

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

## Contact Information:



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## Research:



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WCBeckerson/

## Socials:



@WCBeckerson



@WilliaMycete



@aBitofBiology

## Languages: (CEFR)



English - C2  
Native



Spanish - A2.1  
Elementary



Dutch - A1.1  
Elementary

[What is CEFR?](#)

## EDUCATION

University of Louisville - Louisville, KY, USA 2015-2020  
Doctor of Philosophy in Biology

University of Louisville - Louisville, KY, USA 2015-2017  
Master of Science in Biology

Georgetown College - Georgetown, KY, USA 2009-2013  
Bachelor of Science in Biology / Minor: Business Management

## RESEARCH EXPERIENCE

### Postdoctoral Research:

**EC: [Marie Skłodowska-Curie Action Postdoctoral Fellowship Awardee](#)**

Utrecht University, Utrecht, NL 2023-2025

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 Awardee](#)**

University of Central Florida, FL, USA 2021-2023

PI: Charissa de Bekker

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

### Dissertation Research:

Ruhr-Universität Bochum, Bochum, DE 2018-2019

Collaborator: Dominik Begerow

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

**AdF: [Chateaubriand Fellowship Awardee](#)**

Université Paris-Sud, Orsay, FR 2016-2018

Collaborator: Tatiana Giraud

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

University of Louisville, KY, USA 2015-2020

PI: Michael Perlin

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

### Pedagogical Research:

University of Louisville, KY, USA 2017-2021

PI: Deborah Yoder-Himes

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

## PUBLICATIONS

### Peer Reviewed Research Articles:

- Will I, Beckerson WC, 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>
- Beckerson WC, 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. <https://doi.org/10.1016/j.anbehav.2023.06.011>
- Beckerson WC, Anderson JO, Kulkarni S, Perpich JD, Yoder-Himes D. (2023). 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*. - **Accepted**
- De Bekker C, Beckerson WC, Carolyn Elya. (2021). Mechanisms Behind the Madness: How do zombie-making fungal entomopathogens affect host behavior to increase transmission? *mBio* 12(5), e01872-21. <https://doi.org/10.1128/mBio.01872-21>
- Beckerson WC, 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](https://doi.org/10.2505/4/jcst20_049_03_47)
- Beckerson WC, 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, Beckerson WC, 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:

- Beckerson WC. (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. (2023). *Mechanisms of Host Manipulation and Mimicry in Fungi*. In: Haelewaters D. (ed.) *Biodiversity and Evolution of Fungal Parasites and Pathogens* (pp. xxx-xxx). Amsterdam, Netherlands: Elsevier. - **In Preparation**
- Savchenko K, Beckerson WC, Aime C. (2023). *Economically Important Plant Parasites: Rusts and smuts*. In: Haelewaters D. (ed.) *Biodiversity and Evolution of Fungal Parasites and Pathogens* (pp. xxx-xxx). Amsterdam, Netherlands: Elsevier. - **In Preparation**
- Perlin MH, Beckerson WC, Gopinath A, Cobbs G. (2019). *Molecular and Cellular Genetics: Laboratory Studies*. San Diego, California United States: Cognella Academic Publishing. **2<sup>nd</sup> Edition**
- Perlin MH, Beckerson WC, Gopinath A, Cobbs G. (2018). *Molecular and Cellular Genetics: Laboratory Studies*. San Diego, California United States: Cognella Academic Publishing. **1<sup>st</sup> Edition**

## FUNDING

### Extramural Funding and Fellowships (\$147,605 & €203,464):

Marie Skłodowska-Curie Actions Postdoctoral Fellowship (MSCA): NL (€203,464)		2022
Grant agreement ID: 101108298 (DOI: 10.3030/101108298)		
NSF Postdoctoral Research Fellowship in Biology (PRFB): USA	(\$138,000)	2021
Award number (FAIN): 2109435		
GSA Fungal Genetics Conference Travel Award: USA	(\$250)	2019
DAAD Short Term Research Grant: DE	(\$4,075)	2018
Chateaubriand STEM Fellowship: FR	(\$5,280)	2016

