# William C. Beckerson, Ph.D. – Curriculum Vitae

## **Contact Information:**







### Research:





### Socials:



@WCBeckerson







# Languages: (CEFR)



English

- C2 Native



Spanish

- A2.1 Elementary



Dutch

- A1.1 Elementary

#### Professional Website:



### **EDUCATION**

Doctor of Philosophy in Biology (Ph.D.)

<sup>1</sup>≡08/2015-08/2020

Program on Disease Evolution

University of Louisville - Vouisville, Kentucky, USA

Master of Science in Biology (M.Sc.)

**■**08/2015-05/2017

Program on Disease Evolution

University of Louisville - Vouisville, Kentucky, USA

Department of Biology

Georgetown College - ♥ Georgetown, Kentucky, USA

### RESEARCH EXPERIENCE

#### Postdoctoral Research:

ERC: Marie Skłodowska-Curie Action Postdoctoral Fellowship (link)

Universiteit Utrecht - 9 Utrecht, NL

**■**08/2023-07/2025

PI: Sander van den Heuvel

Research project title: Characterizing the neuronal effects of *Ophiocordyceps* secreted proteins using *C. elegans*.

NSF: Postdoctoral Research Fellowship in Biology (link)

University of Central Florida - Florida, USA

**■**08/2021-07/2023

PI: Charissa de Bekker

Research project title: Linking parasite genomes, environmental ques, and host phenomes in *Ophiocordyceps*.

#### Dissertation Research:

Ruhr-Universität Bochum - PBochum, DE

**■**08/2018-07/2019

Collaborator: Dominik Begerow

Research project title: Implementation of CRISPR Cas9 in *Microbotryum lychnidis-dioicae*.

**AdF: Chateaubriand Fellowship Awardee** (link)

Université Paris-Sud - Orsay, FR

**■05/2016-08/2016** 

Collaborator: Tatiana Giraud

Research project title: Comparative genomics of species-specific effectors in the *Microbotryum genus*.

University of Louisville - 9 Kentucky, USA

<sup>™</sup>08/2015-08/2020

PI: Michael Perlin

Research project title: Molecular analysis of secreted proteins in the *Microbotryum* genus.

Pedagogical Research:

University of Louisville - Ventucky, USA

<sup>≡</sup>09/2017-07/2021

PI: Deborah Yoder-Himes

Research project title: Analyzing the impact of active learning on students of different social personalities.

### **PUBLICATIONS**

I preferentially support the publication of research findings in societal journals who value open access. As such, I have published the majority of my research in journals from the Animal Behavior Society (Animal Behaviour), the American Society for Microbiology (mBio), and the National Science Teaching Association (Journal of College Science Teaching). These journals are known for their rigorous review processes led by field-specific experts, their emphasis research quality, and for reaching a broad scientific audience.

#### Peer-Reviewed Research Articles:

- Tsai MC, Barati MT, Kuppireddy VS, <u>Beckerson WC</u>, Long G, Perlin MH. (2024). Characterization of *Microbotryum lychnidis-dioicae* secreted effector proteins, their potential host targets, and localization in a heterologous host plant. *Journal of Fungi* 10(4), 262. https://doi.org/10.3390/jof10040262
- <u>Beckerson WC</u>, Anderson JO, Kulkarni S, Perpich JD, Yoder-Himes D. (2024). It's About Time: Exploring the dose-dependent effects of active learning on students of different social personalities in an upper-level biology course. *Journal of College Science Teaching*. https://doi.org/10.1080/0047231X.2024.2316378
- Will I, <u>Beckerson WC</u>, de Bekker C. (2023). Using machine learning to predict protein-protein interactions between a zombie ant fungus and its carpenter ant host. *Scientific Reports* 13, 13821. https://doi.org/10.1038/s41598-023-40764-8
- <u>Beckerson WC</u>, Krider C, Mohammad UA, de Bekker C. (2023). 28 Minutes Later: Investigating the role of aflatrem-like compounds in *Ophiocordyceps* parasite manipulation of zombie ants. *Animal Behaviour* 203, 225-240. <a href="https://doi.org/10.1016/j.anbehav.2023.06.011">https://doi.org/10.1016/j.anbehav.2023.06.011</a>
- De Bekker C, <u>Beckerson WC</u>, Carolyn Elya. (2021). Mechanisms Behind the Madness: How do zombie-making fungal entomopathogens affect host behavior to increase transmission? *mBio* 12(5), e01872-21. <u>https://doi.org/10.1128/mBio.01872-21</u>
- <u>Beckerson WC</u>, Anderson JO, Perpich JD, Yoder-Himes D. (2020). An Introvert's Perspective: Analyzing the impact of active learning on social personalities in an upper-level biology course. *Journal of College Science Teaching* 49(3), 47-57. https://doi.org/10.2505/4/jcst20\_049\_03\_47
- <u>Beckerson WC</u>, de la Vega RCR, Hartmann FE, Duhamel M, Giraud T, Perlin MH. (2019). Cause and Effectors: Whole genome comparisons reveal shared but rapidly evolving effector sets among host-specific plant-castrating fungi. *mBio* 10:e02391-19. https://doi.org/10.1128/mBio.02391-19
- Kuppireddy VS, Uversky VN, Toh SS, Tsai M-C, <u>Beckerson WC</u>, Cahill CC, Carman B, Perlin MH. (2017). Identification and initial characterization of effectors of an anther smut fungus and the potential host target proteins. *International Journal of Molecular Science* 18, 2489. https://doi.org/10.3390/ijms18112489

