

# Nichole A. Ginnan, Ph.D.

*Curriculum vitae*

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## RESEARCH INTERESTS

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- Microbiome Sciences
- Plant-microbe interactions
- Global change biology
- Sustainable agriculture
- Microbial culturing
- Plant Pathology
- Multi-omics
- Synthetic microbial communities
- Microbe-microbe interactions
- Microbial ecology and evolution
- Plant physiology
- R programming

## EDUCATION

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### **Doctor of Philosophy (Ph.D.) in Plant Pathology** | September 2014 - June 2020

University of California, Riverside, CA

- *Research Advisor:* Dr. Caroline Roper
- *Committee members:* Dr. Caroline Roper, Dr. Jason Stajich, and Dr. Emma Aronson
  - *Dissertation title:* [Pathogens, Plant Phenology, and Microbial Competition Impact the Structure and Function of the Citrus Microbiome](#)

### **Bachelor of Science (B.S.) in Biology** | September 2010 - January 2014

Long Island University, Brookville, NY

- *Research Advisor:* Dr. Kent Hatch
  - *Research focus:* [Amphibian Ecology](#)

## EXPERIENCE

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### **Research Project Manager II** | November 2022–current

One Health Microbiome Center, Huck Institutes of the Life Sciences  
Pennsylvania State University, University Park, PA

### **Adjunct Researcher** | November 2022 - current

Department of Ecology and Evolutionary Biology  
University of Kansas, Lawrence, KS

### **Postdoctoral Scholar** | September 2020 - October 2022

Department of Ecology and Evolutionary Biology  
University of Kansas, Lawrence, KS

### **Interim Postdoctoral Scholar** | July 2020 - September 2020

Department of Microbiology and Plant Pathology  
University of California, Riverside, CA

### **Graduate Student Researcher** | September 2014 - June 2020

Department of Microbiology and Plant Pathology  
University of California, Riverside, CA

**Research Assistant** | June 2012 - January 2014  
 Department of Biology  
 Long Island University - Post Campus, Brookville, NY

## FELLOWSHIPS

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- 2019–20      **University of California President’s Dissertation Year Fellowship**  
 UC Office of the President; \$22,570 stipend, tuition and fees for 1 year, and \$1,000 in travel funds. This is a highly-competitive merit-based award given to two graduate students each year from across all graduate programs at UC Riverside.
- 2016–19      **National Science Foundation Graduate Research Fellowship**  
 National Science Foundation; \$172,000 stipend, tuition, and fees for 3 years. This program funds graduate students who are anticipated to become experts in their field and contribute to the goal of increasing diversity in science and engineering fields.
- 2014–15      **Dean’s Distinguished Fellowship**  
 University of California - Riverside; stipend, tuition, & fees for 5 yrs (declined last 3 years). This fellowship is awarded to a limited number of outstanding graduate applicants each year.

## GRANTS: SUBMITTED

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**Title:** T32: Biotechnological and Integrative Opportunities in Microbiome Sciences (BIOMS)

**Funding agency:** National Institutes of Health (NIH), NIGMS

**Amount requested:** \$2,956,485

**Role:** Program Director/Principal Investigator (PD/co-PI) (first author of the grant)

**Others involved:** Seth Bordenstein (PD/PI) and Jasna Kovac (PD/co-PI)

**Date submitted:** January 2024

- [\\*Received Impact Score of 23 \(PO stated that it is “highly likely” to be funded pending Council Review\)](#)

**Title:** BII-HEIRS: Holobiont elements influencing response to stress

**Funding agency:** National Science Foundation (NSF), Biology Integration Institute Program

**Amount requested:** \$15,000,000

**Role:** Senior Personnel ([first author of the grant and co-advising plant-related research with Drs. Crandell and Dini-Andreote](#))

**Others involved:** Seth Bordenstein (PI), Sharifa Crandell (co-I), Francisco Dini-Andreote (co-I), Tim Miyrashiro (co-I), Vishal Singh (co-I), Gang Fang (co-I).

