Nichole A. Ginnan, Ph.D.

Curriculum vitae

3487 Boyce Hall, 900 University Ave, Riverside, CA 92512
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EDUCATION

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 Staijch, 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:* Ecology

EXPERIENCE

Assistant Project Scientist | July 2025 - *current*
Granted Principal Investigator (PI) status & Advised by Dr. Caroline Roper
Department of Microbiology and Plant Pathology
University of California, Riverside, CA

Research Plant Pathologist (GS-13) | offer made in December 2024
Agricultural Research Services | Hired to start and lead plant–microbiome interactions lab
United States Department of Agriculture, Salinas, CA
Accepted offer, but the position was cancelled due to government hiring freeze and workforce reduction implemented by the Trump administration in January 2025

Adjunct Researcher | November 2022 - June 2025
Advised by Dr. Maggie Wagner
Department of Ecology and Evolutionary Biology
University of Kansas, Lawrence, KS

Research Project Manager II | November 2022–May 2025
One Health Microbiome Center, Huck Institutes of the Life Sciences
Pennsylvania State University, University Park, PA

Postdoctoral Scholar | September 2020 - October 2022
Advised by Dr. Maggie Wagner
Department of Ecology and Evolutionary Biology
University of Kansas, Lawrence, KS

Interim Postdoctoral Scholar | July 2020 - September 2020
Advised by Dr. Caroline Roper

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

Graduate Student Researcher | September 2014 - June 2020
Advised by Dr. Caroline Roper
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

University of California President's Dissertation Year Fellowship | August 2019 - June 2020
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.

National Science Foundation Graduate Research Fellowship | July 2016 - June 2019
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.

Dean's Distinguished Fellowship | August 2014 - June 2016
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.

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

19. **Ginnan NA#,** Rodriguez C, Sanderson B, Tso F, Ford N, Kleiner M, Wagner MR#**.** Wild *Luteibacter* populations exhibit climate-associated divergence and distinct genomic strategies for osmotic stress tolerance. *Submitting to ISME. (2026 Pre-print: https://doi.org/10.64898/2026.09.27.754828).*

18. Garrell A*, **Ginnan NA*,** Swift J*, Pal G, Zervas A, Tang C, Tso F, Ford NE, Pestalozzi C, Niu B, Castrillo G, Schläppi K, Hahnke R, Wagner MR#, Kleiner M#. ZeaMiC: a Publicly Available Culture Collection of Maize Root-Associated Bacteria. *Under revisions at Nature Communications. (2026 Pre-print: https://doi.org/10.64898/2026.03.23.713778)*

17. **Ginnan NA**, Jones R, Wu-Woods J, Pervaiz T, El-Kereamy A, Ashworth V, Hamid MI, Dawson EK, Strauss S, Stajich J, Rolshausen P#, Roper MC.# (2026). Orchard management alters citrus root and rhizosphere microbiomes with functional consequences for plant performance. *ISME Communications*. https://doi.org/10.1093/ismeco/ycag248

16. **Ginnan NA***, Custódio V*, Gopaulchan D*, Ford N, Salas-González I, Jones D, Wells D, Moreno Â, Castrillo G#, Wagner MR#. (2025). Persistent legacy effects on soil microbiota facilitate adaptive drought responses in plants. *Nature Microbiology*. https://doi.org/10.1038/s41564-025-02148-8
    - *Featured in KU News article; picked up by 28 news outlets: https://news.ku.edu/news/article/new-study-explores-legacy-effects-of-soil-microbes-on-plants-across-kansas*

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*. 0:e03147-24. https://doi.org/10.1128/mbio.03147-24
    - *Featured on Matters Microbial Podcast: https://www.microbe.tv/mm/mm-094/*
    - *Featured in Penn State News article: https://www.psu.edu/news/eberly-college-science/story/qa-unifying-microbiome-sciences-global-health-and-sustainability*

14. **The Holobiont Biology Network [***Bordenstein SR#, Gilbert TP, **Ginnan NA**, Malacrinò 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.
    - *Featured in Penn State News article: https://www.huck.psu.edu/institutes-and-centers/microbiome-center/news/penn-state-researchers-propose-a-path-to-authenticate-the-microbiome-sciences*

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*
        - *https://citrusindustry.net/2021/01/13/hlb-the-microbiomes-role/*

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.

MANUSCRIPTS IN PREPARATION (* equal contribution; # corresponding author)

- **Ginnan NA***, Kural C*, Custódio V, Jones DH, Wells DM, Castrillo G, Wagner MR#. Contrasting structural and physiological strategies underlie water responses in maize and its wild relatives. *In preparation. Target: New Phytologist*

- **Ginnan NA**, McCollum G, Roper MC#. Early citrus transcriptional response to *Candidatus* Liberibacter asiaticus transmission via Asian Citrus Psyllid. *Target: Molecular Plant-Microbe Interactions*

- De Anda NI, **Ginnan NA**, Roper MC#. Microbial competition for iron governs plant microbiome assembly. *In preparation. Target: Nature Microbiology*