#### Peer-Reviewed Teaching Lessons:

- <u>Beckerson WC</u>, de Bekker C. (2025). Zombie Ants VR: Using virtual reality to teach about coevolution and extended phenotypes. *CourseSource*. **In Preparation**
- <u>Beckerson WC</u>. (2024). Replicating Darwin's Theory: Teaching evolution with microbiology by means of replica plating. *CourseSource*. - **Accepted**
- <u>Beckerson WC</u>. (2022). Small Organisms with Big Consequences: Understanding the microbial world around us. *CourseSource*. https://doi.org/10.24918/cs.2022.27

#### Textbooks:

- Beckerson WC, Laraba I, Torres-Cruz TJ, Steinkraus D, Hajek A. (2024). *Mechanisms of Host Manipulation and Mimicry in Fungi*. In: Haelewaters D. (ed.) *Biodiversity and Evolution of Fungal Parasites and Pathogens*. Amsterdam, Netherlands: Elsevier. (ISBN: 9780323885331) **Preprint** https://doi.org/10.22541/au.172124619.90197485/v1
- Savchenko K, <u>Beckerson WC</u>, Aime C. (2024). *Economically Important Plant Parasites: Rusts and smuts*. In: Haelewaters D. (ed.) *Biodiversity and Evolution of Fungal Parasites and Pathogens*. Amsterdam, Netherlands: Elsevier. (ISBN: 9780323885331) **Preprint** <a href="https://doi.org/10.22541/au.172175972.21516456/v1">https://doi.org/10.22541/au.172175972.21516456/v1</a>
- Perlin MH, <u>Beckerson WC</u>, Gopinath A, Cobbs G. (2019). *Molecular and Cellular Genetics: Laboratory Studies*. San Diego, California United States: Cognella Academic Publishing. **2<sup>nd</sup> Edition**. ISBN: <u>9781793514943</u>
- Perlin MH, <u>Beckerson WC</u>, Gopinath A, Cobbs G. (2018). *Molecular and Cellular Genetics: Laboratory Studies*. San Diego, California United States: Cognella Academic Publishing. **1**<sup>st</sup> **Edition**. ISBN: 9781516528288
- Science Journal for Kids: \*An open access platform for kid-friendly adaptations of peer-reviewed science articles
- <u>Beckerson WC</u>, Krider C, Mohammad U, de Bekker C. (2025). How do some fungi make ants walk like zombies? In: Panayotova E & Firth F. *Science Journal for Kids*. **In Preparation**. adapted from: <a href="https://doi.org/10.1016/j.anbehav.2023.06.011">https://doi.org/10.1016/j.anbehav.2023.06.011</a>

De Bekker C, <u>Beckerson WC</u>, Carolyn Elya (2023). How do some fungi turn insects into zombies? In: Panayotova E & Firth F. *Science Journal for Kids*. <a href="https://www.sciencejournalforkids.org/articles/how-do-some-fungi-turn-insects-into-zombies/">https://www.sciencejournalforkids.org/articles/how-do-some-fungi-turn-insects-into-zombies/</a>. adapted from: <a href="https://doi.org/10.1128/mBio.01872-21">https://doi.org/10.1128/mBio.01872-21</a>

### **FUNDING**

My success in securing grant funding for various research projects has been facilitated by highlighting the value of interdisciplinary research approaches that bridge biology with complementary fields. By fostering strategic collaborations across a diverse range of disciplines, I have consistently demonstrated the capacity for cross-disciplinary endeavors to address complex research questions.

	protest i osobeti ott t		
(€203,464)	<b>■</b> 08/2022		
(\$138,000)	<b>■</b> 06/2021		
(\$250)	<b>■</b> 03/2019		
` /	<b>11/2018</b>		
(\$5,280)	<b>5/2016 5/2016</b>		
,			
(€9,982)	<b>≡</b> 07/2024		
(\$55,000)	<b>≡</b> 08/2020		
(\$200)	<b>≡</b> 06/2019		
(\$350)	<b>≡</b> 01/2019		
(\$250)	<b>≡</b> 01/2019		
(\$350)	<b>6</b> 05/2018		
(\$500)	<b>■04/2018</b>		
(\$175)	<b>≡</b> 02/2018		
(\$1,311)	<b>■</b> 04/2016		
(\$100)	<b>≡</b> 01/2016		
Significant Contributions and Other Grants (\$313,369):			
(\$16,480)	<b>■</b> 04/2024		
· •			
(\$296,889)	<b>≡</b> 08/2018		
	(\$138,000) (\$250) (\$4,075) (\$5,280) (€9,982) (\$55,000) (\$200) (\$350) (\$250) (\$350) (\$175) (\$1,311) (\$100)		

### **TEACHING**

I approach teaching with the same rigor and dedication that I apply to my biological research, continuously seeking evidence-based strategies to improve instruction and enhance student learning outcomes. I am particularly committed to integrating technology and active learning techniques to create dynamic, student-centered university classrooms that foster critical thinking and engagement.

