

## PERSONAL DETAILS

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## EDUCATION

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**Ph.D., Biological Science** Jan 2014 - May 2020  
*University of Mississippi*  
The geographic and ecological context of the evolutionary history of subterranean termites: distributional shifts and rapid adaptation to novel environments (advisor: Ryan Garrick)

**Ph.D. (voluntary withdrawal), Natural Resources** Aug 2012 - Dec 2013  
*Cornell University*  
Spatio-temporal gene-environment associations in the eastern oyster

**B.A., Environmental Studies** Sep 2002 - May 2007  
*Yale University*  
Galapagos giant tortoise conservation on the island of Santa Cruz: morphological and genetic distinctiveness of a newly discovered taxon (advisor: Adalgisa Caccone)

## EMPLOYMENT

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**Graduate Teaching Assistant** Jan 2014 - May 2020  
*University of Mississippi, Department of Biology*  
Taught lab courses (6), including Genetics for nine semesters; gave guest lectures (4) in Genetics, Evolution, and Integrated Science lecture courses

**Research Assistant** Jun 2007 - Aug 2012  
*Yale University, Department of Ecology and Evolutionary Biology*  
Galapagos giant tortoise conservation research: phylogeography, speciation, hybridization; disease vector (tsetse) research: spatio-temporal dynamics of genetic variation and host-parasite interactions

**Laboratory Technician** Jun 2007 - Aug 2012  
*Yale University, DNA Analysis Facility on Science Hill*  
Trained staff/students in molecular techniques and data analysis; operated and maintained sequencing equipment and software

**Interpreter/Translator** Jul 1999 - Aug 2002  
*United Nations Mission in Kosovo: Division of Public Information*  
Translated press releases and other written communication; interpreted at press conferences and political meetings/events. Languages: primarily Albanian and English, also German and Serbian

## PUBLICATIONS

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= equal contribution

28. **Chaz Hyseni**, Ryan C Garrick: *The role of glacial-interglacial climate change in shaping the genetic structure of eastern subterranean termites in the southern Appalachian Mountains, USA*. **Ecology and Evolution**, 2019.
27. **Chaz Hyseni**, Ryan C Garrick: *Ecological drivers of species distributions and niche overlap for three subterranean termite species in the southern Appalachian Mountains, USA*. **Insects**, 2019.
26. Ryan C Garrick, Dana K Reppel, Jeremy T Morgan, Stephanie Burgess, **Chaz Hyseni**, Reese J Worthington, Michael D Ulyshen: *Trophic interactions among dead-wood-dependent forest arthropods in the southern Appalachian Mountains, USA*. **Food Webs**, 2019.
25. Ryan C Garrick, John D Banusiewicz, Stephanie Burgess, **Chaz Hyseni**, Rebecca E Symula: *Extending phylogeography to account for lineage fusion*. **Journal of Biogeography**, 2019.
24. Daniela I Schneider, Norah Saarman, Maria G Onyango, **Chaz Hyseni**, Robert Opiro, Richard Echodu, Michelle O'Neill, Danielle Bloch, Aurelien Vigneron, TJ Johnson, Kirstin Dion, Brian L Weiss, Elizabeth Opiyo, Adalgisa Caccone, Serap Aksoy: *Spatio-temporal distribution of Spiroplasma infections in the tsetse fly (Glossina fuscipes fuscipes) in northern Uganda*. **PLoS Neglected Tropical Diseases**, 2019.
23. Norah P Saarman, Robert Opiro, **Chaz Hyseni**, Richard Echodu, Elizabeth A Opiyo, Kirstin Dion, Thomas Johnson, Serap Aksoy, Adalgisa Caccone: *The population genomics of multiple tsetse fly (Glossina fuscipes fuscipes) admixture zones in Uganda*. **Molecular Ecology**, 2019.
22. Norah Saarman, Mary Burak, Robert Opiro, **Chaz Hyseni**, Richard Echodu, Kirstin Dion, Elizabeth A Opiyo, Augustine W Dunn, Giuseppe Amatulli, Serap Aksoy, Adalgisa Caccone: *A spatial genetics approach to inform vector control of tsetse flies (Glossina fuscipes fuscipes) in Northern Uganda*. **Ecology and Evolution**, 2018.
21. Agapitus B Kato, **Chaz Hyseni**, Loyce M Okedi, Johnson O Ouma, Serap Aksoy, Adalgisa Caccone, Charles Masembe: *Mitochondrial DNA sequence divergence and diversity of Glossina fuscipes fuscipes in the Lake Victoria basin of Uganda: implications for control*. **Parasites and Vectors**, 2015.
20. Ryan C Garrick, Isabel A S Bonatelli, **Chaz Hyseni**, Ariadna Morales, Tara A Pelletier, Manolo F Perez, Edwin Rice, Jordan D Satler, Rebecca E Symula, Maria Tereza C Thome, Bryan C Carstens: *The evolution of phylogeographic data sets*. **Molecular Ecology**, 2015.
19. Ryan C Garrick, Benjamin D Collins, Rachel N Yi, Rodney J Dyer, **Chaz Hyseni**: *Identification of eastern United States Reticulitermes termite species via PCR-RFLP, assessed using training and test data*. **Insects**, 2015.
18. Ryan C Garrick, Brittney Kajdacs, Michael A Russello, Edgar Benavides, **Chaz Hyseni**, James P Gibbs, Washington Tapia, Adalgisa Caccone: *Naturally rare versus newly rare: demographic inferences on two timescales inform conservation of Galapagos giant tortoises*. **Ecology and Evolution**, 2015.

