

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

EDUCATION:

- 2014- **PhD**, University of Tennessee, Knoxville
Dissertation: Coarse- and fine-scale investigations of endemism in southeastern *Trillium*
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.**, 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.

PENDING PUBLICATION:

- Miller, C.N.**, H. Brabados, I. Ware, N.H. Kingsley, J. Budke. 2018. Bringing an historic collection into the modern era: curating the J. K. Underwood Seed Collection at the University of Tennessee Herbarium (TENN). Accepted in *Collection Forum*.

IN REVIEW AND IN PREP:

- Kwit, C., M. Patton, **C.N. Miller**, C.L. Lash. 2018. Redirecting animal-mediated seed dispersal with metabolomes and microbiomes. In review.

CONTRIBUTED TALKS AND POSTERS:

- 2018 103rd 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 78th 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 AND HONORS:

- 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)

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, 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:

Assistant Natural Resources Manager, Camp Robinson Military Base, North Little Rock, AR (2014)

Responsible for the field and lab components of management/research projects being conducted by the Natural Resources Department. Performed aquatic macroinvertebrate sampling, rapid bio-assessment of streams, small mammal trapping, herpetological sampling, privet management, and game species monitoring. Participated in seasonal wild land management burns performed by the Forestry Department and participation in pest management duties Supervisor/Natural Resources Manager: Brian Mitchell.

Biological Technician, Virginia Department of Game and Inland Fisheries (2013)

Population monitoring of waterbirds and wading birds using nest, egg, chick, and incubating adult counting techniques and band resighting. Required use of binoculars and sighting scope in the field, bird identification skills, GPS use, and hand-capture of immature birds for banding.

Biological Research Assistant, Masoala National Park, Madagascar (2012)

Studied population dynamics of endemic carnivores in the rainforests of Northeastern Madagascar. Involved interacting with local Malagasy WCS workers and civilians. Fieldwork included setting up camera trap transects, requiring knowledge of camera use, use of GPS units, and performance of standard habitat transects. Performed lemur transects and small mammal trapping. PI: Zach J. Farris.

Biological Research Assistant, University of Central Arkansas (2011)

Studied leaf decomposition in wetland habitats. Involved planting leaf bags in transects, the use of HOBO loggers, and nutrient sampling techniques in the lab. PI: Allen Dodd

Biological Research Assistant, University of Central Arkansas (2010-2012)

Participated in studies of macroinvertebrates in the sediment of Gulf streams in northwest AR, with emphasis on effects of natural gas fracking. Recorded aquatic habitat transects and collected

aquatic samples. Learned to identify aquatic insects. PI: Nicki Jensen, Julie Kelso.

Biological Research Assistant, University of Central Arkansas (2009-2010)

Studied movement patterns of Cyprinidae in intermittent Ozark streams of the Sylamore River in AR. Collected, tagged, and recorded mass, length, and sex of fish. PI: Richard Walker.

Biological Research Assistant, University of Central Arkansas (2009)

Assisted in a follow-up study to the 2009 Arkansas Game and Fish snakehead eradication in Brinkley, AR. Required identification of common freshwater fishes. PI: Clint Johnson.

TEACHING AND RESEARCH ASSISTANTSHIP EXPERIENCES:

Teaching Assistant, University of Tennessee, Knoxville, TN USA (Fall 2014)

Led three weekly general biology labs for a non-majors introductory course to biology (Bio 101). Marked assignments and managed grades.

Teaching Assistant, University of Tennessee, Knoxville, TN USA (Spring 2015)

Led three weekly discussion classes for an introductory majors course to organismal and ecological biology (Bio 150). Marked assignments and managed grades.

Teaching Assistant, University of Tennessee, Knoxville, TN USA (Fall 2015)

Led three weekly discussion classes for an introductory majors course to organismal and ecological biology (Bio 150). Marked assignments and managed grades.

Teaching Assistant, University of Tennessee, Knoxville, TN USA (Spring 2016)

Led two weekly general biology labs for a non-majors introductory course to biology (Bio 102). Marked assignments and managed grades.

Teaching Assistant, University of Tennessee, Knoxville, TN USA (Fall 2016)

Led two weekly general biology labs for a non-majors introductory course to biology (Bio 101). Marked assignments and managed grades.

Teaching Assistant, University of Tennessee, Knoxville, TN USA (Spring 2017)

Performed teaching assistant duties for an upper-level EEB undergraduate course, Plant-Animal Interactions (EEB 426). Marked assignments and managed grades.

Teaching Assistant, University of Tennessee, Knoxville, TN USA (Fall 2017)

Performed teaching assistant duties for an introductory majors course to plant diversity and botany (Bio 115). Designed course curriculum, wrote exams, designed and carried out lectures, marked assignments, and managed grades.

UT Herbarium (TENN) Graduate Research Assistant, University of Tennessee, Knoxville, TN USA (Spring 2017). Curated and digitized a historic seed collection.

Teaching Assistant, University of Tennessee, Knoxville, TN USA (Summer 2018). Led one weekly general biology lab for a non-majors introductory course to biology (Bio 101). Marked assignments and managed grades.

ACADEMIC AND OUTREACH SERVICE:

Kids U Course Leader, University of Tennessee, Knoxville, TN USA (Summer 2018). “Snakes Alive!” Co-taught a week long summer course in herpetology for 4th-6th graders.

Graduate Researchers in Evolutionary Biology and Ecology (GREBE) President, University of Tennessee, Knoxville, TN USA (Fall 2017-Spring 2018). 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.

Engaging Knoxville in Ecology and Evolutionary Biology (EKEE) Member, University of Tennessee, Knoxville, TN, USA (Fall 2016-Spring 2017). Organized and participated in community outreach activities, including hosting a Farmers’ Market booth and elementary/middle school educational experiences.

Graduate Affairs Committee Representative, University of Tennessee, Knoxville, TN, USA (Fall 2016-Spring 2017). Elected representative. Met monthly to discuss graduate student concerns and requirements for the graduate academic handbook. Liaison between Departmental faculty members and graduate students.

Ecology and Evolutionary Biology Departmental Seminar Committee Representative, University of Tennessee, Knoxville, TN USA (Fall 2015-Spring 2016). Elected representative. Organized weekly Departmental seminars with outside academic and non-academic speakers.

ASSOCIATION MEMBERSHIPS:

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

REFERENCES:

Charles Kwit, PhD
UTK Assistant Professor, Academic Adviser
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Sally Entrekin, PhD
UCA Biology Assistant Instructor, Researcher Coordinator
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Zach J. Farris, PhD
Virginia Tech University Assistant Professor, Project leader in Madagascar
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