Curriculum vitae of

Geoffrey L. Zahn, Ph.D.

Last updated: June, 2023

https://geoffreyzahn.faculty.uvu.edu/

Biology Department Utah Valley University 800 W University Parkway - SB243c Orem, UT, 84058, USA

zahn.geoff@gmail.com

PROFESSIONAL APPOINTMENTS

2023 - Current Associate Professor

Utah Valley University - Biology Department

2017 - 2023 Assistant Professor

Utah Valley University - Biology Department

2020 - Current Private Consulting

Data Analytics & Forensic Bioinformatics

2018 - 2021 Director of Environmental Biology

GeoDataCrawler Research Institute

2015 - 2017 Postdoctoral Research Associate

University of Hawaii at Manoa - Department of Botany

EDUCATION

2015 PhD in Biology – Microbial and Molecular Ecology

University of Arkansas, Fayetteville, AR, USA

2010 Bachelor of Science in Biology – Ecology, Evolution and Systematics

Missouri State University, Springfield, MO, USA

RESEARCH FOCI:

Host-associated microbial community assembly Microbe-climate feedback mechanisms

PUBLICATIONS

(* denotes authors who contributed equally to a paper; † denotes student mentee authors)

Rawson, C.[†], & Zahn, G. (2023). Inclusion of database outgroups reduces false positives in fungal metabarcoding taxonomic assignments. *Mycologia*. https://doi.org/10.1080/00275514.2023.2206931

Wainwright, B. J., Millar, T.[†], Bowen, L.[†], Semon, L.[†], Hickman, K. J. E.[†], Lee, J. N., Yeo, Z. Y., & Zahn, G. (2023). The core mangrove microbiome reveals shared taxa potentially involved in nutrient cycling and promoting host survival. *Environmental Microbiome*, 18(1), 47. https://doi.org/10.1186/s40793-023-00499-5

Leho Tedersoo, Vladimir Mikryukov, Alexander Zizka, Mohammad Bahram, Niloufar Hagh-Doust, Sten Anslan, Oleh Prylutskyi, Manuel Delgado-Baquerizo, Fernando T. Maestre, Jaan Pärn ... **Geoffrey Zahn** ... Kessy Abarenkov. (2022). Global patterns in endemicity and vulnerability of soil fungi. *Global Change Biology*, https://doi.org/10.1111/qcb.16398

McGee, S., Tidwell, A.[†], Riggs, E., Veltkamp, H.[†], & **Zahn, G.** (2022). Long-term soil fungal community recovery after fire is impacted by climate change. *Western North American Naturalist*, 82(3). https://scholarsarchive.byu.edu/wnan/vol82/iss3/3

Zahn, G. (2022). Marker Genes (16S and ITS) Protocol for Plant Microbiome Analyses. BIO-PROTOCOL, 12(8). https://doi.org/10.21769/BioProtoc.4395

Wilson, T., Poulson, A., Packer, C., Carlson, R., Davis, R., Dey, M.[†], Owen, N.[†], Smalley, S.[†], Dodge, R.[†], **Zahn, G.**, Baadsgaard, A., & Stevens, M. (2021). Essential oil, insect, and microbe relationships in *Juniperus osteosperma* (Cupressaceae) trees killed by wildfire. Phytologia, 103(4), 106–118.

Tedersoo, L., Mikryukov, V., Anslan, ... **Zahn G.**, ... Abarenkov, K. (2021). The Global Soil Mycobiome consortium dataset for boosting fungal diversity research. *Fungal Diversity*. https://doi.org/10.1007/s13225-021-00493-7 (31/95 authors)