#### Teaching Qualifications:

Universiteit Utrecht Teaching Qualification Program - Vtrecht University, NL

**10**02/2024-10/2024

The "Basis Kwalificatie Onderwijs, or "BKO", is a mark of quality used by all Dutch universities. It functions as a reliable frame of reference with respect to one's didactic skills. The BKO track consists of modules that allow lecturers to assess and develop all facets of teaching. At the end of the track, the participant is awarded a BKO certificate and is qualified for teaching at all Dutch universities: (link)

Preparing Tomorrow's Faculty Program - Vuniversity of Central Florida, USA

<sup>™</sup>08/2021-12/2021

Participants in the Preparing Tomorrow's Faculty (PTF) course engage in a learning community facilitated by Faculty Center staff at the University of Central Florida. During the course, participants assemble a teaching portfolio following modules on student learning and motivation, integrated course design, teaching pedagogies, assessment and feedback, course climate, and career development: (link)

Teaching Experience:				
Invited Group Lecturer for Development		Vageningen Uni	versity, NL	<b>■</b> 05/2024
EZO30306: Developmental Biology of Animal		0 1	C : 2024	
I sections I 20 min	16 students	One class	Spring 2024	₩ 09/2022 07/202 <i>5</i>
MSCA Postdoctoral Research Fellow - B-MEBIFB19: Fungal Biology	V Universiteit Ut	recnt, NL		<b>■</b> 08/2023-07/2025
I section IO5 min/class MBLS-IO7: Functional Biology	12 students	Once/week	Autumn 2024	
2 sections I 20 min/class	5 & 5 students	Once/month	Spring 2024	
B-MEBIFB19: Fungal Biology I section IO5 min/class	13 students	Once/week	Autumn 2023	
NSF Postdoctoral Research Fellow - V				<b>■</b> 08/2021-07/2023
Concurrent teaching for the duration of a PRFI administrative guide for the Postdoctoral Resea	3 fellowship is prohi	bited as outlined on	pg. I5 of the	
				₩00/2010 00/2020
Adjunct Faculty of Record - ♥ Georgeton BIO 100: Introductory Biology for Non-Major				<b>■</b> 08/2019-08/2020
I section 75 min/class	24 students	Four/week	Summer 2020	
BIO III: Introductory Biology for Majors	2 i students	1 out/ week	Summer 2020	
I section 75 min/class BIOL III: Introductory Biology Lab	24 students	Twice/week	Autumn 2019	
I section IIO min/class	24 students	Once/week	Autumn 2019	
Invited Group Lecturer for Biotechnolo	ogy Methods - 🕈 🛚	University of Lo	uisville, USA	<b>■</b> 08/2018-12/2018
BIOL 416: Biotechnology Methods 2 sections 240 min/class	4 & 5 students	Twice/week	Autumn 2018	
Teaching Innovation Learning Lab in M	Microbiology - 💔	University of Lo	uisville, USA	<b>■</b> 08/2017-12/2019
BIO 357: General Microbiology	83	J	,	
I section 75 min/class	64 students	Eight/Semester	Autumn 2019	
BIO 357: General Microbiology	10 1	F /G		
I section 75 min/class BIO 357: General Microbiology	49 students	Four/Semester	Autumn 2018	
I section 75 min/class	43 students	Four/Semester	Spring 2018	
BIO 357: General Microbiology		- 0 /	-18	
I section 75 min/class	65 students	Four/Semester	Autumn 2017	
Graduate Teaching Assistant - Vuniver	sity of Louisville	LISA		<b>■</b> 08/2015-04/2020
BIOL 331: Genetics and Molecular Biology	Sity of Louisville	, 05/1		-00/2013 0 1/2020
2 sections IIO min/class	20 & 20 students	Twice/week	Spring 2020	
BIOL 331: Genetics and Molecular Biology				
2 sections IIO min/class	20 & 22 students	Twice/week	Autumn 2019	
BIOL 331: Genetics and Molecular Biology 2 sections IIO min/class	20 & 22 students	Twice/week	Spring 2019	
BIOL 331: Genetics and Molecular Biology	20 & 22 students	1 wice/ week	Spring 2017	
I section IIO min/class	19 students	Twice/week	Autumn 2018	
BIOL 104: introduction to Biological Systems				
2 sections IIO min/class	I4 students	Three/week	Summer 2018	
BIOL 331: Genetics and Molecular Biology	20.0-211	т : / 1-	C 2019	
2 sections IIO min/class BIOL 331: Genetics and Molecular Biology	20 & 21 students	Twice/week	Spring 2018	
I section II0 min/class	8 students	Twice/week	Autumn 2017	
BIOL 258: Microbiology		,		
2 sections 90 min/class	15 & 6 students	Four Days/week	Summer 2017	
BIOL 331: Genetics and Molecular Biology				
2 sections IIO min/class	17 & 21 students	Twice/week	Spring 2017	
BIOL 331: Genetics and Molecular Biology I section I10 min/class	16 students	Twice/week	Autumn 2016	
BIOL 244: Principles of Biology	10 students	1 WICC/ WCCK	1 MUMINI 4010	
2 sections II0 min/class	27 & 28 students	Twice/week	Spring 2016	
BIOL 104: Introduction to Biological Systems				
3 sections IIO min/class	33, 33, 33 student	ts Once/week	Autumn 2015	

### STUDENTS MENTORED

The success of junior scientists depends on both academic support and the creation of an inclusive learning environment. Towards this end, I am active in promoting inclusivity in my own lab and in the research community as a whole so that individuals from all backgrounds feel safe and empowered to meaningfully contribute to science, regardless of their age, gender, race, sexual orientation, ethnicity, or socioeconomic status.

#### Master's Students:

I have supervised 6 master's students. For 3 of these master's students, I acted as a mentor on their research projects, while I acted as in a more official capacity as the daily supervisor for the other 3. For the later 3, I was responsible for guiding the students through the successful completion of their master's theses. The work from 2 of these master's students for whom I acted as daily supervisor will be included in a joint publication on which they are both listed as contributing authors.