17. Ryan C Garrick, Edgar Benavides, Michael A Russello, **Chaz Hyseni**, Danielle L Edwards, James P Gibbs, Washington Tapia, Claudio Ciofi, Adalgisa Caccone: *Lineage fusion in Galapagos giant tortoises*. **Molecular Ecology**, 2014.
16. Danielle L Edwards, Edgar Benavides, Ryan C Garrick, James P Gibbs, Michael A Russello, Kirstin B Dion, **Chaz Hyseni**, Joseph P Flanagan, Washington Tapia, Adalgisa Caccone: *The genetic legacy of Lonesome George survives: giant tortoises with Pinta Island ancestry identified in Galapagos*. **Biological Conservation**, 2013.
15. Sarah Federman, **Chaz Hyseni**, Wendy Clement, Michael P Oatham, Adalgisa Caccone: *Habitat fragmentation and the genetic structure of the Amazonian palm *Mauritia flexuosa* L.f. (Arecaceae) on the island of Trinidad*. **Conservation Genetics**, 2013.
14. Brittney Kajdacs, Federico Costa, **Chaz Hyseni**, Fleur Porter, Julia Brown, Gorete Rodrigues, Helena Farias, Mitermayer G Reis, James E Childs, Albert I Ko, Adalgisa Caccone: *Urban population genetics of slum-dwelling rats (*Rattus norvegicus*) in Salvador, Brazil*. **Molecular Ecology**, 2013.
13. Mark Sistrom, Richard Echodu, **Chaz Hyseni**, John Enyaru, Serap Aksoy, Adalgisa Caccone: *Taking advantage of genomic data to develop reliable microsatellite loci in *Trypanosoma brucei**. **Molecular Ecology Resources**, 2013.
12. Richard Echodu, Mark Sistrom, **Chaz Hyseni**, John Enyaru, Loyce Okedi, Serap Aksoy, Adalgisa Caccone: *Genetically distinct *Glossina fuscipes fuscipes* populations in the lake Kyoga region of Uganda and its relevance for human African trypanosomiasis*. **BioMed Research International**, 2013.
11. **Chaz Hyseni**, Agapitus B Kato, Loyce M Okedi, Charles Masembe, Johnson O Ouma, Serap Aksoy, Adalgisa Caccone: *The population structure of *Glossina fuscipes fuscipes* in the Lake Victoria basin in Uganda: implications for vector control*. **Parasites and Vectors**, 2012.
10. Uzma Alam, **Chaz Hyseni**, Rebecca E Symula, Corey Brelsfoard, Yineng Wu, Oleg Kruglov, Jingwen Wang, Richard Echodu, Victor Alioni, Loyce M Okedi, Adalgisa Caccone, Serap Aksoy: *Implications of microfauna-host interactions for trypanosome transmission dynamics in *Glossina fuscipes fuscipes* in Uganda*. **Applied and Environmental Microbiology**, 2012.
9. Sarah Federman, **Chaz Hyseni**, Wendy Clement, Adalgisa Caccone: *Isolation of 13 novel highly polymorphic microsatellite loci for the Amazonian Palm *Mauritia flexuosa* L.f. (Arecaceae)*. **Conservation Genetics Resources**, 2012.
8. Ryan C Garrick, Edgar Benavides, Michael A Russello, James P Gibbs, Nikos Poulakakis, Kirstin B Dion, **Chaz Hyseni**, Brittney Kajdacs, Lady Marquez, Sarah Bahan, Claudio Ciofi, Washington Tapia, Adalgisa Caccone: *Genetic rediscovery of an 'extinct' Galapagos giant tortoise species*. **Current Biology**, 2012.
7. **Chaz Hyseni**, Jon S Beadell, Zaneli Gomez Ocampo, Johnson O Ouma, Loyce M Okedi, Michael W Gaunt, Adalgisa Caccone: *The *G.m. morsitans* (Diptera: Glossinidae) genome as a source of microsatellite markers for other tsetse fly (*Glossina*) species*. **Molecular Ecology Resources**, 2011.
6. Richard Echodu, Jon S Beadell, Loyce M Okedi, **Chaz Hyseni**, Serap Aksoy, Adalgisa Caccone: *Temporal stability of *Glossina fuscipes fuscipes* populations in Uganda*. **Parasites and Vectors**, 2011.