- Quek, Z. B. R., **Zahn, G.**, Lee, N. L. Y., Ooi, J. L. S., Lee, J. N., Huang, D., & Wainwright, B. J. (2021). Biogeographic structure of fungal communities in seagrass Halophilia ovalis across the Malay Peninsula. *Environmental Microbiology Reports*. https://doi.org/10.1111/1758-2229.13003
- Sur, G. L., **Zahn, G.**, & Stacy, E. A. (2021). Examination of host-taxon, environment, and distance effects on leaf fungal endophytes in the dominant woody genus, Metrosideros, on Oʻahu. *Fungal Ecology*, 53, 101093. https://doi.org/10.1016/j.funeco.2021.101093
- Egan, C. P., Koko, J. H., Muir, C. D., **Zahn, G.**, Swift, S. O. I., Amend, A. S., & Hynson, N. A. (2021). Restoration of the mycobiome of the endangered Hawaiian mint Phyllostegia kaalaensis increases its resistance to a common powdery mildew. *Fungal Ecology*, 52. https://doi.org/10.1016/j.funeco.2021.101070

Tipton, L., **Zahn, G. L**., Darcy, J. L., Amend, A. S., & Hynson, N. A. (2021). Hawaiian Fungal Amplicon Sequence Variants Reveal Otherwise Hidden Biogeography. *Microbial Ecology.* https://doi.org/10.1007/s00248-021-01730-x

Benjamin J. Wainwright, **Geoffrey L. Zahn**, Lufti Afiq-Rosli, Jani Tanzil, Danwei Huang. (2020). Host age is not a consistent predictor of microbial diversity in the coral *Porites lutea*. *Scientific Reports*. https://doi.org/10.1038/s41598-020-71117-4

Darcy J L, Swift S, Cobian G M, **Zahn G**, Perry B A, Amend A. (2020). Fungal communities living within leaves of native Hawaiian dicots are structured by landscape-scale variables as well as by plant hosts. *Molecular Ecology*. https://doi.org/10.1111/mec.15544

Laura Tipton*, **Geoffrey Zahn***, Anthony Amend, Patrick Sheridan, Erin Datlof[†], Nicole Hynson. (2020) Just passing through: neither time nor environment affect fungal aerobiota over a 13-year time series at the Mauna Loa Observatory. *PNAS*. https://doi.org/10.1073/pnas.1907414116

Benjamin J. Wainwright, **Geoffrey L. Zahn**, Joshua Zushi[†], Nicole Li Ying Lee, Jillian Lean Sim Ooi, Jen Nie Lee, Danwei Huang. (2019). Seagrass-associated fungal communities show distance decay of similarity that has implications for seagrass management and restoration. *Ecology and Evolution*. https://doi.org/10.1002/ece3.5631

Wainwright, B. J., Bauman, A. G., **Zahn, G. L.**, Todd, P. A., & Huang, D. (2019). Characterization of fungal biodiversity and communities associated with the reef macroalga Sargassum ilicifolium reveals fungal community differentiation according to geographic locality and algal structure. *Marine Biodiversity*. https://doi.org/10.1007/s12526-019-00992-6

Benjamin J. Wainwright, Lutfi Afiq-Rosli, **Geoffrey Zahn**, Danwei Huang. (2019). Characterisation of coral-associated bacterial communities in an urbanised marine environment shows strong divergence over small geographic scales. *Coral Reefs*, 1-10. https://doi.org/10.1007/s00338-019-01837-1

Geoffrey Zahn, Anthony Amend. (2019). Foliar fungi alter reproductive timing and allocation in Arabidopsis under normal and water-stressed conditions. *Fungal Ecology*, *41*, 101–106. https://doi.org/10.1016/j.funeco.2019.04.002

Wainwright BJ., **Zahn GL.**, Arlyza IS., Amend AS. (2018). Seagrass-associated fungal communities follow Wallace's line, but host genotype does not structure fungal community. *Journal of Biogeography*. https://doi.org/10.1111/jbi.13168.