### Intramural Funding: University of Central Florida, FL, USA (\$55,000):

Preeminent Postdoctoral Program	(\$55,000)	2020
Co-written with: Dr. Charissa de Bekker		

### Intramural Funding: University of Louisville, KY, USA (\$3,236):

Biology 1970's Cohort Fund Grant	(\$200)	2019
Graduate Student Council Travel Grant	(\$350)	2019
Graduate Network of Arts and Science Travel Grant	(\$250)	2019
Graduate Student Council Travel Grant	(\$350)	2018
Arts & Science Research & Creative Activities Grant	(\$500)	2018
Biology Graduate Student Association Travel Grant	(\$175)	2018
Joint Arts & Science Research & Creative Activities Grant	(\$1,311)	2016
Co-written with: Venkata S. Kuppireddy		
Graduate Network of Arts and Sciences Research Fund	(\$100)	2016

### Significant Contributions to Other Grants (\$296,889):

NSF Track I International Research Experience for Students: USA	(\$296,889)	2018
Co-written with: (PI) Dr. Michael H. Perlin Award number: I824851		

## CONFERENCE PRESENTATIONS

### Oral Presentations:

8 <sup>th</sup> Conference on Physiology of Yeasts and Filamentous Fungi – Cork, IR		2023
Using Yeast to heterologously study the behavior-modifying effects of recalcitrant zombie fungi biomolecules		
Gordon Research Seminar on Cellular and Molecular Fungal Biology – NH, USA		2022
28 Minutes Later: Analyzing the role of aflatoxin-like effectors in the behavioral manipulation of Zombie Ants		
Animal Behavior Society Online Conference – online		2021
28 Minutes Later: The role of secreted effectors in the behavioral manipulation of zombie ants		
Ruhr-Universität Bochum <i>Microbotryum</i> Symposium – Bochum, DE		2019
An Unorthodox CRISPR Approach for an Unorthodox Fungus		
Asilomar Fungal Genetics Conference: Smut Convergence – CA, USA		2019
Cause and Effectors: Secretome comparison of members from the anther-smut pathogen species complex, <i>Microbotryum violaceum</i>		
Gordon Research Seminar on Cellular and Molecular Fungal Biology – NH, USA		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>		
Kentucky Academy of Science Conference – KY, USA		2016
Identifying unique small-secreted proteins in divergent species of the fungal pathogen complex <i>Microbotryum violaceum</i>		

Ruhr-Universität Bochum <i>Microbotryum</i> Symposium – Bochum, DE	2016
Analyzing the role of protein-protein interactions in host/pathogen co-evolution	
<b>Poster Presentations:</b>	
European Conference on Fungal Genetics – Innsbruck, AT	2023
28 Minutes Later: A proof of concept for testing behavior-manipulating compounds from zombie-making fungi	
Gordon Research Conference on Cellular and Molecular Fungal Biology – NH, USA	2022
28 Minutes Later: Analyzing the role of aflatrem-like effectors in the behavioral manipulation of Zombie Ants	
National Association of Biology Teachers: Professional Conference – GA, USA	2021
It's About Time: Exploring the dose-dependent effects of active learning on student social personality in an upper-level biology course	
National Association of Biology Teachers: Professional Conference – GA, USA	2021
The Zombie Fungus Foray: Community science outreach using iNaturalist to discover Zombie Ants	
National Association of Biology Teachers: Professional Conference – IL, USA	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 – CA, USA	2019
Cause and Effectors: Secretome comparison of members from the anther-smut pathogen species complex, <i>Microbotryum violaceum</i>	
Gordon Research Conference on Cellular and Molecular Fungal Biology – NH, USA	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>	

