
2018	Digital and/or physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	13

2017	Digital and/or physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	9
2016	Digital and/or physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	5
2015	Digital and/or physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	6
2014	Digital and/or physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	34
2013	Digital and/or physical sample diagnosis	I provide input on the proper diagnostic process and make management recommendations.	5

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