Datlof, E. M., Amend, A. S., Earl, K., Hayward, J., Morden, C. W., Wade, R., **Zahn, GL**, Hynson, N. A.. (2017). Uncovering unseen fungal diversity from plant DNA banks. *PeerJ*, 5, e3730. https://doi.org/10.7717/peerj.3730

Geoffrey Zahn, Anthony S Amend. (2017). Foliar microbiome transplants confer disease resistance in a critically-endangered plant. *PeerJ* **5**: e4020. https://doi.org/10.7717/peerj.4020

Wainwright BJ., **Zahn GL**., Spalding HL., Sherwood AR., Smith CM., Amend AS. (2017). Fungi associated with mesophotic macroalgae from the 'Au'au Channel, west Maui are differentiated by host and overlap terrestrial communities. *PeerJ* 5:e3532. https://doi.org/10.7717/peerj.3532

Geoffrey Zahn, Rota Wagai, Seiichiro Yonemura. (2016). The effects of amoebal bacterivory on carbon and nitrogen dynamics depend on temperature and soil structure interactions. *Soil Biology and Biochemistry*, 94: 133-137. http://10.1016/j.soilbio.2015.11.021

Geoffrey Zahn, Steven L. Stephenson, Frederick W. Spiegel. (2014). Ecological distribution of protosteloid amoebae in New Zealand. *PeerJ* 2:e296. https://doi.org/10.7717/peerj.296

Miriam De Haan, Christine Cocquyt, Alex Tice, **Geoffrey Zahn**, Frederick W. Spiegel. (2014). First records of Protosteloid Amoebae (Eumycetozoa) from the Democratic Republic of the Congo. *Plant Ecology and Evolution*, 147:1, 85-92. https://doi.org/10.5091/plecevo.2014.883

Erin R. Murphy, Jacob Boxberger, Robert Colvin, Suk Je Lee, **Geoffrey Zahn**, Fred Loor, Kyoungtae Kim. (2011). Pil1, an eisosome organizer, plays an important role in the recruitment of synaptojanins and amphiphysins to facilitate receptor-mediated endocytosis in yeast. *European Journal of Cell Biology*, 90:10, 825-833. https://doi.org/10.1016/j.ejcb.2011.06.006

Pre-prints None pending publication

TECHNICAL REPORTS

Geoffrey Zahn and Tyler Hacking. 2019. Development of non-detrimental methods to survey fungal endophytes in endangered cacti. Capitol Reef National Park Field Station Report.

Geoffrey Zahn, Anthony Amend. 2017. Role of fungal endophytes and epiphytes in endangered species conservation. O'ahu Army Natural Resources Program Year-End Report

Geoffrey Zahn, Anthony Amend. 2016. Molecular assessment of wild Achatinella mustelina diet. O'ahu Army Natural Resources Program Year-End Report

Geoffrey Zahn, Anthony Amend. 2015. Molecular assessment of wild Achatinella mustelina diet. O'ahu Army Natural Resources Program Year-End Report

CODE CONTRIBUTIONS AND TUTORIALS

Method for creating QIIME-compatible taxonomic databases from any subset of NCBI data. https://doi.org/10.5281/zenodo.3688556

R for exploratory data analysis course https://gzahn.github.io/data-course/

Collection of custom bioinformatics tools https://github.com/gzahn/tools

Bioinformatics Data Skills course https://gzahn.github.io/binf-data-skills/

gradient in the Great Salt Lake"

AWARDS AND FUNDING (Total: \$1,182,738)

2022	College of Science Dean's Award of Excellence for Scholarship – Utah Valley University
2020	College of Science Dean's Award of Excellence for Scholarship – Utah Valley University (\$2,750)
2019	Presidential Fellowship for Faculty Scholarship – Utah Valley University (\$8,000) PI: "Soil microbial predation in a changing climate"
2018	NSF (DUE – 1833880) (\$972,287) PI: "Faculty-Mentored Experiences for Improving Undergraduate Biology Student Outcomes"
2018	SEED Grant for Engaged Learning (\$9,597) – Utah Valley University PI: "Engaging undergraduates in advanced research – Year two"
2018	Capitol Reef National Park Field Station Grant (\$2,550) PI: "Development of non-detrimental methods to survey fungal endophytes in endangered cacti"
2018	GREEN Grant (\$29,327) – Utah Valley University Co-PI: "Assessing the Implementation of Undergraduate Research Teams at an Open Enrollment Institution"
2018	SEED Grant for Engaged Learning (\$9,650) – Utah Valley University PI: "Engaging undergraduates in advanced research: The functional roles of halophilic fungi along a salinity