Of these students: 4 identify as female, 1 identifies as male, and 1 identifies as trans-male. 6 described themselves as white. 4 were born in the Netherlands, 1 was born in Germany, and 1 was born in Spain. 5 were taught in the Netherlands and 1 was taught in the United States of America.

#### Undergraduate Students:

I have supervised 11 undergraduates. For these undergraduate students, I was the supervisor for all 11 on a variety of research projects. The work from 2 of these students was included in a joint publication on which they are both listed as contributing authors.

Of these students: 6 identify as female and 5 identify as male. 5 described themselves as white, 5 described themselves as black, 1 describe themselves as middle eastern. 11 of these students were born in the United States of America. 11 of these students were taught in the United States of America.

### OUTREACH \*hyperlinks imbedded in the logos\*

I am a strong proponent of public engagement in science and believe in the importance of making scientific knowledge accessible to local communities. As such, I have participated in numerous outreach events, aiming to inspire curiosity and promote a deeper understanding of biology among a broad range of audiences. For me, public education is just as vital as university education. It helps bridge the gap between scientific research and the broader community and fosters a more informed and scientifically literate society.

### Virtual Reality Videogame Project: Zombie Ants VR

- Associate Producer, Concept Artist, Director of Voice Acting(ENG) -

Website: https://www.williamcbeckersonphd.com/outreach

Steam download: https://store.steampowered.com/app/2416150/Zombie Ants VR/

Zombie Ants VR is a short (10-15 minute) educational experience that takes the player through the life cycle of Ophiocordyceps, a fungus that drives creatures (in this case ants) to change their behavior in order to propagate the fungus then ultimately kills them. This fungus was a large inspiration for the video game series Last of Us and is often affectionately referred to as the "Zombie Fungus".



VR Events:	
<sup>™</sup> 11/2024	Pathways to Sustainability Conference 2024 - ♥ Utrecht, NL
<sup>™</sup> 11/2024	Utrecht University Faculty Club Event - ♥ Utrecht, NL
<sup>™</sup> 2/2022	Otronicon: 3-day Alpha testing of ZombieAntVR with kids - Vorlando, Florida, USA

#### Pint of Science

- Presenter and Coordinator

Pint of Science is an annual science festival that aims to communicate contemporary scientific developments to the public by bringing scientists to pubs, cafés and other public places to share their research and findings. The festival takes place annually in the month of May and covers all aspects of research. Each year, thousands of researchers across more than 400 cities and 25 countries share and discuss their findings with people.



VR Events:	
<sup>™</sup> 05/2025	Event Coordinator - 9 Utrecht, NL
⊞ 05/2024	Presenter: A Fungus and its Zombie Ant: A very real
	example of zombie-making parasites ( <u>link</u> ) - • Utrecht, NL

#### Community Science Initiative: the Zombie Fungus Foray

- Creator -

Website: https://wcbeckerson.wixsite.com/thezombiefungusforay

iNaturalist: https://www.inaturalist.org/projects/the-zombie-fungus-foray

#### K-12 Classroom Outreach:

**10/2022** Amsterdam International Community School - ♥ Amsterdam, NL 10/2021 Wharton High School: National Honor Society - 9 Tampa, FL, USA

**i** 10/2021 Freedom High School: Environmental Science Periods I-7 - Tampa, FL, USA

**≡** 10/2021 Wharton High School: SPLASH Club, and Biology Sections I-6 - ♥ Tampa, FL, USA

<sup>≡</sup>2/2021 Mica Mountain High School: Sections III & VI - 9 Tucson, AR, USA

**iii** 10/2020 Jackson Heights Middle School: Ecology - ♥ Oviedo, FL, USA

**10/2020** Oviedo High School: Sophomore Biology Sections 2, 3, 6, & 7 - Oviedo, FL, USA

Oviedo High School: AP Biology Sections I & II - 9 Oviedo, FL, USA <sup>≡</sup>10/2020



<sup>™</sup> 8/2020-current Curator for the Ophiocordyceps genus <sup>■</sup>8/2020 The Zombie Fungus Foray Project Creator

### Seminole County Parks Partnership:

10/2021 Chuluota Wilderness Area Guided Hike for Zombie Ants - Geneva, Florida, USA <sup>™</sup> 7/2021 Eco Camp: Grossology Week Guide to Zombie Ants - 9 Geneva, Florida, USA

<sup>™</sup> 6/2021 Eco Camp: Biology Bootcamp Guide to Zombie Ants - Geneva, Florida, USA

# Orlando Science Center Partnership:

10/2021 Pumpkins and Protons Halloween Party Exhibit - ♥ Orlando, Florida, USA

**=** 10/2019 Spooky Science Week Exhibit: Real-life Zombie Ants! - Orlando, Florida, USA

### stemCONNECT Partnership:

II 10/2021 Spooky Themed Month Virtual Presentation - Orlando, Florida, USA

Real-life Zombies and Where to Find Them

<sup>™</sup>4/2021 EARTH DAY Virtual Presentation - Orlando, Florida. USA

Real-life Zombies and Where to Find Them

6/2021-2022 @TheZombieFungusForay (<u>link</u>)

#### Other Outreach Activities:

Interview with a student from Esuela Maranatha Cristiana - PEl Escalón, SV	<b>■</b> 09/2024
5 <sup>th</sup> Grade Oral Presentation on a scientist	