**Date submitted:** February 2025

## GRANTS: AWARDED

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**Title:** Mining Bacterial Genomes for Genetic Factors Involved in Microbial Drought Adaptation and Microbially-mediated Drought Tolerance in Plants

**Funding agency:** Seed Grant Program, Center for Genomics Research, University of Kansas

**Amount funded:** \$9,000

**Role:** Principal Investigator (PI)

**Others involved:** Maggie Wagner (co-PI)

**Date awarded:** December 2021

## AWARDS & SMALL GRANTS

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2024	Staff Excellence Award, University Staff Advisory Council, Penn State Univ. <b>(\$500)</b> <ul style="list-style-type: none"> <li>• <i>For embodying the University Values of integrity, respect, responsibility, discovery, excellence, and community.</i></li> </ul>
2020	Charles W. Coggins, Jr. Endowed Scholarship, UC Riverside <b>(\$10,000)</b> <ul style="list-style-type: none"> <li>• <i>For research excellence and benefit to the agricultural industry.</i></li> </ul>
2019	Peter/Pamela Tsao Graduate Student Scholarship, UC Riverside <b>(\$1,000)</b> <ul style="list-style-type: none"> <li>• <i>For excellence in soil-borne disease research.</i></li> </ul>
2019	Earle C. Anthony Travel Grant, UC Riverside <b>(\$1,500)</b>
2019	Edmond C. Calavan Memorial Scholarship Award <b>(\$1,000)</b> <ul style="list-style-type: none"> <li>• <i>For research excellence in the field of plant pathology.</i></li> </ul>
2018	Charles W. Coggins, Jr. Endowed Scholarship, UC Riverside <b>(\$4,642)</b> <ul style="list-style-type: none"> <li>• <i>For research excellence and benefit to the agricultural industry.</i></li> </ul>
2018	Am. Phytopathological Society Moller Student Travel Award <b>(\$500)</b>
2018	Am. Phytopathological Society Mathre Education Endowment <b>(\$1,000)</b>
2017	European Molecular Biology Organization Travel Grant <b>(450 €)</b>
2016	Noble Foundation Best Poster Award, APS annual meeting <b>(\$250)</b>
2016	Audience Choice Award - Best Talk, UC Riverside GradSlam <b>(\$2,000)</b>
2015	Am. Phytopathological Soc. Don/Judy Mathre Educational Award <b>(\$500)</b>
2015–19	Graduate Student Assoc. Travel Grant, UC Riverside <b>(\$300–\$600 yearly)</b>
2015–19	Klotz Memorial Travel Award, UC Riverside <b>(\$500–750 yearly)</b>
2013	Frontier Award in Scientific Research, Long Island University

## PEER-REVIEWED PUBLICATIONS (\* equal contribution; # corresponding author)

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15. **Ginnan NA**#, Crandall S, Imchen M, Dini-Andreote F, Miyashiro TI, Sign V, Ganda E, Bordenstein SR#. (2025). Ecologically Expanding the One Health Framework to Unify the Microbiome Sciences. *mBio*. **Accepted - in press**
14. **The Holobiont Biology Network** [Bordenstein SR#, Gilbert TP, **Ginnan NA**, Malacrino A, Martino ME, Bahrndorff S, Mundra S, Martin MD, Theis KR, Hird SM, Caro-Quintero A, Sharpton TJ, Kohl KD, Barnes CJ, Eisenhofer R, Aizpurua O, Andersen SB, Brealey JC, Noer CL, Medina M, Limborg MT, Alberdi A]. (2024). The disciplinary matrix of holobiont biology. *Science*. 10.1126/science.ado2152
13. Campos Freitas Vieira F, Blacutt A, Drozd C, Viravathana P, **Ginnan NA**, Roper MC. (2024). Thirteen draft genome assemblies of *Bacillus* spp. derived from the citrus microbiome. *Microbiology Resource Announcements*. <https://doi.org/10.1128/mra.00602-24>