2016	Mycological Society of America	Translational Mycology Postdoctoral Award (\$2,500)
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"Plant conservation from a microbial perspective"

2015 Oahu Army Natural Resources Program – Rare Plant Management (\$40,500)

Co-Investigator and Writer - "Restoration of critically endangered Hawaiian native plants by understanding and

manipulating foliar microbial symbionts"

2014 Japan Society for the Promotion of Science (JSPS) Alumnus Travel Award (\$750)

Presentation: "Harnessing eukaryotic microbes in agricultural soils for reduced carbon turnover"

2014 Dept. of Energy Joint Genome Institute IMG Workshop Travel Award (\$425)

2013 JSPS Summer Research Fellowship (JSPS-SP01363) (\$12,500)

Co-P.I. - "The Importance of Microbial Interactions to Soil Carbon Cycling on a Warming Planet"

2013 NSF EAPSI Grant (OISE-1308856) (\$5,070)

P.I. - "The Importance of Microbial Interactions to Soil Carbon Cycling on a Warming Planet"

2013 Clean Air – Cool Planet Climate Fellowship (\$5,000)

Fellowship: "Assessing the status of USDA Green Ribbon Schools nationally"

2011 Mycological Society of America Travel Award (\$350)

2011 NSF GK-12 Fellowship (**\$30,500**)

Fellowship: "Inquiry and Innovative Thinking by Design"

STUDENT MENTEE FUNDING

2023	Scholarly Activities	Committee (SAC)	Grant awarded to	Austen Miller	(\$3.769)
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Characterizing a potentially new fungal pathogen of basil