Interview with a student from Russelberg Highschool - 9 Tessenderlo, BE

**■04/2024** 

What is Ophiocordyceps, how does it infect ants, and is it similar to the Cordyceps in "The Last of Us"

Museum of Natural Sciences: International Microorganism Day - 9 Brussels, BE **10/2023** 

In collaboration with the Young Belgian Society for Microbiology

Guest on Val 202's Frekvenca X show about "The Last of Us" (link) - 9 SI **■**03/2023 Guest on NPR's The Colin McEnroe Show: "The Last of Us" (link) - ♥ Connecticut, USA **■**02/2023

Correspondent for Inverse: Science behind "The Last of Us" (link) - New York, USA **■**01/2023

Correspondent for Newsweek: Science behind "The Last of Us" (link) - New York, USA <sup>™</sup>01/2023 Orlando MegaCon Presenter (link) - Florida, USA **■**05/2022

Examining the Science Behind Zombie Movies

Orlando Taste of Science - Science Festival, Scientists Inc. (link) - Florida, USA **■04/2022** 

Real-life Zombies and Where to Find Them



Orlando MegaCon Panelist - 9 Florida, USA **■**08/2021

The Last Damn Zombie Science Panel You'll Ever Need!



	iologist - Vermont, USA imaldo Garcia of Middleburry College	<b>10/2021</b>
Skype a Scien	ntist Live: Orlando - ♥ Florida, USA	<b>1</b> 02/2021
. ,	e: Real Life Zombies and Where to Find Them ( <u>link</u> )	
	cientist: Monnik Beer Company -   Kentucky, USA	<b>3/2020</b>
	ne Fungi: The many types of fungi and the history of how we've used them	
Skype a Scien	ntist	<b>■04/2019-10/2021</b>
10/2020	Creekside Middle School: Sixth Grade Class – 📍 Bentonville, Arizona, USA	
5/2019	Marie Curie Institute: Fourth and Fifth Grade Class − 🕈 Amsterdam, New York, USA	
5/2019	Corry Area High School: Ninth Grade Class – 📍 Corry, Pennsylvania, USA	
4/2019	Newark Central: Second Grade Class − 🤊 Newark, New York, USA	
4/2019	E.K. Powe Elementary School: First Grade Class – 📍 Durham, North Carolina, USA	
4/2019	Annunciation Catholic School: Seventh Grade Class – PDenver, Colorado, USA	
Guest Speake	r at University of Louisville: Meet the Professor - Ventucky, USA	<b>■</b> 04/2019
Science Inform	nation Literacy & Oral Communication	
	r at Lexington Christian Academy High School - • Kentucky, USA genetic modification of our food	<b>12/2018</b>
Guest Speake What is a GM	r at Lexington Christian Academy High School - • Kentucky, USA	<b>■</b> 02/2016
ExBEERimer The science of	<b>■</b> 09/2016	

# CONFERENCE PRESENTATIONS

The transparent sharing of new findings and data with other research groups significantly accelerates scientific progress. By presenting my up-to-date research findings openly at a diverse set of conferences, I aim champion open science practices and facilitate international cooperation. Through global collaborations that value our diverse expertises, we can better address complex scientific challenges.

# Conference Chair:

Gordon Research Seminar: Cellular Molecular Fungal Biology - • New Hampshire, USA Chaired with co-chair Andrew Swafford	<b>■</b> 07/2022-06/2024
Oral Presentations:	
Host-Microbe Genetics Meeting - ♥ Leiden, NL	<b>≡</b> 10/2024
"The First of Us: Yeast two-hybrid unveils a novel scramblase binding protein in the repertoire of Ophiocordyceps effectors"	
Gordon Research Conference: Cellular Molecular Fungal Biology - ♥ New Hampshire, USA	<b>≡</b> 06/2024
CEREBRALfungi: Characterizing the neuronal effects of behavioral-modifying protein from the zombie fungi,	
Ophiocordyceps, using C. elegans	<del>=</del> 0.€/2.022
8 <sup>th</sup> Conference on Physiology of Yeasts and Filamentous Fungi - • Cork, IR	<b>■</b> 06/2023
Using Yeast to heterologously study the behavior-modifying effects of recalcitrant zombie fungi biomolecules  Gordon Research Seminar: Cellular Molecular Fungal Biology - New Hampshire, USA	<b>■</b> 06/2022
28 Minutes Later: Analyzing the role of aflatrem-like effectors in the behavioral manipulation of Zombie Ants	₩ 00/2022
Animal Behavior Society Online Conference - Vonline	<b>■</b> 08/2021
28 Minutes Later: The role of secreted effectors in the behavioral manipulation of zombie ants	00/2021
Ruhr-Universität Bochum Microbotryum Symposium - Pochum, DE	<b>≡</b> 07/2019
An Unorthodox CRISPR Approach for an Unorthodox Fungus	
Asilomar Fungal Genetics Conference: Smut Convergence - California, USA	<b>≡</b> 03/2019
Cause and Effectors: Secretome comparison of members from the anther-smut pathogen species complex,	
Microbotryum violaceum	
Gordon Research Seminar Cellular Molecular Fungal Biology - New Hampshire, USA	<b>≡</b> 06/2018
The First Cut is the Deepest: Implementing CRISPR Cas9 as a transformation system for site specific gene	
disruptions in the fungal pathogen species complex <i>Microbotryum violaceum</i> <b>Kentucky Academy of Science Conference - 9</b> Kentucky, USA	<b>11/2016</b>
Identifying unique small-secreted proteins in divergent species of the fungal pathogen complex <i>Microbotryum</i>	II/2010
violaceum	
Ruhr-Universität Bochum <i>Microbotryum</i> Symposium - Pochum, DE Analyzing the role of protein-protein interactions in host/pathogen co-evolution	<b>■</b> 06/2016