12. Aksenov AA#, Blacutt A, **Ginnan NA**, Rolshausen PE, Melnik AV, Lotfi A, Gentry EC, Ramasamy M, Zuniga C, Zengler K, Mandadi K, Dorrestein PC, Roper MC#. (2024). Spatial chemistry of citrus reveals molecules bactericidal to *Candidatus Liberibacter asiaticus*. *Scientific Reports*. 14, 20306 (2024). <https://doi.org/10.1038/s41598-024-70499-z>
11. **Ginnan NA**# and Bordenstein SR#. (2023). It is Time to Authenticate the Microbiome Sciences with accredited educational programs and departments. *PLOS Biology*. 7:21(12):e3002420. DOI: 10.1371/journal.pbio.3002420.
10. Kurbessoian T, Heimlich-Villalta G, **Ginnan NA**, Campos Freitas Vieira F, Rolshausen P, Roper MC#, Stajich J#. (2023). Genome sequence and assembly of 18 *Fusarium* isolates from Florida citrus under high Huanglongbing disease pressure and California citrus under low Huanglongbing disease pressure. *Microbiology Resource Announcements*. DOI: 10.1128/mra.00101-23
9. Xi M, Deyett E, **Ginnan NA**, Ashworth V, Dang T, Bodaghi S, Vidalakis G, Roper C#, Glassman S#, Rolshausen P#. (2022). Geographic location, management strategy and Huanglongbing disease affect arbuscular mycorrhizal fungal communities across US citrus orchards. *Phytobiomes*. 6:4, 342-353. DOI: PBIOMES-03-22-0014-R
8. **Ginnan NA**, De Anda NI, Campos Freitas Vieira F, Rolshausen P, Roper MC#. (2022). Microbial turnover and dispersal events occur in sync with plant phenology in the perennial evergreen tree crop, *Citrus sinensis*. *mBio*. 13:3, 1-18. DOI: 10.1128/mbio.00343-22
7. O'Brien AM, **Ginnan NA**, Rebolleda-Gómez M, Wagner MR#. (2021). Microbial effects on plant phenology and fitness. *American Journal of Botany*. 108:10, 1-14. DOI: 10.1002/ajb2.1743
6. **Ginnan NA**\*, Dang T\*, Bodaghi S, Ruegger P, McCollum G, England G, Vidalakis G, Borneman J#, Rolshausen P#, Roper MC#. (2020). Disease-induced microbial shifts in citrus indicate microbiome-derived responses to Huanglongbing across the disease severity spectrum. *Phytobiomes*. 4:375-387. DOI: PBIOMES-04-20-0027-R
  - [Honorable Mention - Phytobiomes Journal Best Grad. Student Paper 2020](#)
  - [Press release- HLB: The Microbiome's Role, picked up by 6 news outlets](#)
5. Blacutt A, **Ginnan NA**, Dang T, Bodaghi S, Vidalakis G, Ruegger P, Peacock B, Viravathana P, Campos-Vieira F, Drozd, C, Jablonska B., Borneman J, McCollum G, Cordoza J, Meloch J, Berry V, Salazar L, Maloney K#, Rolshausen P#, Roper, MC#. (2020). Development of an in vitro pipeline to screen and select citrus-associated microbiota with potential anti-*Candidatus Liberibacter asiaticus* properties. *Applied and Environmental Microbiology*. 86:8. DOI: 10.1128/AEM.02883-19
4. Su Y, Ashworth V, Geitner N, Wiesner M, **Ginnan NA**, Rolshausen P, Roper C#, Jassby D#. (2020). Delivery, fate, and transport of silver nanoparticles in citrus trees. *ACS Nano*. 14:3, 2966-2981. DOI: 10.1021/acsnano.9b07733

3. Pedroncelli L#, Carter-House D, **Ginnan NA**, Andrews H, Drozd C, DiSalvo B. (2019). The consequences of drought on plant pathology. *Journal of Science Policy and Governance*. 15:1.
2. **Ginnan NA\***, Dang T\*, Bodaghi S, Ruegger P, Peacock B, McCollum G, England G, Roper MC#, Rolshausen P#, Borneman J#. (2018). Bacterial and fungal next generation sequencing datasets and metadata from citrus infected with *Candidatus Liberibacter asiaticus*. *Phytobiomes*. 2:2, 64-70.
1. **Ginnan NA**, Lawrence JR, Russell M, Eggett DL, and Hatch KA#. (2014). Toe clipping does not affect the survival of leopard frogs (*Rana pipiens*). *Copeia*. 2014:4, 650-653.