2023 Scholarly Activities Committee (SAC) Grant awarded to Ozzly Rallis (\$1,919)

Effects of nicotine-based pesticides on fungal foliar endophytes

2023 Scholarly Activities Committee (SAC) Grant awarded to Hayden Johnson (\$1,440)

Foliar endophytes' influence on root architecture

2023 Scholarly Activities Committee (SAC) Grant awarded to Whitney Kraatz (\$518)

Developing a scalable protocol for recycling paper waste with edible mushrooms

2022 Board of Trustees Research Scholarship Award to advisee Magnolia Morelli (\$6,000)

Sequencing the genome of a newly described Gymnopus species

2022 Scholarly Activities Committee (SAC) Grant awarded to Nichole Paulette (\$769)

Effects of Ethanol Vapor on the Germination of Baudoinia compniacensis

2022 Scholarly Activities Committee (SAC) Grant awarded to Lauren Groathouse (\$602)

Exploring the relationship between arthropod and plant endophyte microbiota

2022 Scholarly Activities Committee (SAC) Grant awarded to Zachary Petersen (\$728)

Predation of Pathogenic Staphylococcus sp. by Slime Molds

2022 Scholarly Activities Committee (SAC) Grant awarded to Nicholas Fryer (\$888)

UVU's GRIT Garden Underground Fungal Map

2022 Scholarly Activities Committee (SAC) Grant awarded to Samuel Anaya (\$991)

Evolutionary recovery of alcohol tolerance in yeast

2022 Scholarly Activities Committee (SAC) Grant awarded to Brittany Bugg (\$256)

Order of arrival and community assembly in wood decomposers

2022 Scholarly Activities Committee (SAC) Grant awarded to Miles Spencer (\$958)

Mammal dispersal of fungi in urban areas

2021 Undergraduate Research Grant (URSCA) awarded to advisee Magnolia Morelli (\$1,944)

Primate Mycophagy in the Tropics

2021	Scholarly Activities Committee (SAC) Grant awarded to Rollo Simmons (\$375) Survey of aquatic fungi in Utah Lake
2021	Scholarly Activities Committee (SAC) Grant awarded to Branden Petersen (\$906) MRSA antagonism in fungal species across Utah County
2020	Undergraduate Research Grant (URSCA) awarded to advisees Reagan Dodge and Natalia Backman (\$2,900) Converting cellulose waste into gourmet edible mushrooms
2020	Scholarly Activities Committee (SAC) Grant awarded to Sarah van Dijk (\$1,833) PI: "Determining the effect of different pathogens on <i>Arabidopsis thaliana</i> root architecture"
2020	Scholarly Activities Committee (SAC) Grant awarded to Logan Wesemann (\$439) PI: "Limiting ice nucleation from <i>P. syringae</i> using biocontrol"
2020	Scholarly Activities Committee (SAC) Grant awarded to Erika Lakin (\$1,440) PI: "Fungal endophytes and the hybrid advantage in crucifers"
2019	Undergraduate Research Grant (URSCA) awarded to advisee Connor Glassford (\$743) PI: "Novel antimicrobials from extremophilic fungi"
2019	Undergraduate Research Grant (URSCA) awarded to advisee Clayton Rawson (\$1,460) PI: "Survey of extremophilic fungi in Utah"
2019	Undergraduate Research Grant (URSCA) awarded to advisee McKenzie Bell (\$954) PI: "Fungal bioremediation of microplastics"
2019	Undergraduate Research Grant (URSCA) awarded to advisee Katia L'Ecuyer (\$854) Pl: "Produce aisle endophytes"
2019	Board of Trustees Research Scholarship Award to advisee Jonathan Wasden (\$6,000) PI: "Forest fires and soil fungal recovery"
2019	Undergraduate Research Grant (URSCA) awarded to advisee Jonathan Wasden (\$1,987) PI: "Forest fires and endophytes"
2019	Undergraduate Research Grant (URSCA) awarded to advisees Natiri Swenson (\$840) PI: "Pathogenic nematode density under various orchard management strategies"
2018	Undergraduate Research Grant (URSCA) awarded to advisees Alyssa Tidwell and Jenni Lawrence (\$2,970) PI: "Fungal and bacterial community structure during wetland recovery"
2018	Undergraduate Research Grant (URSCA) awarded to advisees Spencer McGee (\$1,740) PI: "Soil microbial responses after the Pole Creek Fire in Utah"
2018	Undergraduate Research Grant (URSCA) awarded to advisee Garrett Matthews (\$978) PI: "Examining the roles of endophytes in leaf decomposition"
2018	Undergraduate Research Grant (URSCA) awarded to advisees Bryce Brunetti and Jordan Bayly (\$833) PI: "Underwater heroes: finding a chytrid antagonist"
2018	Undergraduate Research Grant (URSCA) awarded to advisees Nicholas Long and Harrison Haws (\$3,000) PI: "Lifestyle determinants of the human oral mycobiome"
2018	Undergraduate Research Grant (URSCA) awarded to advisees Alyssa Tidwell and Spencer McGee (\$3,000) PI: "Community assembly of soil fungi within a fire chronosequence"
2018	Undergraduate Research Grant (URSCA) awarded to advisee Bryce Brunetti (\$350) PI: "Construction of a mock fungal community for high-throughput amplicon research"

PRESENTATIONS

Invited Seminars:

2022 "Less content, more context: Research as pedagogy in undergraduate mycology courses" Mycological Society of America, Gainesville, FL, USA