## PROFESSIONAL PRESENTATIONS

Arkansas State University Queretaro STEM Week Invited Speaker – Queretaro, MX	2023
Real-life Zombies and Where to Find Them: How fungi manipulate animal behavior!	
Utrecht U. Molecular Life Sciences Honors Program Invited Speaker – Utrecht, NL	2022
Observations from the Crypt: The science behind zombie ants and their fungal parasites	
University of Oxford Invited Speaker – Oxford, UK	2022
28 Minutes Later: The role of secreted effectors in the behavioral manipulation of zombie ants	
University of Louisville Invited Speaker Series – KY, USA	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 – FL, USA	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 – KY, USA	2019
Cause and Effectors: How rapidly evolving effectors lead to host-specificity between <i>Microbotryum</i> and Caryophyllaceae	
Belknap Academic Building Anniversary Event – KY, USA	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 – Bochum, DE	2019
The History and Future of CRISPR Cas9	
Ruhr-Universität Bochum Invited Speaker – Bochum, DE	2018
The First Cut is the Deepest: CRISPR Cas9 and how to get started	
Georgetown College Invited Speaker Seminar – KY, USA	2016
Here and Back Again: A GCPALS tale	
Université du Paris Sud Chateaubriand Fellowship Invited Speaker – Orsay, FR	2016
Identification of Small-Secreted Proteins in the <i>Microbotryum</i> genus	

## PROFESSIONAL DEVELOPMENT & SERVICES

### Training/Workshops/Conferences:

Public Engagement Academy for Postdocs – UU, NL	2023-2024
2024	Impact measurements, Public communication skills, Engaging children, Media training, Popular science writing, Dialogue training.
2023	Founding member
Wetenschaps 10: Public Engagement - recognition and rewards in practice – UU, NL	2023
Utrecht University Professional Media Communication Training – UU, NL	2023
Gordon Research Seminar: Cellular Molecular Fungal Biology 2024 – NH, USA	2022-2024
2023	Conference Chair
NSF Improving Undergraduate STEM Education Program – UCF, FL, USA	2022
2022	The Inclusive STEM Teaching Project
Collaborative Institutional Training Initiative – UCF, FL, USA	2021
2021	Human Subjects Research – Group 2
2021	Social/Behavioral Research Investigators and Key Personnel
2021	Communicating Research Findings
2021	Conflict of Interest
Preparing Tomorrow's Faculty Program – UCF, FL, USA	2021
NIH Grant Writing Virtual Conference – UCF, FL, USA	2020
Training with Remote Teaching Options for COVID-19 – UofL, KY, USA	2020
Research Academy RUHR: Open Access Science Workshop – UB, Bochum, DE	2019
Faculty Search Committee: Diversity Training – UofL, KY, USA	2019

### Professional Societies/Organizations:

Animal Behavior Society	2021-current
National Association of Biology Teachers	2019-current
2021-2022	Justices, Equity, Diversity, and Inclusion Committee
2019-2020	Community Science Committee
Genetics Society of America	2018-current
2022	Science Communication Virtual Networking Moderator for the 31 <sup>st</sup> FGC
Kentucky Academy of Science	2014-2020

### University Services:

Utrecht Selective Life Sciences Extra Curricular Track selection committee – UU, NL	2023
UofL Biology Alumni Advice Panel – UofL, KY, USA	2021 & 2022
Committee for the Invited Speaker Series – UCF, FL, USA	2021-2022
Diversity, Equity, and Inclusion: Classroom Isolation Subcommittee – UCF, FL, USA	2021
Biology Undergraduate Student Association: Graduate Student Panel – UofL, KY, USA	2019
Biology Faculty Search Committee: Graduate Student Representative – UofL, KY, USA	2019
Student Grievance & Discipline Committee – UofL, KY, USA	2016-2017
2016-2017	Natural Science Division Representative
Graduate Network of Arts & Sciences – UofL, KY, USA	2016-2018
2017-2018	Vice President
2017	Natural Science Rep. for Grant Review Committee
2016-2018	Department of Biology Representative
Biology Graduate Student Association – UofL, KY, USA	2015-2020
2019-2020	President
2018-2019	Graduate Student Rep.
2016-2017	Social Chair
2016 & 2020	Webmaster
2016-2020	Member

**Community Services:**

Florida Undergraduate Research Conference (FURC) Abstract Reviewer – FL, USA	2021
UCF Student Scholar Symposium for Undergraduate Research (SURE) Judge – FL, USA	2021
DuPont Manual Regional Science Fair Judge – Louisville, KY, USA	2019
DuPont Manual Regional Science Fair Judge – Louisville, KY, USA	2018
Louisville Regional Science & Engineering Fair Judge – KY, USA	2018