### PREPRINTS, SUBMITTED, & IN PREPARATION MANUSCRIPTS

(\* equal contribution; # corresponding author)

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1. **Ginnan NA\***, Custódio V\*, Gopaulchan D\*, Ford N, Salas-González I, Jones D, Wells D, Moreno Â, Castrillo G#, Wagner MR#. Persistent legacy effects on soil metagenomes facilitate plant adaptive responses to drought. *Under review at Nature Microbiology*. *BioRxiv preprint: <https://doi.org/10.1101/2024.08.26.609769>*
2. Rodriguez C\*, Sanderson B\*, Tso F, Wagner MR#, **Ginnan NA#**. Geographic and genetic patterns of local adaptation to osmotic and drought stress in *Luteibacter* species. *In preparation*. *Target: GENETICS*
3. **Ginnan NA**, Kural C, Wagner MR#. Comparison of maize, teosinte, and eastern gamagrass physiological responses to water limitation. *In preparation*. *Target: New Phytologist*
4. De Anda NI\*, **Ginnan NA\***, Roper MC#. Microbial competition for iron governs plant microbiome assembly. *In preparation*. *Target: Nature Ecology and Evolution*
5. Garrell A, Swift J, **Ginnan NA**, Tso F, Pal G, Tang C, Hahnke R, Kleiner M#, Wagner MR#. Representative collection of maize root-associated microbes. *In preparation*.

### INVITED TALKS

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2024	USDA-ARS Special Seminar   Salinas, CA
2024	Applied Hologenomics Conference   Copenhagen, Denmark
2023	Corporate Council, American Society for Microbiology   Houston, TX
2023	Penn State University, Microbiome Center Seminar   State College, PA
2022	Phytobiomes Conference   Denver, CO
2022	Oregon State University, Botany and Plant Pathology Seminar   Corvallis, OR
2021	Kansas Microbiomes of Aquatics, Plants, and Soils symposium   Virtual
2020	McGill University Plant Sciences seminar   Montreal, Quebec, Canada
2020	University of California Davis MMI seminar   Davis, CA
2019	USDA NIFA grant advisory meeting   Riverside, CA

2019	International Research Conference on HLB (IRCHLB)   Riverside, CA
2019	UCR Microbiome Initiative Symposium   Riverside, CA
2016	GradSlam Finals   Riverside, CA
2015	GradSlam Semi-finals   Riverside, CA
2013	LIU Faculty Research Seminar   Brookville, NY

## PRESENTATIONS

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### Talks

2022	Genetics of Maize-Microbe interactions research network   Virtual
2020	Genetics Seminar, Univ. of Kansas   Lawrence, KS
2019	UCR Plant Pathology seminar   Riverside, CA.
2017	UCR Plant Pathology seminar   Riverside, CA
2016	UCR Plant Pathology Seminar   Riverside, CA

### Posters

2021	Nature Conferences: Harnessing the plant microbiome   Davis, CA
2019	Congress of Molecular Plant-Microbe Interactions   Glasgow, Scotland
2018	International Conference of Plant Pathology   Boston, MA
2018	Citrus Day   Riverside, CA
2017	EMBO Plant Microbiota Practical Course   Cologne, Germany
2017	Citrus Day   Riverside, CA
2016	Phytobiomes: From Microbes to Plant Ecosystems   Santa Fe, NM
2016	American Phytopathological Society Annual Meeting   Tampa, FL
2015	American Phytopathological Society Annual Meeting   Pasadena, CA
2015	Phytobiomes: New Paradigm for Crop Improvement   Washington, DC
2013	National Meeting of Ichthyologists and Herpetologists   Albuquerque, NM
2013	William Paterson University Scientific Research Symposium   Wayne, NJ
2013	Long Island University Research Symposium   Brookville, NY

