

Chloe L. Lash
Curriculum Vitae

University of St. Francis
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EDUCATION

Doctor of Philosophy (August 2020)

University of Tennessee, Knoxville, TN

Dissertation: Incorporating the “Invisibles” in Ant Seed Dispersal: Microbial Mortality Agents in Myrmecochory

Advisor: Charles Kwit, Ph.D.

Bachelor of Science (May 2015)

Valparaiso University, Valparaiso, IN

Summa cum laude

Double Major, Biology and Chemistry

TEACHING EXPERIENCE

Assistant Professor of Biology (August 2020-present) University of St. Francis, Joliet, IL

Courses (past or in progress):

Biol 150: Fundamentals of Ecology and Evolution- Fall 2020

Biol 151: Beginning Investigative Experience in Biology- Spring 2021, Fall 2020

Biol 345: Perspectives in Evolution- Spring 2021

Biol 361: Ecology- Fall 2020

Biol 410/Chem 410: Senior Seminar- Spring 2021

Envs 105: Environment and Humanity- Fall 2020

Envs 120: Earth Science- Spring 2021

Graduate Teaching Assistant (August 2017-August 2020) University of Tennessee, Knoxville

Courses (*Primary Instructor):

Bio 310: Evolution, Disease, and Medicine- Spring 2020

Bio 167: Honors: Skills of Biological Investigation*- Fall 2018, Fall 2019

EEB 426: Plant-Animal Interactions- Spring 2019

Bio 150: Biology Literacy- Spring 2018

Bio 158: Honors Organismal and Ecological Biology- Fall 2017

Guest Lectures (2017-2020) University of Tennessee, Knoxville, Department of Ecology and Evolutionary Biology

March 6, 2019 EEB 426: Plant-Animal Interactions- Seed Dispersal Effectiveness

Oct 3, 2017 EEB 461: Global Change Ecology- Community Changes

Teaching Workshops/Certifications

2019-2020 Scientific Teaching Fellow- Summer Institutes on Scientific Teaching

2019 Scholar Level Certification- Center for the Integration of Research, Teaching and Learning (CIRTL), University of Tennessee, Knoxville

2019 Workshop Co-leader: Grading with Rubrics, Faculty Teaching Professional Development, University of Tennessee, Knoxville

Supplemental Instruction Leader (August 2014-May 2015) Valparaiso University Academic Success Center

Courses:

Spring 2015 Biology 172- Diversity of Life

Fall 2014 Biology 171- Unity of Life

PUBLICATIONS (*Undergraduate Co-author)

1. **Lash, C.L.**, Fordyce J., Kwit C. 2020. Nest substrate, more than ant activity, drives fungal pathogen community dissimilarity in seed-dispersing ant nests. *Oecologia*, 194:649–657 <https://doi.org/10.1007/s00442-020-04796-5>
2. **Lash, C.L.**, Sturiale S.*, Kisare, S.*, Kwit, C. 2020. The effects of a myrmecochore-produced chemical on entomopathogenic fungal growth and seed-dispersing ant survival rates and foraging patterns. *Insectes Sociaux*, 67: 495–505 <https://doi.org/10.1007/s00040-020-00786-1>
3. C.L. Searle, M.H. Cortez, K.K. Hunsberger, D.C. Grippi, I.A. Oleksy, C.L. Shaw, S.B. de la Serna, **C.L. Lash**, K.L. Dhir, and M.A. Duffy. 2016. Population density, not host competence, drives patterns of disease in an invaded community. *The American Naturalist*, 188(5):554-566 <https://doi.org/10.1086/688402>

PROFESSIONAL PRESENTATIONS

Conference Presentations:

Lash, C., Cregger, M., and Kwit, C. 2020. Seed-dispersing ants alter seed coat microbiomes. Organized Oral Session: Uncovering Mechanisms and Patterns in an Ecologically Important Interaction. Ecological Society of American Annual Meeting

Lash, C., and Kwit, C. 2019. Ants, plants and fungi: Active ant nests remain low in plant pathogenic fungi throughout the myrmecochore fruiting season. Entomological Society of America Annual Meeting

Gwinn, K., **Lash, C.**, Albert, J., and Kwit, C. 2019 Alkaloids and insect-plant interactions. Eastern Branch of the Entomological Society of America Annual Meeting

Lash, C., Martin, B., Davis A., Kisare, S., Kwit, C. 2019. Social Immunity in Ants: Interplay of Immune Priming, Colony Size and Grooming Behaviors. Ecological Society of America Annual Meeting

Conference Posters:

Lash, C. and Kisare, S. 2017. Investigating the antimicrobial benefits of *Sanguinaria canadensis* on *Aphaenogaster* ants infected with *Beauveria bassiana*. Association of Southeastern Biologists Meeting

Lash, C. and Kwit, C. 2016. Three's Company: chemical and microbial components of myrmecochory. Cynthia Peterson Poster Competition University of Tennessee

Lash, C., Polakowski, L., Rodgers, K., and Eberhardt, L. 2015. Bird dispersal of native and non-native fruiting plants in a Northwest Indiana nature preserve. Midwest Ecology and Evolution Conference

Lash, C. and Yanoviak, S. 2014. The effects of vines on ant foraging behavior. Kentucky Academy of Science

Invited Talks:

Lash, C. 2020. Mountain Lake Biological Station Summer Seminar. *postponed due to COVID-19

Lash, C. 2016. Ants in your plants: chemical and microbial components of myrmecochory. Mountain Lake Biological Station Summer Seminar Series

Presentations by Undergraduate Researchers (*indicates undergraduate presenter):

Albert, J.*, Lash, C., Gwinn, K., and Kwit, C. 2019. Effects of ant chemical secretions on deterring

myrmecochore seed mortality agents. Association of Southeastern Biologists Meeting.
Kisare, S.* and Lash, C. 2017. Investigating the antimicrobial benefits of *Sanguinaria canadensis* on *Aphaenogaster* ants infected with *Beauveria bassiana*. Association of Southeastern Biologists Meeting.

