

CURRICULUM VITAE – BRADLEY T. MARTIN

PhD Candidate

Department of Biological Sciences
University of Arkansas
Fayetteville, AR

EDUCATION

- Ph.D.** (*in progress*) - Biological Sciences, University of Arkansas, Fayetteville, AR.
Dissertation: *A North American Perspective on the Ecological and Evolutionary Underpinnings of Hybrid Zone Dynamics*
- M.S.** 2012 - Biology, University of Texas at Tyler, Tyler, TX. Thesis: *Molecular Phylogenetics and Phylogeography of the American Box Turtles (Terrapene spp.)*
- B.S.** 2009 - Biology, University of Texas at Tyler, Tyler, TX. Graduated Cum Laude

PROFESSIONAL EXPERIENCE

- 2012- **Graduate Teaching Assistant**, Department of Biological Sciences, University of Arkansas
- Summer 2017 **Graduate Research Assistant**, Department of Biological Sciences, University of Arkansas
- Summer 2016 **Graduate Research Assistant**, Department of Biological Sciences, University of Arkansas
- Summer 2011 **Graduate Research Assistant**, Department of Biology, University of Texas at Tyler
- 2010-2012 **Graduate Teaching Assistant**, Department of Biology, University of Texas at Tyler

2009 *Undergraduate Research Assistant*, Department of Biology, University of Texas at Tyler

TEACHING EXPERIENCE

Principles of Biology Lecture (BIOL 1543, U. of Arkansas). Semesters taught: 4

Principles of Biology Lab (BIOL 1541L, U. of Arkansas). Semesters taught: 3

Human Anatomy Lab (BIOL 2441L, U. of Arkansas). Semesters taught: 9

Human Physiology Lab (BIOL 2211L, U. of Arkansas). Semesters taught: 2

Biology of Global Change Drills (BIOL 4154D, U. of Arkansas). Semesters taught: 1

General Biology I Lab (BIOL 1106, U. of Texas at Tyler). Semesters taught: 3

General Biology II Lab (BIOL 1107, U. of Texas at Tyler). Semesters taught: 1

GUEST LECTURES

2011 *Genetics - DNA Replication* (BIOL 3332, U. of Texas at Tyler)

2011 *Ecology - Life Tables and Demography* (BIOL 3336, U. of Texas at Tyler)

PEER-REVIEWED PUBLICATIONS

Martin, B.T., I.M. Hemby, L.B. Brown, and J.S. Placyk, Jr. In preparation. Molecular Phylogenetics of the Ribbonsnakes (*Thamnophis proximus* and *T. sauritus*).

Chafin, T.K., **B.T. Martin**, S.M. Mussmann, M.R. Douglas, and M.E. Douglas. 2017. FRAGMATIC: in silico locus prediction and its utility in optimizing ddRADseq projects. *Conservation Genetics Resources*: 2017: 1-4.

Martin, B.T., N.P. Bernstein, R.D. Birkhead, J.F. Koukl, S.M. Mussmann, and J.S. Placyk, Jr. 2014. On the Reclassification of the *Terrapene* (Testudines: Emydidae): A Response to Fritz and Havaš. *Zootaxa*: 3835(2): 292–294.

Martin, B.T., N.P. Bernstein, R.D. Birkhead, J.F. Koukl, S.M. Mussmann, and J.S. Placyk, Jr. 2013. Sequence-based molecular phylogenetics and phylogeography of the American box

turtles (*Terrapene* spp.) with support from DNA barcoding. *Molecular Phylogenetics and Evolution*: 68: 119-134.

Martin, B.T., D.D. Goodding, N.B. Ford, and J.S. Placyk, Jr. 2013. Sensory Mediation of Foraging Strategies in the Western Lesser Siren (*Siren intermedia nettingi*). *Journal of Herpetology*: 47(1): 75-77.

MANUSCRIPTS REVIEWED FOR:

PLOS One
Biological Journal of the Linnaean Society
Journal of Herpetology
Biology (MDPI)

RESEARCH GRANTS (TOTAL \$4,100)

- 2018 Lucille F. Stickel Box Turtle Research Award. *Hybridization and Introgression in North American Box Turtles from the Southeastern United States*. Box Turtle Conservation Committee – Spring 2018. **Awarded \$1,000.**
- 2017 American Turtle Observatory (ATO) Conservation Grant. *Hybridization and Introgression in the American Box Turtles (Terrapene spp.)*. American Turtle Observatory – Spring 2017. **Awarded \$1,000.**
- 2010 UT-Tyler Office of Sponsored Research. *Conservation Genetics of the North American Box Turtles (Terrapene spp.)*. **Awarded \$800**
- 2010 East Texas Herpetological Society. *Conservation Genetics of the North American Box Turtles (Terrapene spp.)*. **Awarded \$500**
- 2009 UT-Tyler Office of Sponsored Research. *Pilot Data on the Molecular Phylogeography of the North American Box Turtles (Terrapene spp.)*. **Awarded \$800**