## TEACHING & MENTORING

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### Workshops:

2024 (Fall)	<b>Co-Chair and presenter</b> , Kickstart workshop: introduction to microbiome data analysis (5-days), Penn State University
2023 (Fall)	<b>Co-Chair and presenter</b> , Kickstart workshop: introduction to microbiome data analysis (3-days), Penn State University

### Seminar Organizer:

2025 (Spring)	Microbiome Center Seminar Series (MBIOM 550), Penn State University
2024 (Fall)	Microbiome Center Seminar Series (MBIOM 550), Penn State University
2024 (Spring)	Microbiome Center Seminar Series (MBIOM 550), Penn State University
2023 (Fall)	Microbiome Center Seminar Series (MBIOM 550), Penn State University
2023 (Spring)	Microbiome Center Seminar Series (MBIOM 550), Penn State University

### Teaching assistant

2016	Introduction to Microbiology Laboratory (MCBL121L), UC Riverside <ul style="list-style-type: none"> <li>• <i>Received an Outstanding Teaching Assistant Award from the Graduate Division</i></li> </ul>
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Guest lectures

- 2024 Advances in Ecology (ECLGY 515; Graduate Level), Penn State University  
 2024 Current events in Biotechnology (MCIBD 571; Graduate Level), Penn State University  
 2024 Environmental Microbiology (SOILS 512; Graduate level), Penn State University  
 2023 Current events in Biotechnology (MCIBD 571; Graduate Level), Penn State University  
 2022 Introduction to Honors Research (BIOL 499; Undergraduate level), Univ. of Kansas  
 2018 Plant Virology and Bacteriology (PLPA 203; Graduate level), UC Riverside  
 2016 Arlington High School Biology Class, Riverside, CA

Undergraduate research mentor

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| 1. Carmen Rodriguez   Univ. of Kansas                                    | 2021–2024 |
| 2. Natalie Ford   Univ. of Kansas  | 2021–2022 |
| 3. Hannah Reid (REU student)   Univ. of Kansas                           | 2021      |
| 4. Felicity Tso (transition into full-time technician)   Univ. of Kansas | 2020–2022 |
| 5. Matthew Guevara   UC Riverside  | 2019–2020 |
| 6. Rohan Subramanian   UC Riverside                                      | 2019      |
| 7. Norma Itzel De Anda   UC Riverside                                    | 2018–2020 |
| 8. Tim Smith   UC Riverside  | 2018–2020 |
| 9. Yona Mizrahi   UC Riverside   | 2017      |
| 10. Hannah Way   UC Riverside  | 2016–2019 |
| 11. Anisah Kabbara   UC Riverside  | 2016–2017 |
| 12. Chi Lok Leung   UC Riverside   | 2015–2016 |

Mentoring Programs

- 2017 **Graduate Peer Mentor**, Grad. Success/Grad. Division, UC Riverside
- Mentored incoming graduate students participating in the 3-month summer “GradEdge/Jump Start” program, which provides underrepresented STEM graduate students a “jump start” on professional/academic development.
  - Mentees:
    1. Yair Sanchez Juarez (Mechanical Engineering)
    2. Aidan Shands (Plant Pathology)
    3. Pablo Unzueta (Chemistry)
    4. Daniel White (Chemical and Environmental Engineering)
- 2015–16 **High School Mentor**, Association for Women in Science, UC Riverside
- Mentored high school students from rural areas through the Mecca Program
- 2012–13 **International Student Mentor**, Conversations Helping and Teaching Students (CHATS), Long Island University

**SPECIALIZED TRAINING**

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- 2021–22 Maize Genetics Industry Mentor Program (6 mo.), *Mentor: Chris Kafer, BASF*  
 2021 Population Genetics Discussion Group (12 weeks), University of Kansas  
 2021 Software carpentry workshop, University of Kansas  
 2020 Microbial ‘Omics Online Seminar Series (6 weeks), Univ. of Chicago