RESEARCH GRANTS

Total Funding Obtained: \$25,261 (external funding:\$14,223)

- 2018 University of Tennessee Herbarium, Breedlove, Dennis Fund for Student Botanical Field Experiences (\$1000)
- 2018 Phi Kappa Phi Love of Learning Award (\$500)
- 2018 University of Tennessee- Student/Faculty Research Award (\$3900)
- 2018 Mountain Lake Biological Station- Margaret Walton Scholarship (\$3000)
- 2017 University of Tennessee, Ecology and Evolutionary Biology Research Fund (\$1800)
- 2017 American Philosophical Society- Lewis and Clark Fund for Exploration and Field Work (\$3700)
- 2017 University of Tennessee- Student/Faculty Research Award (\$3288)
- 2017 Mountain Lake Biological Station- Johns Creek Endowment (\$3523)
- 2016 University of Tennessee, Ecology and Evolutionary Biology Research Fund (\$1050)
- 2016 Mountain Lake Biological Station- Horton Hobbs Endowment (\$3500)

UNDERGRADUATE MENTORSHIP

Research Project Mentor

(*NSF REU student, ●Honors Thesis, °Co-advisor)

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|--------------------------|---|
| Fall 2020-current | Alana Messier°- Medical Lab Science, University of Tennessee, Knoxville |
| Summer 2020 | Anne Kinkopf°- BiGG Data REEU (USDA) in Bioinformatics, University of Tennessee, Knoxville |
| Summer 2020 | Nicole Buerger°- BiGG Data REEU (USDA) in Bioinformatics, University of Tennessee, Knoxville |
| Spring 2019 | Brianna Reynolds°- Ecology and Evolutionary Biology, University of Tennessee, Knoxville |
| Summer 2018- Spring 2019 | Jamie Albert*●°- Mountain Lake Biological Station, Ecology and Evolutionary Biology, University of Tennessee, Knoxville |
| Summer 2018 | Austin Davis*- Mountain Lake Biological Station |
| Spring 2018 | Parker Stevenson- Neurobiology, University of Tennessee, Knoxville |
| Summer 2017 | Bruce Martin*- Mountain Lake Biological Station |
| Fall 2016- Spring 2017 | Samantha Sturiale*- Mountain Lake Biological Station |
| | Kirsten Salonga- Ecology and Evolutionary Biology, University of Tennessee, Knoxville |
| Summer 2016 | Sierra Sullivan- Psychology, University of Tennessee, Knoxville |
| Spring 2016 | Samantha Kisare*- Mountain Lake Biological Station |
| | Elizabeth Evans- Forestry, Wildlife and Fisheries, University of Tennessee, Knoxville |

FELLOWSHIPS, AWARDS AND HONORS

- 2020 Chancellor's Honors Graduate Student Teaching Award, University of Tennessee, Knoxville
- 2020 Graduate Student Senate Excellence in Graduate Student Teaching, University of Tennessee, Knoxville

2019	Shipley-Swann Fellowship, The Graduate School, University of Tennessee, Knoxville (\$5000)
2019	2 nd Place Presentation Award, Women in STEM Research Symposium, University of Tennessee, Knoxville
2019	Award of Excellence for Science Writing Graduate Division, Blakely Writing Competition, Society for Technical Communication, East Tennessee Chapter
2018	Award for Best Progress Toward Dissertation, University of Tennessee, Dept of Ecology and Evolutionary Biology
2018	Award of Excellence for Technical and Professional Communication Graduate Division, Blakely Writing Competition, Society for Technical Communication, East Tennessee Chapter
2017	Honorable Mention, National Science Foundation Graduate Research Fellowship Program
2017	Graduate Student Senate Research Award, University of Tennessee, Knoxville
2016	Honorable Mention, National Science Foundation Graduate Research Fellowship Program
2015-2019	University of Tennessee Chancellor's Fellowship (\$5000/yr)
2015- 2017	Program for Excellence and Equity in Research (PEER) Scholar (tuition+ \$25,000/year)

UNIVERSITY SERVICE

2020-present The Charlotte Codo Prairie Committee Member

PROFESSIONAL SERVICE

2019	Article reviewer for <i>Insectes Sociaux</i>
2019; 2016-2017	KidsU Instructor, University of Tennessee, Knoxville. Co-taught a week-long summer course to 4 th -8 th graders
2019	Southern Appalachian Science and Engineering Fair. Judged science fair projects in environmental science for 6 th -8 th graders
2018	Undergraduate Affairs Committee Graduate Representative, University of Tennessee, Knoxville. Elected representative.
2017-2020	EEB Mentoring Program Coordinator, University of Tennessee, Knoxville. Co-coordinator for mentoring program between graduates and undergraduates
2016- 2020	Engaging Knoxville in Ecology and Evolution (EKEE). Co-founder and school outreach coordinator.
2016-2017	Graduate Researchers in Ecology, Biology and Evolution (GREBE) secretary, University of Tennessee, Knoxville.

PROFESSIONAL/HONORS SOCIETIES

2019-current	Ecological Society of America
2019-2020	Entomological Society of America
2017-2018	Association of Southeastern Biologists
2017-2020	Phi Kappa Phi
2014-current	Phi Beta Kappa