FELLOWSHIPS AND SCHOLARSHIPS (TOTAL \$18,100)

- 2017 James and Carol Hendren Fellowship, W.J. Fulbright College, University of Arkansas – Fall 2017. **\$10,000**
- 2014 Delbert Swartz Endowed Graduate Fellowship for Outstanding Graduate Student. University of Arkansas, Department of Biological Sciences – Fall 2014. **\$1,100**
- 2009 Louis Stokes Alliances for Minority Participation (LSAMP) Undergraduate Research Fellowship – Fall 2009. **\$3,000**

- 2009 Louis Stokes Alliances for Minority Participation (LSAMP) Undergraduate Research Fellowship – Summer 2009. **\$3,000**
- 2006-2007 UT-Tyler Carl Roddy Scholarship (for an undergraduate student showing high promise in biology). **\$1000**

TRAVEL AWARDS (TOTAL \$4,400)

- 2017 Graduate School and Department of Biological Sciences at the University of Arkansas. Travel funding for the Joint Meeting of Ichthyologists and Herpetologists Annual Meeting in Austin, TX. **Awarded \$1,100**
- 2016 Graduate School and Department of Biological Sciences at the University of Arkansas. Travel funding for the Joint Meeting of Ichthyologists and Herpetologists Annual Meeting in New Orleans, LA. **Awarded \$1,100**
- 2014 Graduate School and Department of Biological Sciences at the University of Arkansas. Travel funding for the Joint Meeting of Ichthyologists and Herpetologists Annual Meeting in Chattanooga, TN. **Awarded \$1,100**
- 2013 Graduate School and Department of Biological Sciences, University of Arkansas. Travel funding for the Joint Meeting of Ichthyologists and Herpetologists Annual Meeting in Albuquerque, NM. **Awarded \$1,100**

HONORS

- 2010 **Lifetime Member Inductee** - Alpha Chi National College Honor Society

PROFESSIONAL PRESENTATIONS

ORAL PRESENTATIONS

- 2017 Population Genomics of the Western Massasaugas (*Sistrurus tergeminus tergeminus* and *S. t. edwardsii*). Joint Meeting of Ichthyologists and Herpetologists Annual Meeting, Austin, TX. **B.T. Martin**, M.R. Douglas, A.T. Holycross, S.P. Mackessy, and M.E. Douglas.
- 2016 Phylogenomics and an Assessment of Introgression in the North American Box Turtles (*Terrapene* spp.). Joint Meeting of Ichthyologists and Herpetologists Annual Meeting, New Orleans, LA. **B.T. Martin**, M.R. Douglas, J.S. Placyk, Jr., R.D. Birkhead, and M.E. Douglas.

- 2013 Molecular Phylogenetics of the American Box Turtles (*Terrapene* spp.): A Classification Re-Assessment and a Molecular Clock Depicting Divergence Time Estimates. Joint Meeting of Ichthyologists and Herpetologists Annual Meeting, Albuquerque, NM. **B.T. Martin**, N.P. Bernstein, R.D. Birkhead, J.F. Koukl, S.M. Musmann, and J.S. Placyk, Jr.
- 2012 Conservation of the North American Box Turtles: Range-wide Molecular Evaluation and its Management Implications. Seventy-third annual Midwest Fish and Wildlife Conference; symposium: The Fur and the Featherless: Conservation and Management of Amphibians and Reptiles. **B.T. Martin**, N.P. Bernstein, and J.S. Placyk, Jr.
- 2011 Range-wide Molecular Phylogenetics of the North American Box Turtle (*Terrapene*). Joint Meeting of Ichthyologists and Herpetologists, Minneapolis, MN. **B.T. Martin**, J.F. Koukl, N. Bernstein, and J.S. Placyk, Jr.
- 2011 Range-wide Molecular Phylogeography of the North American Box Turtle (*Terrapene*). Southwest Association of Naturalists annual meeting, University of Texas at Tyler, Tyler, TX. **B.T. Martin**, J.F. Koukl, N. Bernstein, and J.S. Placyk, Jr.
- 2010 Preliminary Molecular Phylogenetics of the North American Box Turtles (*Terrapene* spp.) Using mtDNA. Dallas and Fort Worth Herpetological and the Texas Herpetological Society Fall Chelonian Symposium, University of Texas at Arlington, Arlington, TX. J.S. Placyk, Jr., **B.T. Martin**, J.F. Koukl, and N. Bernstein.

