

PERSONAL DETAILS

Address: University of Mississippi, Dept. of Biology, University, MS 38677
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EDUCATION

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

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

= 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

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

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); 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

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

SKILLS

<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, \LaTeX , JULIA, PERL, MATLAB
<i>GIS:</i>	R GIS packages, QGIS, GRASS GIS, SAGA GIS, ARCGIS