2019	"Who's there and who cares: the how and why of fungal community structure" Brigham Young University, UT, USA	
2018	"The causes and consequences of fungal community structure" University of Arkansas, AR, USA	
2018	"The causes and consequences of fungal community structure" Missouri State University, USA	
2016	"Picky Eaters: Prey choice by soil protists is altered by temperature and soil structure" Cornell University, Ithaca, NY, USA	
2015	"Effects of belowground trophic complexity on carbon cycling under changing climatic and edaphic conditions" Joint Genome Institute, Walnut Creek, CA, USA	
2015	"The functional and distributional ecology of mycetozoans under changing edaphic and climatic dynamics" Climate Impact Research Center, Abisko, Sweden	
2014	"Public science literacy and targeted environmental initiatives" NWA Environmental Programs Symposium	
2014	"The functional and distributional ecology of slime molds in a changing climate" NIAES, Tsukuba, Japan	
2013	"The Ecology of Soil Mycetozoa" Japan Agency for Marine-Earth Science and Technology, Yokosuka, Japan	
2012	"The Mycetozoans" Organization for Tropical Studies, Las Cruces, Costa Rica	
	Posters and Talks:	
2022	Inspecting the microbiome and metabolomic compartments of Mediterranean sponge holobionts through an integrated 'omics approach. International Sponge Symposium, Leiden, Netherlands	
2016	"Fungal endophytes and pathogens in endangered hawaiian endemics: Plant conservation from a microbial perspective" Mycological Society of America, Berkeley, CA, USA	
2014	"Amoebae in warming soils: interactive effects of the microbial food web and environmental factors on nutrient cycling in a changing climate" A2C Research Symposium, Fayetteville, AR, USA	
2014	"The interactive effects of protozoan predation pressure and environmental factors on carbon and nitrogen cycling in soils under warming conditions" International Society for Microbial Ecology; Seoul, South Korea	
2014	"Application of high-throughput sequencing may explain carbon dynamics under predation and warming gradients via soil community shifts" JSPS Multidisciplinary Science Forum 4; Washington, D.C., USA	
2014	"Using metagenomics and metatranscriptomics to uncover mechanisms of soil communities' effects on carbon cycling under warming conditions" DOE Joint Genome Institute – Microbial Genomics and Metagenomics Workshop; Walnut Creek, CA, USA	
2013	"The Role of Soil Amoebae in Nutrient Cycling on a Warming Planet" Graduate University for Advanced Studies; Sokendai, Japan	
2011	"The Protosteloid Amoebae of New Zealand" Mycological Society of America; Fairbanks, AK, USA	
2010	"Pil1's Role on Regulating Membrane PIP2 Level" INBRE Conference; Fayetteville, AR, USA	
2010	"The Effects of Prescribed Fire on Overwintering Fungal Abundance and Diversity: A Baseline Study" CNAS Undergraduate Research Symposium; Springfield, MO, USA	
2009	"Endocytic Roles of Pil1, the Main Organizer of Eisosomes" Arkansas INBRE Research Conference; Fayetteville, AR, USA	
PROFESSIONAL DEVELOPMENT AND ACADEMIC SERVICE		

2023 - Current	Associate Editor for Mycologia
2021 – 2025	IUCN SSC Chytrids, Zygomycetes, Downy Mildews, Slime Moulds Specialist Group
2019	Council for Undergraduate Research workshop – Spokane, WA, USA

2019 Workshop to enhance collaboration between the US and Indonesia. Bogor, Indonesia.

http://biodiversity.ipb.ac.id/

2019 NSF Panel Reviewer

2018 – 2021 Faculty Senate – Utah Valley University

2018 – 2021 Faculty search committees for various tenure-track searches (5 searches) - UVU

2015 -- 2016 Endangered species conservation - Collaboration with US Army Environmental Division and the 'Oahu

Natural Resources Program, Hawaii

2014 – 2015 Course Development – Online Biology Lab

University of Arkansas

2013 International Research – Soil Physiology and Ecology

May - Aug. National Institute for Agro-Environmental Sciences, Tsukuba, Japan

2013 – 2016 IUCN Species Survival Commission – Myxomycete group

2012 Field Research – Tropical Lichen Ecology
Jul. – Aug. Organization for Tropical Studies, Costa Rica

2011 – 2012 National Science Foundation GK-12 Teaching Fellow

Jun. - May University of Arkansas; Owl Creek Middle School, Fayetteville, AR

2010 Undergraduate Research Assistant – Forest Fire Ecology

Jan. – Dec. Missouri State University Dept. of Biology

2009 Undergraduate Research Assistant – Yeast Genetics

Jan. – Dec. Missouri State University Dept. of Biology

MENTORING AND TEACHING EXPERIENCE

Teaching website

https://gzahn.github.io/coursemap

Mentorship

Undergraduate student mentor (42 students) Graduate Student Mentor (4 Masters, 3 PhD)