**Peer Review Services:**

Molecular Ecology	2 papers	2022-2023
CourseSource	3 papers	2020-2023
Society for Molecular Plant-Microbe Interactions	1 paper	2020

**TEACHING EXPERIENCE****MSCA Postdoctoral Research Fellow** 2023-2025

B-MEBIFB19: Fungal Biology  
 I section 105 min/class 13 students Twice/week Autumn 2023

**NSF Postdoctoral Research Fellow** 2021-2023

Concurrent teaching for the duration of a PRFB fellowship is prohibited as outlined on pg. 15 of the administrative guide for the Postdoctoral Research Fellowships in Biology program:  
<https://www.nsf.gov/pubs/2021/nsf21081/nsf21081.pdf>

**Adjunct Faculty of Record, Georgetown College, KY, USA** 2019-2020

BIO 100: Introductory Biology for Non-Majors (100% Remote Learning)  
 I section 75 min/class 24 students Four/week Summer 2020  
 BIO 111: Introductory Biology for Majors  
 I section 75 min/class 24 students Twice/week Autumn 2019  
 BIOL 111: Introductory Biology Lab  
 I section 110 min/class 24 students Once/week Autumn 2019

**Invited Group Lecturer for Biotechnology Methods, University of Louisville, KY, USA** 2018

BIOL 416: Biotechnology Methods  
 2 sections 240 min/class 4 students Twice/week Autumn 2018

**Teaching Innovation Learning Lab for Microbiology, University of Louisville, KY, USA** 2017-2019

BIO 357: General Microbiology  
 I section 75 min/class 64 students Eight/Semester Autumn 2019  
 BIO 357: General Microbiology  
 I section 75 min/class 49 students Four/Semester Autumn 2018  
 BIO 357: General Microbiology  
 I section 75 min/class 43 students Four/Semester Spring 2018  
 BIO 357: General Microbiology  
 I section 75 min/class 65 students Four/Semester Autumn 2017

**Graduate Teaching Assistant, University of Louisville, KY, USA** 2015-2020

BIOL 331: Genetics and Molecular Biology  
 2 sections 110 min/class 20 & 20 students Twice/week Spring 2020  
 BIOL 331: Genetics and Molecular Biology  
 2 sections 110 min/class 20 & 22 students Twice/week Autumn 2019  
 BIOL 331: Genetics and Molecular Biology  
 2 sections 110 min/class 20 & 22 students Twice/week Spring 2019  
 BIOL 331: Genetics and Molecular Biology  
 I section 110 min/class 19 students Twice/week Autumn 2018  
 BIOL 104: introduction to Biological Systems  
 2 sections 110 min/class 14 students Three/week Summer 2018

BIOL 33I: Genetics and Molecular Biology	2 sections	110 min/class	20 & 21 students	Twice/week	Spring 2018
BIOL 33I: Genetics and Molecular Biology	1 section	110 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 33I: Genetics and Molecular Biology	2 sections	110 min/class	17 & 21 students	Twice/week	Spring 2017
BIOL 33I: Genetics and Molecular Biology	1 section	110 min/class	16 students	Twice/week	Autumn 2016
BIOL 244: Principles of Biology	2 sections	110 min/class	27 & 28 students	Twice/week	Spring 2016
BIOL 104: Introduction to Biological Systems	3 sections	110 min/class	33, 33, & 33 students	Once/week	Autumn 2015

