

# Andrew D. Nguyen

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## Professional Appointments

**2017 - Present**     **Postdoctoral Associate**, University of Florida  
Supervisor: [Dr. Daniel Hahn](#)

## 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)

## Research Experience

**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).

## 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](#)

3. **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](#)
4. 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.
  - [Paper and Data](#)

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

## University Service

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