

Curriculum Vitae

**Chelsea Nicole Miller**

2519 Cedar Lane. Knoxville, TN 37918. (815) 901-6801. cmill107@vols.utk.edu.

---

**PhD Candidate**

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

**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 Entekin

**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. Elaiosome chemistry may explain ant preference for the seeds of widespread *Trillium* species compared to endemic congeners. 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]**

## **AWARDS, HONORS AND FELLOWSHIPS:**

- 2019-2020 Oscar Roy Ashley Graduate Fellowship, University of Tennessee, Knoxville (\$4,000)
- 2018 Graduate Student Council Travel Award, University of Tennessee, Knoxville (\$350)
- 2018 Plant Research Center Travel Award, University of Tennessee, Knoxville (\$500)
- 2017-2018 TENN Herbarium Graduate Research Assistantship (\$10,320)
- 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)
- 2014-2019 Graduate Teaching Assistantship, University of Tennessee, Knoxville (\$97,500)
- 2012 Travel Abroad Grant, University of Central Arkansas (\$2,500)
- 2011 Travel Abroad Grant, University of Central Arkansas (\$3,000)
- 2009-2013 Norbert O. Schedler Honors College Scholarship, University of Central Arkansas (\$65,000)

## **RESEARCH GRANTS:**

- 2017 L.R. Hesler Herbarium Support Fund 2018 Student Research Award (\$1,822.75)
- 2017 Ecology and Evolutionary Biology Department Award, University of Tennessee,

- 2016 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)

### **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.” (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:**

- 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  
 2009-2012 Biological Research Assistant, Aquatic Ecology Lab, University of Central Arkansas

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

- Spring 2019 Bio 269 Laboratory Instructor, University of Tennessee, Knoxville.  
 Fall 2018 Bio 260 Lecture Teaching Assistant, University of Tennessee, Knoxville.  
 Summer 2018 Bio 101 Laboratory Instructor, University of Tennessee, Knoxville.  
 Spring 2018 UT Herbarium (TENN) Graduate Research Assistant, University of Tennessee, Knoxville.  
 Fall 2017 Bio 115 Laboratory Instructor, University of Tennessee, Knoxville.  
 Spring 2017 EEB 426 Lecture Teaching Assistant, University of Tennessee, Knoxville.  
 Fall 2016 Bio 101 Laboratory Instructor, University of Tennessee, Knoxville.  
 Spring 2016 Bio 102 Laboratory Instructor, University of Tennessee, Knoxville.  
 Fall 2015 Bio 150 Laboratory Instructor, University of Tennessee, Knoxville.  
 Spring 2015 Bio 150 Laboratory Instructor, University of Tennessee, Knoxville.  
 Fall 2014 Bio 101 Laboratory Instructor, University of Tennessee, Knoxville.

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

- 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 -ong 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)  
 (865) 974-6204

Sally Entekin, PhD  
 VT Associate Professor, Undergraduate Research Adviser  
[sallye@vt.edu](mailto:sallye@vt.edu)  
 (540) 231-5978  
 (501) 358-9649