## HONORS & AWARDS

UU News: MSCA Fellowships for five Utrecht University researchers – Utrecht, NL	2023
<a href="https://www.uu.nl/en/news/marie-skłodowska-curie-actions-fellowships-for-five-utrecht-university-researchers">https://www.uu.nl/en/news/marie-skłodowska-curie-actions-fellowships-for-five-utrecht-university-researchers</a>	
UCF Today: Stories of Impact + Innovation Spotlight – UCF, FL, USA	2021
<a href="https://www.ucf.edu/news/ucf-doctoral-scholar-named-national-science-foundation-biology-fellow/">https://www.ucf.edu/news/ucf-doctoral-scholar-named-national-science-foundation-biology-fellow/</a>	
Graduate Dean's Citation – UofL, KY, USA	2020
Graduate Student Publication Award – UofL, KY, USA	2020
Graduate School of Arts and Sciences Student Spotlight – UofL, KY, USA	2020
<a href="https://louisville.edu/graduate/student-spotlight/student-spotlight-february-2020">https://louisville.edu/graduate/student-spotlight/student-spotlight-february-2020</a>	
Introductory Biology Lab Development Award – UofL, KY, USA	2019
Graduate Student Research Presentation Award – UofL, KY, USA	2019
Biology Department Service Award – UofL, KY, USA	2019
College of Arts and Science Student Profile – UofL, KY, USA	2016
<a href="https://louisville.edu/artsandsciences/academics/graduate-education/student-profiles/beckerson">https://louisville.edu/artsandsciences/academics/graduate-education/student-profiles/beckerson</a>	

## OUTREACH

### Community Science Initiative: the Zombie Fungus Foray, Orlando US

**-Creator-**

\*hyperlinks imbedded in the logos\*

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

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



#### K-12 Classroom Outreach:

2022	Amsterdam International Community School – Amsterdam, NL
2021	Wharton High School: National Honor Society – Tampa, FL, USA Freedom High School: Environmental Science Periods I-7 – Tampa, FL, USA Wharton High School: SPLASH Club, and Biology Sections I-6 – Tampa, FL, USA Mica Mountain High School: Sections III & VI – Tucson, AR, USA
2020	Jackson Heights Middle School: Ecology – Oviedo, FL, USA Oviedo High School: Sophomore Biology Sections 2, 3, 6, & 7 – Oviedo, FL, USA Oviedo High School: AP Biology Sections I & II – Oviedo, FL, USA



#### iNaturalist Curator:

2020-current	Website curator for the <i>Ophiocordyceps unilateralis</i> species complex
2020	The Zombie Fungus Foray Project Creator



#### Seminole County Parks Partnership:

2021	Chuluota Wilderness Area Guided Hike for Zombie Ants – Geneva, FL, USA
2021	Eco Camp: Grossology Week Guide to Zombie Ants – Geneva, FL, USA
2021	Eco Camp: Biology Bootcamp Guide to Zombie Ants – Geneva, FL, USA



#### Orlando Science Center Partnership:

2022	Otronicon: 3-day Alpha testing of ZombieAntVR with kids – Orlando, FL, USA
2021	Pumpkins and Protons Halloween Party Exhibit – Orlando, FL, USA
2019	Spooky Science Week Exhibit: Real-life Zombie Ants! – Orlando, FL, USA



#### stemCONNECT Partnership:

2021	Spooky Themed Month Virtual Presentation – Orlando, FL, USA Real-life Zombies and Where to Find Them
2021	EARTH DAY Virtual Presentation – Orlando, FL, USA Real-life Zombies and Where to Find Them



#### TikTok:

2021	@TheZombieFungusForay <a href="https://www.tiktok.com/@thezombiefungusforay?lang=en">https://www.tiktok.com/@thezombiefungusforay?lang=en</a>
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#### ZombieAntVR:

2022	UCF Gains in the Education of Math and Science Summer Camp – Orlando, FL, USA VR project demo for Weeks 1-2, 4-5: grades 5 <sup>th</sup> – 8 <sup>th</sup>
2020-2022	A virtual reality video game about the <i>Ophiocordyceps</i> life cycle. Project coordinator, story designer, voice director.