AWARDS & SMALL GRANTS

2024	Staff Excellence Award, University Staff Advisory Council, Penn State Univ. **($500)**
	● *For embodying the University Values of integrity, respect, responsibility, discovery, excellence, and community.*
2020	Charles W. Coggins, Jr. Endowed Scholarship, UC Riverside **($10,000)**
	● *For research excellence and benefit to the agricultural industry.*
2019	Peter/Pamela Tsao Graduate Student Scholarship, UC Riverside **($1,000)**
	● *For excellence in soil-borne disease research.*
2019	Earle C. Anthony Travel Grant, UC Riverside **($1,500)**
2019	Edmond C. Calavan Memorial Scholarship Award **($1,000)**
	● *For research excellence in the field of plant pathology.*
2018	Charles W. Coggins, Jr. Endowed Scholarship, UC Riverside **($4,642)**
	● *For research excellence and benefit to the agricultural industry.*
2018	Am. Phytopathological Society Moller Student Travel Award **($500)**
2018	Am. Phytopathological Society Mathre Education Endowment **($1,000)**
2017	European Molecular Biology Organization Travel Grant **(450 €)**
2016	Noble Foundation Best Poster Award, APS annual meeting **($250)**
2016	Audience Choice Award - Best Talk, UC Riverside GradSlam **($2,000)**
2015	Am. Phytopathological Soc. Don/Judy Mathre Educational Award **($500)**
2015–19	Graduate Student Assoc. Travel Grant, UC Riverside **($300–$600 yearly)**
2015–19	Klotz Memorial Travel Award, UC Riverside **($500–750 yearly)**
2013	Frontier Award in Scientific Research, Long Island University

GRANTS: AWARDED

1. ***Title:*** *T32: Biotechnological and Integrative Opportunities in Microbiome Sciences (BIOMS)*
   Project Number*:* 1T32GM156692-01
   Funding agency: U.S. National Institutes of Health (NIH), NIGMS
   Amount requested*:* $2,956,485
   Amount funded*:* $3,167,485 *(NIH awarded four additional student slots for year 1)*
   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

Date awarded: June 2025 (*I forfeited my role as co-Director of the program when I left Penn State University in May 2025)*

2. ***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 requested*:* $12,000
   Amount funded*:* $9,000
   Role: Principal Investigator (PI)
   Others involved: Maggie Wagner (co-PI)
   Date submitted: October 2021
   Date awarded: December 2021

OTHER GRANT WRITING EXPERIENCE (Not awarded)

1. ***Title:*** Unraveling soil legacy and host genotype effects on carrot rhizosphere microbiota function and nematode suppression
   Funding agency: United State Department of Agriculture (USDA), NIFA/AFRI
   Amount requested*:* $793,109
   Role: Program Director/Principal Investigator (PD/PI)
   Others involved: Caroline Roper (co-PI), Bao Lam Huynh (co-I), Phil Simon (Senior Personnel)
   Date submitted: October 2025 *(Notified in September 2026 - not selected for funding)*

2. ***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)*
   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
   Unfortunately, this NSF Program was archived after the submission date due to renewed government priorities set by the Trump administration. Notified that the proposal would not be reviewed in June 2025.

INVITED TALKS

2026	University of Warwick, School of Life Science Seminar | Coventry, United Kingdom
2026	Colorado State University, Biology Seminar | Fort Collins, CO
2026	University of Texas, Molecular Biosciences Seminar | Austin, TX
2026	33rd Plant and Animal Genome Conference | San Diego, CA
2025	UC Riverside Center for Plant Cell Biology Symposium | Riverside, CA
2025	UC Riverside, Plant Pathology Seminar | Riverside, CA
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 International Research Conference on HLB (IRCHLB) | Riverside, CA
2019 UCR Microbiome Initiative Symposium | Riverside, CA

OTHER PRESENTATIONS

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.
2019 USDA NIFA grant advisory meeting | Riverside, CA
2017 UCR Plant Pathology seminar | Riverside, CA
2016 UCR Plant Pathology Seminar | Riverside, CA
2016 GradSlam Finals | Riverside, CA
2015 GradSlam Semi-finals | Riverside, CA
2013 LIU Faculty Research Seminar | Brookville, NY

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

Workshops:

2024 (Fall) **Co-Chair and presenter**, Kickstart workshop: introduction to microbiome data analysis (5-days), Penn State University
2023 (Fall) **Co-Chair and presenter,** 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
- *Received an Outstanding Teaching Assistant Award from the Graduate Division*

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

- Carmen Rodriguez | Univ. of Kansas 2021–2025
- Natalie Ford | Univ. of Kansas 2021–2022
- Hannah Reid (REU student) | Univ. of Kansas 2021
- Felicity Tso (transition into full-time technician) | Univ. of Kansas 2020–2022
- Matthew Guevara | UC Riverside 2019–2020
- Rohan Subramanian | UC Riverside 2019
- Norma Itzel De Anda | UC Riverside 2018–2020
- Tim Smith | UC Riverside 2018–2020
- Yona Mizrahi | UC Riverside 2017
- Hannah Way | UC Riverside 2016–2019
- Anisah Kabbara | UC Riverside 2016–2017
- Chi Lok Leung | UC Riverside 2015–2016

Formal 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 is 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

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
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

Penn State University, University Park, PA
2023–25 **Curriculum committee member**, Dual Title PhD in Microbiome Sciences program
2023–25 **Exec committee member**, Dual Title PhD in Microbiome Sciences program
2023–24 **Co-chair**, One Health Microbiome Symposium organizing committee
2022–25 **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

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); Global Change Biology; ISME Communications; Phytopathology; Plant and Soil; Nature Communications.

Grant and abstract review
2026 Phytobiomes conference presentation abstracts (18 abstracts)
2019 American Phytopathological Society travel grants (5 applications)

Moderator or Organizer
2026 **Moderator**, Research Webinar, International Phytobiomes Alliance
2026 **Organizing committee member**, International Phytobiomes Conference
2022 **Moderator**, IS-MPMI Early career showcase (2-day virtual event)

Membership
2023– **Plant Microbiome Working Group member**, International Phytobiomes Alliance
2023– **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– **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

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

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 Research 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.