

Curriculum Vitae  
**Chelsea Nicole Miller**

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**PhD Candidate**

University of Tennessee, Knoxville  
Knoxville, Tennessee, USA  
Department of Ecology and Evolutionary Biology  
*Adviser:* Dr. Charles Kwit

**Website:** chelseanicolemiller.com

**EDUCATION:**

- 2014 - **PhD**, University of Tennessee, Knoxville  
*Dissertation:* Abiotic and biotic drivers of narrow endemism in *Trillium* of the southeastern US  
*Expected graduation date:* May 2020  
*Adviser:* Dr. Charles Kwit
- 2009 - 2013 **BA**, Magna Cum Laude, University of Central Arkansas, Biology  
*Thesis:* The impacts of human presence on endemic rainforest animals: ecotourism as a solution to conflict in Northeastern Madagascar.  
*Adviser:* Dr. Sally Entrekin

**PUBLICATIONS:**

- Miller, C. N.**, H. Brabazon, I. M. Ware, N. H. Kingsley, and J. M. Budke. 2018. Bringing an Historic Collection into the Modern Era: Curating the J. K. Underwood Seed Collection at the University of Tennessee Herbarium (TENN). *Collection Forum* 32(1-2): 14-30.
- Miller, C. N.**, and C. Kwit. 2018. Overall seed dispersal effectiveness is lower in endemic *Trillium* species than in their widespread congeners. *American Journal of Botany* 105(11): 1-11.
- Valenta, K., **C. N. Miller**, S. K. Monckton, S. A. Styler, D. J. Jackson, A. D. Melin, C. A. Chapman and M. J. Lawes. 2016. Fruit ripening signals and cues in a Madagascan dry forest: haptic indicators reliably indicate fruit ripeness to dichromatic lemurs. *Evolutionary Biology*, 1-12.

**IN REVIEW AND IN PREP:**

- Miller, C. N.**, S. R. Whitehead, and C. Kwit. 2019. Composition of elaiosome phytochemical profiles and fatty acid concentrations drive seed disperser preference in myrmecochorous species of *Trillium*. In prep.

Kwit, C., M. Patton, **C.N. Miller**, C.L. Lash. 2019. Redirecting animal-mediated seed dispersal with metabolomes and microbiomes. In prep.

### **CONTRIBUTED TALKS AND POSTERS:**

- 2019 5<sup>th</sup> Annual Women in STEM Symposium, Knoxville, TN. 2019. “Elaiosome chemical attributes may explain disperser preference for the seeds of widespread *Trillium* species compared to their co-occurring endemic congeners.” [**Poster Presentation, Published Abstract**]
- 2018 103<sup>rd</sup> Annual Meeting of the Ecological Society of America, New Orleans, LA. 2018. “Comparisons of seed dispersal effectiveness between sympatric endemic and widespread *Trillium* congeners in the southeastern US.” [**Podium Presentation, Published Abstract**]
- 2017 78<sup>th</sup> Annual Meeting of the Association of Southeastern Biologists Conference, Montgomery, AL. 2017. “Ant-seed dispersal and rarity in southeastern US *Trilliums*.” [**Podium Presentation, Published Abstract**]
- 2015 Natural Areas Association Conference, Little Rock, AR. 2015. “Plant advantages in myrmecochory: redirecting directed dispersal.” [**Podium Presentation, Published Abstract**]
- 2013 University of Central Arkansas annual poster symposium, Conway, AR. 2013. “Changes in aquatic macroinvertebrate community structure along a longitudinal gradient in a mixed land use catchment.” [**Poster Presentation**]

### **FELLOWSHIPS AND SCHOLARSHIPS:**

- 2019 - 2020 Oscar Roy Ashley Graduate Fellowship, University of Tennessee, Knoxville (\$4,000)
- 2017 - 2018 TENN Herbarium Graduate Research Assistantship (\$10,320)
- 2014 - 2020 Graduate Teaching Assistantship, University of Tennessee, Knoxville (\$117,500)
- 2009 - 2013 Norbert O. Schedler Honors College Scholarship, University of Central Arkansas (\$65,000)

### **RESEARCH GRANTS:**

- 2018 L.R. Hesler Herbarium Support Fund 2018 Student Research Award (\$1,822.75)
- 2017 Ecology and Evolutionary Biology Department Award, University of Tennessee, Knoxville (\$300)
- 2016 Botanical Society of America Graduate Student Research Award (\$500)
- 2015 Ecology and Evolutionary Biology Departmental Award, University of Tennessee, Knoxville, (\$700)

2015 Catherine H. Beattie Fellowship, Garden Club of America (\$4,500)

### **AWARDS AND HONORS:**

2019 Ecological Society of America Student Section Travel Grant (\$75)  
2019 Graduate Student Council Travel Award, University of Tennessee, Knoxville (\$400)  
2019 Plant Research Center Travel Award, University of Tennessee, Knoxville (\$500)  
2019 GREBE Travel Award (\$100)  
2018 Graduate Student Council Travel Award, University of Tennessee, Knoxville (\$350)  
2018 Plant Research Center Travel Award, University of Tennessee, Knoxville (\$500)  
2017 Association of Southeastern Biologists Graduate Student Support Award (\$250)  
2017 Plant Research Center Travel Award, University of Tennessee, Knoxville (\$640)  
2017 GREBE Travel Award (\$90)  
2015 Graduate Student Council Travel Award, University of Tennessee, Knoxville (\$450)  
2012 Travel Abroad Grant, University of Central Arkansas (\$2,500)  
2011 Travel Abroad Grant, University of Central Arkansas (\$3,000)

