Andrew D. Nguyen, B.S.

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Research Interests

I am broadly interested in the evolution of insect physiology and how well we can predict future species responses to climate change

Education

2012 University of Vermont, Burlington, Vermont

Ph.D. in Biology

Expected Graduation: 2017

Co-Mentors: Sara Helms Cahan, Nicholas J. Gotelli Concentration in Ecology and Evolutionary Biology

Drexel University, Philadelphia, Pennsylvania, B.S. Major: Biology 2004-2009

Research Experience

Research Experience		
land ants		
es in Kissing bugs		
all compounds		
eloid Leukemia		
all compounds		

Red blood cell differentiation from mouse embryonic stem cells

2006-2007 Intern, Morphotek Inc.

Development of neutralizing antibodies against Staphylococcal

enterotoxin B (SEB)

Research Presentations

2014	"Surviving in a warming world: thermal adaptation in ants" BioLunch,
	University of Vermont, Department of Biology, Burlington, Vt (talk)
2013	"Impact of environmental stress on thermal tolerance in Aphaenogaster
	picea" EcoLunch, University of Vermont Department of Biology,
	Burlington, Vt (Talk)
	"Physiological response to climate change in Aphaenogaster picea"
	Northeast Natural History- Ant Ecology session, Springfield, MA (Talk)
2012	"Heat shock proteins and thermal tolerance in Aphaenogaster picea"
	EcoLunch, University of Vermont Department of Biology, Burlington, Vt
	(Talk)

"Sequence and Cis-regulatory Evolution of Heat Shock Protein *hsp83*, in Social Hymenoptera" International Union for the Study of Social Insects-North American Section Meeting (IUSSI-NAS), Greensboro, NC (Poster) "Heat shock proteins and thermal tolerance in *Aphaenogaster rudis*" Aphaenophest 2012, Petersham, MA (Talk)

Conferences Attended

2014	Evolution, Raleigh, North Carolina
2014	Molecular Biology and Evolution, Old San Juan, Puerto Rico
2013	Northeast Natural History - Ant Ecology session, Springfield,
	Massachusetts.
2012	International Union for the Study of Social Insects - North American
	Section Meeting (IUSSI-NAS), Greensboro, North Carolina.

Teaching Experience

2015	Invited Lecture, Evolutionary Biology, University of Vermont,
	Burlington, VT
2014	Invited Lecture, Evolution, University of Vermont, Burlington, VT
2014	Exploring Biology Laboratory, University of Vermont, Burlington, VT
2013	Cell and Molecular Biology Laboratory, University of Vermont,
	Burlington, VT
2012-2014	Ecology and Evolution Laboratory, University of Vermont, Burlington,
	VT
2012	Principles of Biology Laboratory, University of Vermont, Burlington, VT

Mentoring

Undergraduates:

Ariana Maleki and John Matthew Fisher worked on developing microsattelites for population genetic work on common woodland ants.

Kerri Pinder, Skyler Resendez, and Jeremy Pustilnik worked on how previous exposures to starvation and desiccation impact thermal tolerance and underlying stress responses (using heat shock proteins as a proxy).

Teddy Herriman,

Austin Sherburne worked on identifying potential morphological innovations that may temper and/or mitigate the effects of heat stress.

Curtis A. Provencher worked on assessing the impact of experimental warming on common woodland ants.

Organizational Membership

International Union for the Study of Social Insects (IUSSI) Ecological Society of America (ESA) Society of Molecular Biology and Evolution (sMBE)

Outreach

Helper, Software Carpentry, University of Vermont

Graduate Mentor, Ant Camp, University of Vermont Department of

Biology

Aided in communicating and demonstrating ant collecting to high school

students

Skills

Computing: Microsoft excel/word, R, python

Lab: General molecular biology techniques (RNA/DNA isolation, PCR, qPCR, gel electrophoresis(PAGE and agarose), Western Blots), Cell culture (primary and established lines; flow cytometry)