

Lisa Chamberland

University of Vermont, Department of Biology

120A Marsh Life Science Building

(860) 882-8201 chamberlandlisa8@gmail.com

Github <https://github.com/lchamberland> Website uvm.edu/~lchambe1

Research Interests

My research explores the interplay between long-distance dispersal and vicariance in shaping the evolutionary history and biogeography of Deinopidae, the net-casting spiders.

Education

2015-present **PhD Student**, University of Vermont, Burlington, VT

Advisor: Dr. Ingi Agnarsson

Title: From Gondwana to GAARlandia: Evolutionary history and biogeography of the net-casting spider (Deinopidae)

2009-2013 **BA Biology and Anthropology**, University of Vermont, Burlington, VT

Research Experience

2015-present **Dissertation Research**, [Agnarsson Lab](#), University of Vermont

Advisor: Ingi Agnarsson Tested the role of geological events including breakup of Gondwana and the presence of the GAARlandia land bridge in the dispersal and diversification of Deinopidae.

2013-2015 **Laboratory Research Technician**, [Agnarsson Lab](#), University of Vermont

Advisor: Ingi Agnarsson Performed molecular work (DNA extractions and barcoding, PCR) and data analyses for focal arachnid genera in the Caribbean to test dispersal hypotheses.

Publications

Chamberland, L., McHugh, A.K., Kechejian, S., Binford, G., Bond, J.E., Coddington, J., Dolman, G., Hamilton, C.A., Harvey, M.S., Kuntner, M., Agnarsson, I. (2018) From Gondwana to GAARlandia: Evolutionary history and biogeography of *Deinopsis* the ogre-faced spiders. *Journal of Biogeography*

Chamberland, L., Basco, A., Cranz, A., and Agnarsson, I. Phylogeography and morphological variation in Caribbean *Gasteracantha cancriformis* and evidence for a second American species (**manuscript in prep.**)

Awards and Grants

20169 UVM Mini Travel Grant - \$450

2018 American Arachnological Society Fund for Systematics Research - \$1000

2016 Sigma Xi Grant in Research Award - \$1000

2016 UVM Mini Travel Grant - \$450

Teaching

2018 **Lecturer**, Field Zoology

	Filled in for as lecturer Professor Agnarsson while he was on leave from October 1 – December 15
2016-2018	Guest Lecturer , Field Zoology, University of Vermont
2018	Assistant Teacher , 9 th Grade Biology, Vermont Commons School <i>Professor: Peter Goff</i>
2015-2018	Graduate Teaching Assistant , Field Zoology lab, University of Vermont
2015-2019	Graduate Teaching Assistant , Intro to Biology lab, University of Vermont
2016	Graduate Teaching Assistant , Ecology and Evolution lab, University of Vermont
2013-2014	Upward Bound Teacher , Spiders of Vermont course, University of Vermont <i>Co-taught with Anne McHugh and Carol Pfeiffer high school students summer course</i>

Presentations

2018	Oral presentation, 21 st International Congress of Arachnology, Canterbury, NZ <i>From Gondwana to GAARlandia: Evolutionary history and biogeography of the ogre-faced spiders (Deinopis)</i>
2018	Oral presentation, UVM Student Research Conference, Burlington, VT <i>From Gondwana to GAARlandia: Evolutionary history and biogeography of the ogre-faced spiders (Deinopis)</i>
2017	Biolunch , UVM Department of Biology, Burlington, VT <i>Historical biogeography and trait evolution within the net-casting spiders (Deinopidae)</i>
2016	Biolunch , UVM Department of Biology, Burlington, VT <i>Phylogeography of Gasteracantha and evidence for a new North American species</i>
2016	Oral presentation, UVM Student Research Conference, Burlington, VT <i>Phylogeography and morphological variation in Caribbean Gasteracantha cancriformis and evidence for a new North American species</i>
2016	Poster presentation, 20 th International Congress of Arachnology, Golden, CO <i>From Gondwana to GAARlandia: Global biogeography of ogre-faced spider mirrors geologic history</i>
2015	Biolunch , UVM Department of Biology, Burlington, VT <i>From Gondwana to GAARlandia: Global biogeography of ogre-faced spider mirrors geologic history</i>

Outreach

2014-2018	Mentor , Agnarsson Lab, University of Vermont, Burlington, VT <i>Trained on molecular methods, phylogentic/omic and biogeographic data analyses, and identifying and photographing specimens</i>
2018	Tess Ruddy, high school student, Vermont Commons School <i>Exploring the diversity and dispersal history of Caribbean Cyclosa</i>
2018	Alli Nemrow, undergraduate student <i>Exploring the diversity and dispersal history of Caribbean Cyclosa</i>
2016-2018	Patrick Weinmerk, undergraduate student and lab technician <i>Exploring the diversity and dispersal history of Caribbean Cyclosa</i>
2016-2017	Sarah Kechejian and Annie Howard, undergraduate students <i>From Gondwana to GAARlandia: Evolutionary history and biogeography of the ogre-faced spiders (Deinopis)</i>

2015	<p>Austin Dziki, undergraduate student</p> <p><i>Spintharus flavidus in the Caribbean—a 30 million year biogeographical history and radiation of a 'widespread species'</i></p> <p>Stephanie LeQuier, undergraduate student</p> <p><i>Phylogeography of a good Caribbean disperser: Argiope argentata (Araneae, Araneidae) and a new 'cryptic' species from Cuba</i></p>
2014-2015	<p>Alma Basco and Amanda Crastz, high school researchers from Puerto Rico</p> <p><i>Phylogeography and morphological variation in Caribbean Gasteracantha cancriformis and evidence for a new North American species</i></p>

Membership

2016-2019	American Arachnological Society
2016, 2018	International Society of Arachnology

Skills

Computing

- *Phylogenetics* - Bayesian (MrBayes, BEAST) and Maximum likelihood (RAxML)
- *Biogeography* - BioGeoBEARS, LaGrange
- *Sequence analysis* - Mesquite
- *R and (R)Markdown* – Data analysis/visualization and word processing
- *HTML* – Website development
- *Microsoft Office* – Data preparation, organization, and word processing

Laboratory

- DNA extraction for standard Sanger sequencing and Next Generation sequencing (Anchored Hybrid Enrichment), PCR, gel electrophoresis
- Taxonomy, arachnid identification
- Visionary Digital BK lab system - photography and image stacking