### **WORKSHOPS:**

2018 ESA2018 ComSciCon Workshop (5 August, 2018).  
2018 "Generalized Joint Attribute Modeling (GJAM)." James Clark. (January 25, 2018).  
2017 Joint MBI-NIMBioS-CAMBAM Summer Graduate Program, "Connecting Models with Biological Data." Competitive entry program. (June 19-23, 2017).  
2017 TAG (TN-AL-GA) Plant Conservation Alliance Meeting. (May 18, 2017).  
2016 "GEOLocate Software Tutorial (Tulane University)." SERNEC at the Association of Southeastern Biologists meeting. (31 March, 2016).

### **PROFESSIONAL RESEARCH POSITIONS:**

2013 - 2014 Assistant Natural Resources Manager, Camp Robinson Military Base, North Little Rock, AR  
2013 Waterbird Technician, Virginia Department of Game and Inland Fisheries  
2012 Biological Research Assistant, Masoala National Park, Madagascar  
2009-2013 Biological Research Assistant, Entekin Aquatic Ecology Lab, University of Central Arkansas

### **TEACHING AND RESEARCH ASSISTANTSHIP EXPERIENCES:**

Fall 2019 Bio 269 [Ecology Field Lab] Head Laboratory Instructor, University of Tennessee, Knoxville.  
Summer 2019 Bio 269 [Ecology Field Lab] Laboratory Instructor, University of Tennessee, Knoxville.  
Spring 2019 Bio 269 [Ecology Field Lab] Laboratory Instructor, University of Tennessee,

	Knoxville.
Fall 2018	Bio 260 [Ecology Lecture] Lecture Teaching Assistant, University of Tennessee, Knoxville.
Summer 2018	Bio 101 [Introduction to Biology] Laboratory Instructor, University of Tennessee, Knoxville.
Spring 2018	UT Herbarium (TENN) Graduate Research Assistant, University of Tennessee, Knoxville.
Fall 2017	Bio 115 [Introduction to Plant Diversity] Laboratory Instructor, University of Tennessee, Knoxville.
Spring 2017	EEB 426 [Plant-Animal Interactions] Lecture Teaching Assistant, University of Tennessee, Knoxville.
Fall 2016	Bio 101 [Introduction to Biology] Laboratory Instructor, University of Tennessee, Knoxville.
Spring 2016	Bio 102 [Introduction to Biology II] Laboratory Instructor, University of Tennessee, Knoxville.
Fall 2015	Bio 150 [Organismal and Ecological Biology] Laboratory Instructor, University of Tennessee, Knoxville.
Spring 2015	Bio 150 [Organismal and Ecological Biology] Laboratory Instructor, University of Tennessee, Knoxville.
Fall 2014	Bio 101[Introduction to Biology] Laboratory Instructor, University of Tennessee, Knoxville.

### **ACADEMIC AND OUTREACH SERVICE:**

2019	Kids U Course Leader, University of Tennessee, Knoxville, TN. “Vertebrate Zoology.” Co-taught a week-long summer course in vertebrate zoology for 4 <sup>th</sup> – 8 <sup>th</sup> graders.
2019	Southern Appalachian Science and Engineering Fair Judge, UTIA, Knoxville, TN.
2018	Kids U Course Leader, University of Tennessee, Knoxville, TN. “Snakes Alive!” Co-taught a week-long summer course in herpetology for 4 <sup>th</sup> - 6 <sup>th</sup> graders.
2017-2018	Graduate Researchers in Evolutionary Biology and Ecology (GREBE) President, University of Tennessee, Knoxville, TN. Elected representative. Organized and led regular GREBE meetings; organized professional development workshops and post-doctoral researcher panels; managed tri-annual GREBE Travel Awards for graduate students.
2016-2017	Engaging Knoxville in Ecology and Evolutionary Biology (EKEE) Member, University of Tennessee, Knoxville, TN. Organized and participated in community outreach activities, including hosting a Farmers’ Market booth and elementary/middle school educational experiences.
2016-2017	Graduate Affairs Committee Representative, University of Tennessee, Knoxville, TN. Elected representative. Met monthly to discuss graduate student concerns and requirements for the graduate academic handbook. Liaison between Departmental faculty members and graduate students.
2015-2016	Ecology and Evolutionary Biology Departmental Seminar Committee Representative, University of Tennessee, Knoxville, TN. Elected representative. Organized weekly Departmental seminars with outside academic and non-academic speakers.

## **ASSOCIATION MEMBERSHIPS:**

2018-ongoing	Ecological Society of America
2017-2018	Association of Southeastern Biologists
2016-ongoing	Botanical Society of America
2015-2016	International Primatological Society

## **REFERENCES:**

Charles Kwit, PhD  
UTK Assistant Professor, Academic Adviser  
[ckwit@utk.edu](mailto:ckwit@utk.edu)  
(865) 809-5337

Jessica Budke, PhD  
UTK Assistant Professor & Herbarium Director, Research Advisor  
[jbudke@utk.edu](mailto:jbudke@utk.edu)  
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Sally Entrekin, PhD  
VT Associate Professor, Undergraduate Research Adviser  
[sallye@vt.edu](mailto:sallye@vt.edu)  
(540) 231-5978