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## PRESENTATIONS

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### Talks:

North American Regional Assoc. of the Intl. Assoc. for Landscape Ecology:  
Landscape Genetics Symposium (7-11 Apr 2019, Fort Collins CO)  
University of Mississippi Graduate Student Council:  
9th Annual Research Symposium (26 Mar 2019, University MS)  
Ecological Society of America: Statistical Ecol. Section (5-10 Aug 2018, New Orleans LA)  
University of Mississippi Graduate Student Council:  
8th Annual Research Symposium (20 Mar 2018, University MS)  
Entomological Society of America (4-8 Nov 2017, Denver CO)  
University of Mississippi Research Showcase (31 Mar 2017, University MS)  
LSU Museum of Natural Science Seminar Series (17 Mar 2017, Baton Rouge LA)  
University of Mississippi Graduate Student Council:  
7th Annual Research Symposium (2 Mar 2017, University MS)  
American Society of Tropical Medicine and Hygiene (3-7 Nov 2010, Atlanta GA)

### Posters: \*number, if more than one

Entomological Society of America (4-8 Nov 2017, Denver CO)  
Evolution (17-21 Jun 2016, Austin TX); Evolution (20-24 Jun 2014, Raleigh NC)  
American Society of Tropical Medicine and Hygiene (4-8 Dec 2011, Philadelphia PA) \*3  
American Society of Tropical Medicine and Hygiene (3-7 Nov 2010, Atlanta GA)  
American Society of Tropical Medicine and Hygiene (7-11 Dec 2008, New Orleans LA)

## PROFESSIONAL SERVICE

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### Peer Review

Sep 2014 - present

*Bulletin of Entomological Research* (3); *Molecular Ecology* (2); *Animal Microbiome* (1);  
*Ecology and Evolution* (1); *Infection, Genetics and Evolution* (1)

### Teaching

Jan 2014 - May 2020

*University of Mississippi*

**Lab courses:** Genetics Lab (Fall 2015 - Spring 2019, Summer 2019, Spring 2020); Cell and Molecular Biology Lab (Spring 2019); Population Genetics Computer Lab (Spring 2018); Inquiry into Life Lab I: Human Biology (Spring 2014, Spring 2015); Biological Sciences I Lab (Fall 2014); Inquiry into Life Lab II: Diversity and the Environment (Spring 2014)

**Guest lectures:** Evolution: "Genetic Drift and the Founder Effect" (30 Oct 2019); Genetics: "Population Genetics" (5 Mar 2019; 8 Mar 2018); Integrated Science: "Classical and Modern Genetics" (13 Apr 2018)

Summer 2013

*Cornell University*

**Workshops:** American Genetics Association workshop: "Next-generation population genomics for non-model taxa"

### Training

Jun 2007 - Aug 2012

*Yale University*

Trained 6 high school students, 12 undergraduate students, and 5 graduate students in molecular lab techniques and data analysis

## HONORS AND AWARDS

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<b>Dissertation Fellowship (\$6,500)</b> <i>University of Mississippi</i>	Fall 2019
<b>Graduate Student Council Research Grant (\$1,000)</b> <i>University of Mississippi</i>	Apr 2019
<b>Professional Enhancement Award (\$700)</b> <i>National Aeronautics and Space Administration, and Michigan State University</i>	Apr 2019
<b>Summer Research Fellowship (\$12,000)</b> <i>University of Mississippi</i>	Summer 2018-2015
<b>Student Presentation Award (2<sup>nd</sup> Place, \$300)</b> <i>University of Mississippi Graduate Student Council Research Symposium</i> Science, Technology, Engineering, and Mathematics Section	Mar 2018
<b>Student Presentation Award (2<sup>nd</sup> Place)</b> <i>Entomological Society of America Annual Meeting</i> Systematics, Evolution, and Biodiversity of Hymenoptera and Isoptera Section	Nov 2017
<b>The Honor Society of Phi Kappa Phi</b>	Oct 2017
<b>Student Presentation Award (1<sup>st</sup> Place, \$300)</b> <i>University of Mississippi Graduate Student Council Research Symposium</i> Physical and Life Sciences Section	Mar 2017
<b>Graduate Student Council Research Grant (\$1,000)</b> <i>University of Mississippi</i>	Apr 2016
<b>Sigma Xi: The Scientific Research Honor Society</b>	Mar 2016
<b>Program for Excellence in Science</b> <i>American Association for the Advancement of Science</i>	Jun 2013
<b>Summer Environmental Fellowship (\$5,000)</b> <i>Yale University</i>	Summer 2006

## SKILLS

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<i>Disciplines:</i>	Ecological/Evolutionary/Landscape/Population Genetics, Bioinformatics, Phylogeography, Spatial/Multivariate Statistics
<i>Languages:</i>	fluent: Albanian, English, German, Serbian; proficient: French
<i>Programming:</i>	high-to-low usage: R, PYTHON, $\text{\LaTeX}$ , JULIA, PERL, MATLAB
<i>GIS:</i>	R GIS packages, QGIS, GRASS GIS, SAGA GIS, ARCGIS