Poster Presentations:	
European Worm Meeting - VUtrecht, NL	<sup>≡</sup> 07/2024
Zombie Worms: Using <i>C. elegans</i> to characterize the behavior-modifying effects of an <i>Ophiocordyceps</i> zombie	
fungus protein	
Gordon Research Conference: Cellular Molecular Fungal Biology - New Hampshire, USA CEREBRALfungi: Characterizing the neuronal effects of behavioral-modifying protein from the zombie fungi,	<b>■</b> 06/2024
Ophiocordyceps, using C. elegans	
European Conference on Fungal Genetics - 9 Innsbruck, AT	<b>■</b> 03/2023
28 Minutes Later: A proof of concept for testing behavior-manipulating compounds from zombie-making fungi	
Gordon Research Conference Cellular Molecular Fungal Biology - ♥ New Hampshire, USA 28 Minutes Later: Analyzing the role of aflatrem-like effectors in the behavioral manipulation of Zombie Ants	<sup>≡</sup> 06/2022
National Association of Biology Teachers: Professional Conference - Gorgia, USA	<b>≡</b> 11/2021
It's About Time: Exploring the dose-dependent effects of active learning on student social personality in an upper-level biology course	11/2021
National Association of Biology Teachers: Professional Conference - • Gorgia, USA	<b>11/2021</b>
The Zombie Fungus Foray: Community science outreach using iNaturalist to discover Zombie Ants	
National Association of Biology Teachers: Professional Conference - VIllinois, USA	<b>≡</b> 11/2019
An Introvert's Perspective: Analyzing the impact of active learning on multiple levels of class social personalities in an upper-level biology course	
Asilomar Fungal Genetics Conference - California, USA	<b>≡</b> 03/2019
Cause and Effectors: Secretome comparison of members from the anther-smut pathogen species complex,	
Microbotryum violaceum	<u>=</u> 0.6/2.01.0
Gordon Research Conference Cellular Molecular Fungal Biology - ♥ New Hampshire, USA The First Cut is the Deepest: Implementing CRISPR Cas9 as a transformation system for site specific gene disruptions in the fungal pathogen species complex <i>Microbotryum violaceum</i>	⊞06/2018

### PROFESSIONAL PRESENTATIONS

The exchange of knowledge between researchers from different institutions is essential for stimulating new scientific ideas through the lens of new perspectives. Towards this end, I actively engage with other researchers to share my academic insights. These interactions have resulted in the formation of lasting collaborations, enhanced my research capabilities, and strengthened my scientific network.

Universiteit Utrecht Faculty Pedagogical Journal Club - Vtrecht, NL	<sup>™</sup> 02/2024
The dose-dependent effect of group-based active learning on students with different social personalities.	
Arkansas State University Queretaro STEM Week Invited Speaker - ♥ Queretaro, MX	<b>≡</b> 02/2023
Real-life Zombies and Where to Find Them: How fungi manipulate animal behavior!	atmits a second of
Utrecht U. Molecular Life Sciences Honors Program Invited Speaker - Vutrecht, NL	<sup>™</sup> 10/2022
Observations from the Crypt: The science behind zombie ants and their fungal parasites	
University of Oxford Invited Speaker - ♥ Oxford, UK	<b>≡</b> 09/2022
28 Minutes Later: The role of secreted effectors in the behavioral manipulation of zombie ants	
University of Louisville Invited Speaker Series - Ventucky, USA	<b>■</b> 09/2020
Comparative secretomics and functional analysis of effectors utilized by the <i>Microbotryum</i> genus of anther-smut	
fungal pathogens, and their role in host-specificity	
University of Central Florida Invited Speaker Series - Plorida, USA	<b>■</b> 09/2020
Comparative secretomics and functional analysis of effectors utilized by the <i>Microbotryum</i> genus of anther-smut	
fungal pathogens, and their role in host-specificity	
Georgetown College Invited Speaker Seminar -   Kentucky, USA	<b>≡</b> 11/2019
Cause and Effectors: How rapidly evolving effectors lead to host-specificity between Microbotryum and Caryophyll	
Belknap Academic Building Anniversary Event - • Kentucky, USA	<sup>≡</sup> 08/2019
An Introvert's Perspective: Analyzing the impact of active learning on multiple levels of class social personalities	
in an upper-level biology course	
Ruhr-Universität Bochum Invited Speaker - Pochum, DE	<b>≡</b> 06/2019
The History and Future of CRISPR Cas9	
Ruhr-Universität Bochum Invited Speaker - Pochum, DE	<b>≡</b> 06/2018
The First Cut is the Deepest: CRISPR Cas9 and how to get started	
Georgetown College Invited Speaker Seminar - Ventucky, USA	<b>≡</b> 10/2016
Here and Back Again: A GCPALS tale	
Université du Paris Sud Chateaubriand Fellowship Invited Speaker - Orsay, FR	<b>■</b> 05/2016
Identification of Small-Secreted Proteins in the Microbotryum genus	

# PROFESSIONAL DEVELOPMENT

The pursuit of scientific knowledge is a life-long journey of learning, and one that extends beyond the confines of a formal education. To be effective scientists, mentors, and educators, we should constantly sharpen our ideas and competencies by learning from other experts in our fields. To improve my own teaching and research skills, I actively participating in annual workshops, trainings, and educational conferences, ensuring that I am up to date of new findings and adapt to an ever-expanding body of knowledge.