\* Now available for download on STEAM: [https://store.steampowered.com/app/2416150/Zombie\\_Ants\\_VR/](https://store.steampowered.com/app/2416150/Zombie_Ants_VR/)

### Other Outreach:

Museum of Natural Sciences in Brussels: International Microorganism Day – BE	2023
In collaboration with the Young Belgian Society for Microbiology	
Adaptation of our published research for Science Journal for Kids and Teens – TX, USA	2023
<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>	
Guest on Val 202's Frekvencja X show about "The Last of Us" – SI	2023
<a href="https://val202.rtvsllo.si/podcast/frekvencja-x/31057643/174941558">https://val202.rtvsllo.si/podcast/frekvencja-x/31057643/174941558</a>	
Guest on NPR's The Colin McEnroe Show about "The Last of Us" – CT, USA	2023
<a href="https://www.ctpublic.org/show/the-colin-mcenroe-show/2023-02-06/the-fungus-among-us">https://www.ctpublic.org/show/the-colin-mcenroe-show/2023-02-06/the-fungus-among-us</a>	



Correspondent for Inverse on the science behind “The Last of Us” – NY, USA <a href="https://www.inverse.com/science/last-of-us-hbo-zombie-science">https://www.inverse.com/science/last-of-us-hbo-zombie-science</a>	2023
Correspondent for Newsweek on the science behind “The Last of Us” – NY, USA <a href="https://www.newsweek.com/cordyceps-fungus-zombie-last-us-real-hbo-1774684">https://www.newsweek.com/cordyceps-fungus-zombie-last-us-real-hbo-1774684</a>	2023
Orlando MegaCon Presenter – FL, USA Examining the Science Behind Zombie Movies	2022
Orlando Taste of Science - Science Festival, Scientists Inc. – FL, USA Real-life Zombies and Where to Find Them	2022
 TikTok: @aBitofBiology <a href="https://www.tiktok.com/@abitofbiology">https://www.tiktok.com/@abitofbiology</a>	2021
Orlando MegaCon Panelist – FL, USA The Last Damn Zombie Science Panel You’ll Ever Need!	2021
Interview a Biologist – VT, USA with Stacey Grimaldo Garcia of Middlebury College	2021
Skype a Scientist Live: Orlando – FL, USA Spooky Science: Real Life Zombies and Where to Find Them <a href="https://www.youtube.com/watch?v=7WGJZG4DjjQ">https://www.youtube.com/watch?v=7WGJZG4DjjQ</a>	2021
Beer with a Scientist: Monnik Beer Company – KY, USA Our Friends the Fungi: The many types of fungi and the history of how we’ve used them	2020
Skype a Scientist 2020 Creekside Middle School: Sixth Grade Class – Bentonville, AR, USA  2019 Marie Curie Institute: Fourth and Fifth Grade Class – Amsterdam, NY, USA Corry Area High School: Ninth Grade Class – Corry, PA, USA Newark Central: Second Grade Class – Newark, NY, USA E.K. Powe Elementary School: First Grade Class (AKA the Sea Crew) – Durham, NC, USA Annunciation Catholic School: Seventh Grade Class – Denver, CO, USA	2019-2021
Guest Speaker at University of Louisville: Meet the Professor – KY, USA Science Information Literacy & Oral Communication	2019
Guest Speaker at Lexington Christian Academy High School – KY, USA The history of genetic modification of our food	2018
Guest Speaker at Lexington Christian Academy High School – KY, USA What is a GMO?	2016
ExBEERiment: Socialize with Science at the Louisville Science Center – KY, USA The science of brewing beer	2016

## REFERENCES

<b>Dr. Charissa de Bekker</b>	University of Central Florida, USA/ PI	<a href="mailto:A.m.debekker@uu.nl">A.m.debekker@uu.nl</a>
<b>Dr. Michael Perlin</b>	University of Louisville, USA/ PI	<a href="mailto:Michael.perlin@louisville.edu">Michael.perlin@louisville.edu</a>
<b>Dr. Tatiana Giraud</b>	Université Paris-Sud, FR/ Collaborator	<a href="mailto:Tatiana.giraud@u-psud.fr">Tatiana.giraud@u-psud.fr</a>
<b>Dr. Dominik Begerow</b>	Ruhr-Universität Bochum, DE/ Collaborator	<a href="mailto:Dominik.begrow@rub.de">Dominik.begrow@rub.de</a>
<b>Dr. Scott Gold</b>	USDA Georgia, USA/ Committee Member	<a href="mailto:Scott.gold@ARS.USDA.Gov">Scott.gold@ARS.USDA.Gov</a>