POSTER PRESENTATIONS

- 2016 FRAGMATIC: In silico locus prediction and its utility for RADseq project design and optimization. Joint Meeting of Ichthyologists and Herpetologists Annual Meeting, New Orleans, LA. T.K. Chafin, **B.T. Martin**, S.M. Musmann, M.R. Douglas, and M.E. Douglas
- 2014 Molecular Phylogenetics of the Ribbonsnakes (*Thamnophis proximus* and *T. sauritus*). Joint Meeting of Ichthyologists and Herpetologists Annual Meeting, Chattanooga, TN. **B.T. Martin**, I.M. Hemby, L.B. Brown, and J.S. Placyk, Jr.
- 2011 Prey detection strategies of the Western lesser siren (*Siren intermedia nettingi*). Ecological Society of America Annual Meeting, Austin, TX; and Texas Herpetological Society annual meeting, Austin, TX. D.D. Goodding, **B.T. Martin**, N.B. Ford, and J.S. Placyk, Jr.

- 2010 Conservation Genetics of the North American Box Turtles (*Terrapene* spp.). UT-Tyler Office of Sponsored Research Student Poster Competition, the University of Texas at Tyler, Tyler, TX. **B.T. Martin**, J.F. Koukl, and J.S. Placyk, Jr.
- 2010 Conservation Genetics of the North American Box Turtles (*Terrapene* spp.). Southwestern Association of Naturalists annual meeting, Junction, TX. **B.T. Martin**, J.F. Koukl, and J.S. Placyk, Jr.
- 2009 Preliminary Molecular Phylogenetics of the North American Box Turtles (*Terrapene* spp.). Louis Stokes Alliances for Minority Participation (LSAMP) Undergraduate Research Competition, the University of Texas at Austin, Austin, TX. **B.T. Martin**, J.F. Koukl, and J.S. Placyk, Jr.
- 2009 Preliminary Molecular Phylogenetics of the North American Box Turtles (*Terrapene* spp.). Turtle Survival Alliance annual meeting, St. Louis, MO. **B.T. Martin**, J.F. Koukl, and J.S. Placyk, Jr.
- 2009 Pilot Data on the Molecular Phylogeography of the North American Box Turtles (*Terrapene* spp.). UT-Tyler Office of Sponsored Research Student Poster Competition, the University of Texas at Tyler, Tyler, TX. **B.T. Martin**, J.F. Koukl, and J.S. Placyk, Jr.

RELEVANT GRADUATE COURSEWORK

Relevant Graduate Coursework Taken (UA = University of Arkansas, UTT = University of Texas at Tyler)

<i>Conservation Genetics (UA)</i>	<i>Programming in Perl for Biologists (UA)</i>
<i>Intro to Raster GIS (UA)</i>	<i>Scientific Computing in C++ (UA)</i>
<i>Intro to Cluster Computing (UA)</i>	<i>Ecological Genetics/Genomics (UA)</i>
<i>Herpetology (UA)</i>	<i>Ichthyology (UA)</i>
<i>Biogeography (UTT)</i>	<i>Evolutionary Ecology Seminar (UA)</i>
<i>Univariate Stat Methods (UTT)</i>	<i>Multivariate Stat Methods in Biology (UTT)</i>
<i>Biological Research (UTT)</i>	<i>Aquatic Biology (UTT)</i>
<i>Ecotoxicology (UTT)</i>	<i>Pathology (UTT)</i>

RELEVANT UNDERGRADUATE COURSEWORK

Relevant Undergraduate Coursework Taken (Taken at UT Tyler unless otherwise noted;
TJC = Tyler Junior College)

<i>Biological Evolution</i>	<i>Genetics</i>
<i>Ecology</i>	<i>Human Physiology</i>
<i>Cell Biology</i>	<i>Cell and Molecular Biology</i>
<i>Statistics</i>	<i>Calculus 1 & 2</i>
<i>Entomology</i>	<i>Biochemistry</i>
<i>Plant Morphology</i>	<i>Organic Chemistry 1 & 2</i>
<i>University Physics 1</i>	<i>College Physics 2 (TJC)</i>

PROFESSIONAL SOCIETY MEMBERSHIPS

American Society of Ichthyologists and Herpetologists (ASIH)

REFERENCES

PH.D. ADVISORS

Dr. Marlis R. Douglas, Bruker Professor in Life Sciences, Department of Biological Sciences, University of Arkansas, Fayetteville, AR.

Dr. Michael E. Douglas, 21st Century Chair in Global Change Biology, Department of Biological Sciences, University of Arkansas, Fayetteville, AR.

MASTER'S ADVISOR

Dr. John S. Placyk, Jr., Associate Professor, Department of Biology, University of Texas at Tyler, Tyler, TX.