Fiji ImageJ Software Workshop - Vtrecht, NL  Teaching and Learning Inspiration Days Conference - Vtrecht, NL  Feb 1" Using open educational resources Jan 30th AR/VR: Experience the future of learning Jan 30th Evidence-informed educational change Jan 29th Education with societal partners in practice  Parametric Modeling for 3D Printing w/ Fusion – Basics Workshop - Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Basics Workshop - Vtrecht, NL  Fused Deposition Modeling for Microbiology Mycology Conference - Vtrecht, NL  Fused Deposition Modeling for Postdocs - Vtrecht, NL  Fused Deposition Modeling for Microbiology Mycology Conference - Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Basics Workshop - Vtrecht, NL  Fused Deposition Modeling for Microbiology Mycology Conference - Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Basics Workshop - Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Basics Workshop - Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Basics Workshop - Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Vtrecht, NL  Fused Deposition Modeling for 3D Printing – Vtrecht, NL  Fused Deposition Modeling for 3D Printing fused f
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Jan 30 <sup>th</sup> AR VR: Experience the future of learning Jan 30 <sup>th</sup> Evidence-informed educational change Jan 29 <sup>th</sup> Education with societal partners in practice  Parametric Modeling for 3D Printing w/ Fusion − Basics Workshop - Vutrecht, NL
Jan 30th   Evidence-informed educational change   Education with societal partners in practice
Parametric Modeling for 3D Printing w/ Fusion – Basics Workshop - Vutrecht, NL  Fused Deposition Modeling for 3D Printing – Basics Workshop - Vutrecht, NL  Education with societal partners in practice  Fused Deposition Modeling for 3D Printing – Basics Workshop - Vutrecht, NL  Education Modeling for 3D Printing – Basics Workshop - Vutrecht, NL  Education Modeling for 3D Printing – Basics Workshop - Vutrecht, NL  Education Modeling for 3D Printing – Basics Workshop - Vutrecht, NL  Education Modeling for 3D Printing – Successful Modeling for 3D Printing – Vutrecht, NL  Education Modeling for 3D Printing Modeling for 3D Printing – Vutrecht, NL  Education Modeling for 3D Printing Modeling for Modeling
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Fused Deposition Modeling for 3D Printing – Basics Workshop - ¶ Utrecht, NL
2023 Royal Dutch Association for Microbiology Mycology Conference - ♥ Utrecht, NL  Public Engagement Academy for Postdocs - ♥ Utrecht, NL  Founding member of an academy to teach and facilitate outreach by postdoctoral scholars including the following modules:  Aug 6 <sup>th</sup> Dialogue training  May I4 <sup>th</sup> Media training Popular science writing  Apr 2 <sup>nd</sup> Engaging children  Feb 20 <sup>th</sup> Public communication skills  Jan 9 <sup>th</sup> Impact measurements  Wetenschnapps: Public Engagement - recognition and rewards in practice - ♥ Utrecht, NL  Universiteit Utrecht Professional Media Communication Training - ♥ Utrecht, NL  Universiteit Utrecht Association for Microbiology Mycology Conference - ♥ Utrecht, NL  SF Improving Undergraduate STEM Education Program - ♥ Florida, USA  □ 03/2022-05/2022
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Jan 9th       Impact measurements         Wetenschnapps: Public Engagement - recognition and rewards in practice - ♥ Utrecht, NL       ■11/2023         Universiteit Utrecht Professional Media Communication Training - ♥ Utrecht, NL       ■11/2023         2022 Royal Dutch Association for Microbiology Mycology Conference - ♥ Utrecht, NL       ■11/2022         NSF Improving Undergraduate STEM Education Program - ♥ Florida, USA       ■03/2022-05/2022
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2022 Royal Dutch Association for Microbiology Mycology Conference - ♥ Utrecht, NL  NSF Improving Undergraduate STEM Education Program - ♥ Florida, USA  □ 11/2022 □ 03/2022-05/2022
NSF Improving Undergraduate STEM Education Program - ♥ Florida, USA \(\begin{align*} \begin{align*} \text{ \pi} \\  \pi
Mar-May the Inclusive STEM Teaching Project
Collaborative Institutional Training Initiative - ♥ Florida, USA
Mar 3 <sup>rd</sup> Human Subjects Research – Group 2
Feb 24 <sup>th</sup> Social/Behavioral Research Investigators and Key Personnel
Feb 10 <sup>th</sup> Communicating Research Findings  Jan 13 <sup>th</sup> Conflict of Interest
NIH Grant Writing Virtual Conference - ♥ Florida, USA
Faculty Search Committee: Diversity Training - ♥ Kentucky, USA \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Professional Societies/Organizations:
Animal Behavior Society   © 08/2021-current
American Society for Microbiology
National Science Teaching Association
National Association of Biology Teachers
2021-2022 Justice, Equity, Diversity, and Inclusion Committee
2019-2020 Community Science Committee
Genetics Society of America
Science Communication Virtual Networking Moderator for the 31st FGC
Kentucky Academy of Science

### ACADEMIC AND UNIVERSITY SERVICES

Throughout my academic career, I have actively engaged in extracurricular activities within the university to help build a connected academic community. My commitment to these roles reflects my dedication to cultivating an enriching environment for both students and staff that places value in the overall university experience beyond the formal teaching and research settings.