- 2018 Statistical modeling in R for Biologists, UC Riverside  
 2018 Science to Policy communications workshop, UC Riverside  
 2017 Plant Microbiota practical course, Max Planck Institute, Cologne, Germany
  - 2-week course on experimental/computational techniques. Led by Paul Schulze-Lefert, Stephane Hacquard, and Ruben Garrido-Oter. *Competitive application process, received EMBO travel grant*
 2016 PMA/EMA-qPCR for quantifying bacterial cells in hosts, Lake Alfred, FL
  - Led by Nian Wang.
 2015 Programming in R workshop, UC Riverside

## INTERNAL LEADERSHIP & SERVICE

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### Penn State University, University Park, PA

- 2023– **Curriculum committee member**, Dual Title PhD in Microbiome Sciences program  
 2023– **Exec committee member**, Dual Title PhD in Microbiome Sciences program  
 2023–24 **Co-chair**, One Health Microbiome Symposium organizing committee  
 2022– **Member**, Center for Root and Rhizosphere Biology

### University of Kansas, Lawrence, KS

- 2021–22 **Co-organizer**, Center for Genomics Symposium organizing committee

### University of California, Riverside, CA

- 2017–18 **Graduate Rep.**, Dean of Students Search Committee  
 2017–18 **Vice President of Academic Affairs**, Graduate Student Association
  - *Paid elected position*: Represented and advocated for >3,200 graduate students. Managed a team of seven academic affairs officers. Oversaw the status, funding, and activities of 56 departmental graduate student organizations, an event/conference funding program, and an outreach funding program.
 2016–19 **Co-founder & Communications Coordinator**, Outreach Committee, Plant Pathology Graduate Student Association  
 2015–18 **Graduate Rep.**, Faculty Academic Senate's Graduate Council  
 2015–17 **Conference Travel Grant Coordinator**, Graduate Student Association
  - *Paid appointed position*: Directed the conference travel grant program (budget ≈\$250,000) by organizing, reviewing, and awarding hundreds of awards to individuals.
 2015–17 **Vice Chair**, Highlander Union Board of Governors  
 2014–16 **Graduate Rep.**, Global Food Initiative, Food Security Committee  
 2014–15 **Graduate Rep.**, Faculty Academic Senate's Extension Committee  
 2014–15 **Academic Affairs Officer**, Graduate Student Association
  - *Paid appointed position*: Served as a liaison between the College of Natural and Agricultural Sciences and graduate student association.
 2014–20 **Member**, Plant Pathology Graduate Student Association



## PROFESSIONAL AFFILIATIONS & SERVICE

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### Manuscript review

International Society of Microbial Ecology (ISME) Journal; Plant Pathology Journal (x2); Phytobiomes Journal (x2); New Phytologist; Journal of Ecology; FEMS Microbiology Ecology (x2); Plant, Cell & Environment; FEMS Microbiology Letters (x2); Canadian Journal of Microbiology (x2).

### Grant review

2019 American Phytopathological Society travel grants (5 applications)

### Moderator

2022 IS-MPMI Early career showcase (2-day virtual event)

### Membership

2024– **Controlled Environment Agriculture Working Group member**, International Phytobiomes Alliance

2024– **Plant Microbiome Working Group member**, International Phytobiomes Alliance

2024– **Animal Microbiome Working Group member**, International Phytobiomes Alliance

2023– **Coordinating Committee member**, International Phytobiomes Alliance

2023– **Member**, American Society of Microbiology (ASM)

2023– **Member**, One Health Task Force, Commonwealth of Pennsylvania

2020– **Member**, Genetics of Maize-Microbe interactions research network

2020– **Member**, International Society of Microbial Ecology (ISME)

2019– **Member**, International Society for Molecular Plant-Microbe Interactions

2017–20 **Member**, UC Riverside Microbiome Initiative

2015– **Member**, American Phytopathological Society (APS)

- *Participated on Graduate student committee, Bacteriology committee, and Early career professionals committee.*

## OUTREACH & COMMUNITY SERVICE

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2024 **Panelist**, National Institute of Antimicrobial Resistance Research & Education (NIAMRRE) meeting, Virtual

