

Andrew D. Nguyen

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Experience

- 2017 - Present** **Postdoctoral Associate**, University of Florida
Manage and lead National Science Foundation funded project on agricultural insect pests.
Investigated behavioral rhythms with time series analyses and wavelet analyses.
- 2012-2017** **Dissertation research**; University of Vermont
Worked independently and in collaboration to complete Dimensions grant objectives.
Took projects from ideas to experimentation, data analysis, visualization, and manuscript preparation.
- 2014** **Research Associate**, [Dr. Lori Stevens lab](#); University of Vermont
Determined infection frequency of Trypanosome parasites in Kissing bugs that cause Chagas disease.
- 2010-2011** **Technician**; [Reaction Biology Corp](#)
High through put screening of potentially therapeutic small compounds.
- 2009-2010** **Technician**, Antibody Core Department; [Morphotek Inc.](#)
Developed therapeutic antibodies against Acute Myeloid Leukemia (AML).
- 2007-2008** **Co-op intern**, Reproductive Toxicology; [GlaxoSmithKline](#)
Studied red blood cell differentiation from mouse embryonic stem cells.
- 2006-2007** **Co-op intern**, Antibody Core Department; [Morphotek Inc.](#)
Developed neutralizing antibodies against Staphylococcal enterotoxin B (SEB).

Education

- 2012-2017** **PhD, Biology**; University of Vermont (Burlington), Department of Biology
Thesis title: Evolutionary innovations in ants to thermally stressful environments
Advisors: [Sara Helms Cahan](#), [Nicholas J. Gotelli](#)
Committee: [Brent L. Lockwood](#), [Jill Preston](#)
- 2004-2009** **BSc, Biology**; Drexel University (Philadelphia)

Publications

Undergraduate researchers in *italics*

- Nguyen AD**, *DeNovellis K, Resendez S, Pustilnik JD*, Gotelli NJ, Parker JD, Cahan SH. 2017. Effects of desiccation and starvation on thermal tolerance and the heat-shock response in forest ants. *J Comp Physiol B*:1–10.
 - [Paper](#)
- Helms Cahan S, **Nguyen AD**, Stanton-Geddes J, Penick CA, Hernáiz-Hernández Y, DeMarco BB, Gotelli NJ. 2017. Modulation of the heat shock response is associated with acclimation to novel temperatures but not adaptation to climatic variation in the ants *Aphaenogaster picea* and *A. rudis*. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology* 204:113–120.
 - [Paper](#) and [Data](#)
- Nguyen AD**, Gotelli NJ, Cahan SH. 2016. The evolution of heat shock protein sequences, cis-regulatory elements, and expression profiles in the eusocial Hymenoptera. *BMC Evolutionary Biology* 16:15.
 - [Paper](#) and [Data](#)
- Stanton-Geddes J, **Nguyen A**, Chick L, Vincent J, Vangala M, Dunn RR, Ellison AM, Sanders NJ, Gotelli NJ, Cahan SH. 2016. Thermal reactionomes reveal divergent responses to thermal extremes in warm and cool-climate ant species. *BMC Genomics* 17:171.

Skills

Computing:

- *Unix* – General command line, shell bash scripting, and remote computing
- *R* – Data analysis and visualization
- *(R)Markdown* – Integrative word processing and technical reporting
- *Python* – Written scripts to parse genomic data
- *Github* – Reproducible science through version control and online notebooks
- *HTML* – Website development
- *Phylogenetics* - Maximum likelihood (RAxML) and Bayesian (MrBayes)
- *Geneious* – Sequence analysis
- *Microsoft Office* – Data preparation, organization, and word processing

Laboratory:

- RNA, DNA, and protein isolation
- PCR and qPCR
- Gel electrophoresis: polyacrylamide and agarose
- Western blotting; immunohistochemistry
- Cell culture (primary and established lines)
- Flow Cytometry

Teaching Experience

2017	Ecological Genomics - Teaching Assistant, University of Vermont
2016	Invited Lecture, Evolution , University of Vermont,
2015	Invited Lecture, Evolutionary Biology for non majors, University of Vermont
2014	Invited Lecture, Evolution , University of Vermont
2014	Exploring Biology - Teaching Assistant, University of Vermont
2013	Cell and Molecular Biology - Teaching Assistant, University of Vermont
2012-2014	Ecology and Evolution - Teaching Assistant, University of Vermont
2012	Principles of Biology - Teaching Assistant, University of Vermont

University Service

2018-Present	University Minority Mentor Program (UMMP) <ul style="list-style-type: none">• Help first year undergraduate students transition into university life.
2018-Present	Editor, University of Florida Postdoctoral Editors Association (UF-PEA) <ul style="list-style-type: none">• Edit written documents for language usage, punctuation, and organization.