

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

Contact Information:



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Research:



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WCBeckerson/

Socials:



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@aBitofBiology

Languages: (CEFR)



English - Native



Spanish - A2



Dutch - A1

[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
- 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. **2nd Edition**
- Perlin MH, Beckerson WC, Gopinath A, Cobbs G. (2018). *Molecular and Cellular Genetics: Laboratory Studies*. San Diego, California United States: Cognella Academic Publishing. **1st Edition**

FUNDING

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

Marie Skłodowska-Curie Actions Postdoctoral Fellowship (MSCA): NL	(€203,464)	2022
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: I82485I

CONFERENCE PRESENTATIONS

Oral Presentations:

8th 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 aflatrem-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 *Microbotryum* 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, *Microbotryum violaceum*

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 *Microbotryum violaceum*

Kentucky Academy of Science Conference – KY, USA 2016
 Identifying unique small-secreted proteins in divergent species of the fungal pathogen complex *Microbotryum violaceum*

Ruhr-Universität Bochum *Microbotryum* Symposium – Bochum, DE 2016
 Analyzing the role of protein-protein interactions in host/pathogen co-evolution

Poster Presentations:

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:

Gordon Research Seminar: Cellular Molecular Fungal Biology 2024 Conference Chair	2022-2024
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
	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 3Ist FGC
 Kentucky Academy of Science 2014-2020

University Services:

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 331: Genetics and Molecular Biology
2 sections 110 min/class 20 & 21 students Twice/week Spring 2018
BIOL 331: Genetics and Molecular Biology
I 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 331: Genetics and Molecular Biology
2 sections 110 min/class 17 & 21 students Twice/week Spring 2017
BIOL 331: Genetics and Molecular Biology
I 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 AND AWARDS

UU News: MSCA Fellowships for five Utrecht University researchers – Utrecht, NL	2023
https://www.uu.nl/en/news/marie-skłodowska-curie-actions-fellowships-for-five-utrecht-university-researchers	
UCF Today: Stories of Impact + Innovation Spotlight – UCF, FL, USA	2021
https://www.ucf.edu/news/ucf-doctoral-scholar-named-national-science-foundation-biology-fellow/	
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
https://louisville.edu/graduate/student-spotlight/student-spotlight-february-2020	
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
https://louisville.edu/artsandsciences/academics/graduate-education/student-profiles/beckerson	

COMMUNITY INVOLVEMENT / OUTREACH

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

-Creator-

hyperlinks imbedded in the logos

Website: <https://thezombiefungusforay.com>

Twitter: <https://twitter.com/ZombieANTics>

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 https://www.tiktok.com/@thezombiefungusforay?lang=en
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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 5th – 8th

2020-2022

A virtual reality video game about the *Ophiocordyceps* life cycle.
Project coordinator, story designer, voice director.

* Now available for download on STEAM: https://store.steampowered.com/app/2+16150/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

<https://www.sciencejournalforkids.org>

Guest on Val 202's Frekvenca X show about "The Last of Us" – SI 2023

<https://val202.rtvslo.si/podcast/frekvenca-x/31057643/1749+1558>

Guest on NPR's The Colin McEnroe Show about "The Last of Us" – CT, USA 2023

<https://www.ctpublic.org/show/the-colin-mcenroe-show/2023-02-06/the-fungus-among-us>

Correspondent for Inverse on the science behind "The Last of Us" – NY, USA 2023

<https://www.inverse.com/science/last-of-us-hbo-zombie-science>

Correspondent for Newsweek on the science behind "The Last of Us" – NY, USA 2023

<https://www.newsweek.com/cordyceps-fungus-zombie-last-us-real-hbo-1774684>

Orlando Taste of Science - Science Festival, Scientists Inc. – FL, USA 2022

Real-life Zombies and Where to Find Them



TikTok:

@aBitofBiology <https://www.tiktok.com/@abitofbiology>

Orlando MegaCon Panelist – FL, USA 2021

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

Interview a Biologist – VT, USA 2021

with Stacey Grimaldo Garcia of Middlebury College

Skype a Scientist Live: Orlando – FL, USA 2021

Spooky Science: Real Life Zombies and Where to Find Them

<https://www.youtube.com/watch?v=7WVGJZG4DjQ>

Beer with a Scientist: Monnik Beer Company – KY, USA 2020

Our Friends the Fungi: The many types of fungi and the history of how we've used them

Skype a Scientist 2019-2021

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

Guest Speaker at University of Louisville: Meet the Professor – KY, USA 2019

Science Information Literacy & Oral Communication

Guest Speaker at Lexington Christian Academy High School – KY, USA 2018

The history of genetic modification of our food

Guest Speaker at Lexington Christian Academy High School – KY, USA 2016

What is a GMO?

ExBEERiment: Socialize with Science at the Louisville Science Center – KY, USA 2016

The science of brewing beer

LANGUAGE PROFICIENCIES

English

ILR level 5 – Native Proficiency

Dutch

CEFR level A1.1 – Limited Working Proficiency

Spanish

CEFR level A1.2 – Elementary Proficiency

*What is "[Common European Framework of Reference \(CEFR\)](#)?"

REFERENCES

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