#### University Services:

Utrecht Selective Life	Sciences Extra Curricular Track selection committee 2024 - Vtrecht, NL	<b>11/2024-1/2025</b>
Utrecht Selective Life	Sciences Extra Curricular Track selection committee 2023 - Vtrecht, NL	<b>≡</b> 11/2023-1/2024
2022 University of Lo	uisville Biology Alumni Advice Panel - Ventucky, USA	<b>≡</b> 11/2022
2021 University of Lo	uisville Biology Alumni Advice Panel - Ventucky, USA	<b>■</b> 08/2021
Chair of the University	y of Central Florida Invited Speaker Series - Florida, USA	<sup>™</sup> 08/2021-04/2022
Diversity, Equity, and	Inclusion: Classroom Isolation Subcommittee - 9 Florida, USA	<b>≡</b> 02/2021
Biology Undergraduat	e Student Association: Graduate Student Panel - • Kentucky, USA	<b>≡</b> 10/2019
Biology Faculty Searc	h Committee: Graduate Student Representative - • Kentucky, USA	<b>■</b> 02/2019
Student Grievance & I	Discipline Committee - • Kentucky, USA	<sup>≡</sup> 08/2016-4/2017
2016-2017	Natural Science Division Representative	
Graduate Network of	Arts & Sciences - ♥ Kentucky, USA	<b>■</b> 08/2016-4/2018
2017-2018	Vice President	
2017	Natural Science Rep. for Grant Review Committee	
2016-2018	Department of Biology Representative	
Biology Graduate Stud	dent Association - University of Louisville, USA	<b>■</b> 08/2015-7/2020
2019-2020	President	
2018-2019	Graduate Student Rep.	
2016-2017	Social Chair	
2016 & 2020	Webmaster	
2016-2020	Member	
Community Servic	Δα <b>:</b>	
•	e Research Conference Abstract Reviewer - 9 Florida, USA	<b>≡</b> 06/2021
•		
OCF Student Scholar	Symposium for Undergraduate Research Judge - ♥ Florida, USA	<b>≡</b> 03/2021

Florida Undergraduate Research Conference Abstract Reviewer - Plorida, USA	<b>■</b> 06/2021
UCF Student Scholar Symposium for Undergraduate Research Judge - 9 Florida, USA	<b>■</b> 03/2021
DuPont Manual Regional Science Fair Judge - Ventucky, USA	<b>≡</b> 06/2019
DuPont Manual Regional Science Fair Judge - ♥ Kentucky, USA	<b>■</b> 06/2018
Louisville Regional Science & Engineering Fair Judge - Ventucky, USA	<b>■</b> 03/2018

#### Peer Review Services:

Reinvention Journal of Undergraduate Research	1 primary research article	<b>2024</b>
Genome Biology and Evolution	2 primary research article	<b>2024</b>
Molecular Ecology	2 primary research articles	<b>2022-2023</b>
CourseSource	3 primary research articles	<b>2020-2024</b>
	1 conference publication	
Society for Molecular Plant-Microbe Interactions	1 primary research article	<b>2020</b>

# HONORS & AWARDS

I am fortunate to have been granted several honors and awards for my work over the years. Here are some of the items that pertain to the recognition that I have received that are separate from the grants and fellowship that I have obtained:

European Worm Meeting 2024 – 2 <sup>nd</sup> Place for outstanding poster ( <u>link</u> ) - ♥ Utrecht, NL	<b>≡</b> 03/2023
UU News: MSCA fellowships for five Utrecht researchers (link) - Vutrecht, NL	<b>≡</b> 03/2023
UCF Today: Stories of impact + innovation ( <u>link</u> ) - • Florida, USA	<b>≡</b> 02/2021
Graduate Dean's Citation (link) - ♥ Kentucky, USA	<b>12/2020</b>
Graduate Student Publication Award - Ventucky, USA	<b>≡</b> 04/2020
Graduate School of Arts and Sciences Student Spotlight (link) - ♥ Kentucky, USA	<b>■</b> 03/2020
Introductory Biology Lab Development Award - Ventucky, USA	<b>≡</b> 07/2019
Graduate Student Research Presentation Award - Ventucky, USA	<b>≡</b> 04/2019
Biology Department Service Award - Ventucky, USA	<b>≡</b> 04/2019
College of Arts and Science Student Profile ( <u>link</u> ) - • Kentucky, USA	<b>≡</b> 02/2016

### REFERENCES

Collaborative efforts in scientific teaching and research have been the cornerstone of my work. The exchange of ideas, expertise, and perspectives from a diverse group of fellow colleagues and students has enriched my understanding and undoubtedly augmented my approach to complex scientific problems. While the overall list of collaborators with whom I have worked with through my career is much too long to include, here are some of the individuals who have particularly shaped my career in science.

Dr. Pauline Krijgsheld Dr. Steffen Werner Dr. Sander van den Heuvel Dr. Charissa de Bekker Dr. Michael Perlin Dr. Tatiana Giraud Dr. Dominik Begerow Dr. Scott Gold Universiteit Utrecht, NL/ Teaching Mentor Wageningen University, NL/ Collaborator Universiteit Utrecht, NL/ PI University of Central Florida, USA/ PI University of Louisville, USA/ PI Université Paris-Sud, FR/ Collaborator Universität Hamburg, DE/ Collaborator USDA Georgia, USA/ Advisor

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Scott.Gold@ARS.USDA.Gov