2024 **Panelist**, Antimicrobial Resistance Awareness Day, State College, PA

2023 **Panelist**, AEPS515 course: Academic Career Panel, State College, PA

2023 **Exhibitor**, American Society of Microbiology Microbe Conference, Houston, TX

2023 **Guest Speaker**, Professional Development lunch, Penn State Microbes for Microbes Grad Student Organization, State College, PA

2023 **Moderator/Host**, Microbiome Expert Panel, The State Theatre, State College, PA

2022 **Scientific Poster Judge**, KU Molecular Biosciences Symposium, Lawrence, KS

2022 **Scientific Poster Judge**, KU Genomics Symposium, Lawrence, KS

2022 **Panelist**, Postdoc advice panel, MEE conference, Lawrence, KS

2021 **Guest Host**, Microbigals Podcast, "Do Plants have a Microbiome?"

2021, 2022 **Host**, Meet a Scientist, 6th graders, SC Central School, Sandy Creek, NY

- 2018 **Organizer & Presenter**, Plant Pathology Day
  - 100 High School Students invited to campus for a full day event about STEM careers and Plant Pathology. Organized and presented section on plant microbiomes.
- 2018 **Panelist**, STEM graduate student panel for high schoolers, UC Riverside
- 2016 **Co-organizer**, The Riverside Amazing College Race, Riverside, CA
  - Scholarship competition and higher education promotional event.
- 2016 **Volunteer**, STEM Sisters, middle school outreach program, UC Riverside
- 2014–17 **City Ambassador**, Riverside Mayor’s College Forum, Riverside, CA
  - Collaborated with student leaders from all four regional colleges and the Mayor’s office to improve relations between students and the city.

### **SEMI-TECHNICAL PUBLICATIONS & OTHER SCIENTIFIC COMMUNICATIONS**

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1. **Ginnan NA.** (2024). One Health Microbiome Center launches new video series. Penn State News.
2. **Ginnan NA.** (2024). Microbiome Kickstart Workshop will assist newcomers to the field. Penn State News.
3. **Ginnan NA.** (2023). New USDA grant to support graduate reproductive microbiome training program. Penn State News.
4. **Ginnan NA.** (2023). One Health Microbiome Center honors creativity and mentoring with award series. Penn State News.
5. **Ginnan NA.** (2023). One Health Microbiome Center’s 2023-24 Interdisciplinary Innovation Fellows. Penn State News.
6. **Ginnan NA.** (2023). Penn State’s renamed One Health Microbiome Center affirms broad expertise. Penn State News.
7. Lovelace A, Read A, **Ginnan NA**, Cox K. (2023). The 2022 Early Career Showcase: A Model for Future Virtual Symposiums. International Society for Molecular Plant-Microbe Interactions - *Interactions*.
8. **Ginnan NA.** (2023). Habitat split may impact disease risk in amphibians and other vertebrates. Penn State News.
9. **Ginnan NA** and Bordenstein S. (2023). Free film and panel discussion reveals 'invisible' crisis of the microbial world. Penn State News.
10. **Ginnan NA.** (2022-23). Diverse Trainee features. One Health Microbiome Center webpage.
  - a. Luana Bresciani - April 25, 2023
  - b. Mallorie Smith - April 11, 2023
  - c. Josue Ceron - March 28, 2023

- d. Victoria Pearce - March 14, 2023
  - e. Tarik Acevedo - February 22, 2023
  - f. Erica Ryu - January 31, 2023
  - g. Jenn Harris - January 17, 2023
  - h. Terry Torres-Cruz - December 13, 2022
  - i. Sterling Wright - December 6, 2022
  - j. Colin Howe - November 29, 2022
  - k. Taejung Chung - November 22, 2022
11. **Ginnan NA.** (2022). 2022 Top 10 Most Popular Microbiome Center News Articles. Penn State Huck Institutes of the Life Sciences eNews.
12. Rolshausen P, Dang T, Bodaghi S, **Ginnan NA**, Ruegger P, Peacock B, Roper MC, Borneman J, McCollum G, Vidalakis G, England GK. (2018). Correlating citrus tree health with microbes. *Citrograph.* 9:4, 52-56.