Courses

Bioinformatic Data Skills – UVU (Developed and taught)

Unix environment, data conversions, project workflows, HPC interaction

Introduction to undergraduate research – UVU (Developed and taught)

Research methods, graduate school preparation, lab rotations (1 semester)

Mycology - UVU (Developed and taught)

Integrated lecture/lab with molecular methods (1 semester)

Majors' Biology II – UVU (Developed and taught)

Large-format lecture (5 semesters)

Introduction to Data Analysis in R – UVU (Developed and taught)

Project-based BASH and R training with applied biostatistics (2 semesters)

Plant Pathology - UVU (Developed and taught)

Research-based course design (1 semester)

Online Biology Lab (Non-majors) – UArk (Developed and taught)

Developed, administered, and evaluated simulation-based labs for non-majors (1 semester)

Principles of Biology (Honors Undergraduate) – UArk Teaching Assistant

Lab for biology majors (5 semesters)

Comparative Botany (Graduate level) – UArk Teaching Assistant Lab component (1 semester) Mycology (Graduate level) – UArk Teaching Assistant Lab component (1 semester)

Experimental Design (Undergraduate) – UArk Teaching Assistant (Taught) Computer lab component (1 semester)

6th Grade Science and Math (NSF GK-12 Teaching Fellow) Developed and taught inquiry-based lessons (1 year)

ACADEMIC AND OTHER SOCIETIES (Active participant)

International Society for Microbial Ecology Mycological Society of America

MSA Educator Spotlight (https://msafungi.org/msa-educator-spotlight-geoffrey-zahn/)

International Society for Fungal Conservation

Japan Society for the Promotion of Science Alumni Association

International Union for Conservation of Nature (IUCN) - Species Survival Group (Myxomycetes)

OUTREACH & MEDIA

2019 "Excuse me... do you have a moment to talk about endophytes?" Stockman Grass Farmer Magazine

Aug. 2019. https://bit.ly/2KsYIBB

2019 Funded S-STEM proposal featured by NSF at Council of Undergraduate Research Dialogues plenary session –

Arlington, VA

2018 ScienceNews article on plant microbiomes featuring endangered plant work

https://www.sciencenews.org/article/plant-microbes-crops-food-endangered-species?tgt=nr

2018 "In plaats van spuiten, planten helpen met micro-organismen"

https://bit.ly/2leHIr4

2018 Trailside STEM Night – Park City, UT

2017 "Researchers find scores of potentially new species of fungi in deep waters off Maui"

https://bit.ly/318xKQm

2017 Judge - Windward District Science and Engineering Fair, HI

2016 Research spotlight at 2016 IUCN Congress - "Using fungi to save endangered plants"

2016 Hawaii GENE-ious K-12 Curriculum Development

2014 Ten Thousand Microscopes Beta Tester – K-12 Content Generator

2011 – 2015 Judge – NWA Regional Science Fair

2008 – 2009 James River Basin Partnership Science Committee, Springfield, MO

2007 Research Technician - Missouri State University Greenhouse

2006 Volunteer Ecologist - Reserva Bosque Nuboso Santa Elena, Costa Rica

PEER REVIEW

Reviewer for: Soil Biology and Biochemistry (Distinguished Reviewer)

PeerJ

Pedobiologia (Distinguished Reviewer)

Oikos

ISME Journal

Fungal Ecology (Distinguished Reviewer)

Molecular ecology Ecology and Evolution American Fern Journal New Phytologist Phytobiomes Evolution Environmental Microbiology