

Randy Klabacka

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Education

PhD Student in Biological Sciences

2016 –

Auburn University– Auburn, AL

Advisors: Dr. Jamie Oaks and Dr. Tonia Schwartz

Bachelor of Science in Biological Science

2016

Brigham Young University– Provo, UT

Advisor: Dr. Jack W. Sites Jr.

Grants and Awards

- **2019** SSAR Henri Seibert Competition– best student paper talk in Systematics and Evolution Category at JMIH 2019 (\$200)
- **2019** Trees in the Desert NSF-funded workshop (travel, housing & food, workshop)
- **2017** Cellular and Molecular Biology (CMB) Summer Research Fellowship: Mitonuclear distancing: The baggage of an asexual reproductive strategy (genus: *Aspidoscelis*) (Summer Stipend)
- **2017** Meredith Ann Birchfield Endowed Fund for Excellence: Filling genetic sampling gap for species delimitation/biogeography of *Draco maculatus* species complex (Thailand) (\$1,500)
- **2017** NSF Travel Grant: Society of Systematic Biologists meeting. (\$500)
- **2016** Office of Research & Creative Activities (ORCA) Grant: Phylogeny and species boundaries in the “flying dragons” of the *Draco maculatus* species complex (family Agamidae) (\$1,500)
- **2015** 3rd Place HBLLE College of Life Sciences Poster Competition: (\$100)
- **2014** NSF Research Opportunity for Undergraduate Students (REU) supplemental award recipient: Phylogeny and biogeography of New World leaf-toed geckos, *Phyllodactylus* (Co-author; \$3,000)
- **2013** Full-tuition Academic Scholarship: Brigham Young University

Publications

Klabacka, R.L., Perry, P.L. Jr., Oaks, J.R., McGuire, J.A., Grismer, L. L., Sites, J.W. Jr. (2017). Phylogenetic composition of the *Draco maculatus* species complex: Novel species hypotheses for four flying lizards within Indochina. In preparation for *Molecular Phylogenetics and Evolution* (planned submission: August 2019).

Davis, Hayden R., Grismer, L. Lee, Klabacka, Randy L., Muin, Mohd A., Quah, Evan S., Anuar, Shahrul, Wood, Perry L. J.R., and Sites, Sites, Jack W. J.R. (2016). The phylogenetic relationships of a new Stream Toad of the genus *Ansonia* Stoliczka, 1870 (Anura: Bufonidae) from a montane region in Peninsular Malaysia." *Zootaxa* 4103(2): 137-153. DOI: 10.11646/zootaxa.4103.2.4.

Grismer, L. Lee, Wood, Perry L. J.R., Anuar, Shahrul, Grismer, Marta S., Quah, Evan S., Murdoch, Matthew L., Muin, Mohd A., Davis, Hayden R., Klabacka, Randy L., Aguilar, César, Cobos, Anthony J., Aowphol, Anchalee, Sites, Jack W. J.R. (2016). Two new Bent-toed Geckos of the *Cyrtodactylus pulchellus* complex from Peninsular Malaysia and multiple instances of convergent adaptation to limestone forest ecosystems. *Zootaxa* 4105(5): 401-429. DOI: 10.11646/zootaxa.4105.5.1.

Gamble, T., Klabacka, R., Aguilar, C., Bauer, A., Catenazzi, A., Greenbaum, E., Sites, J.W. Jr., Valdez, F.
 “Phylogeny and biogeography of New World leaf-toed geckos, *Phyllodactylus* (Phyllodactylidae: Gekkota)”.
 In preparation.

Poster Presentations and Talks

- Klabacka, R., Perry, P.L. Jr., McGuire, J.A., Oaks, Grismer, L.L., Grismer, J.L., J.R., Sites, J.W. Jr. Riverine barriers as potential drivers of biodiversification in the *Draco maculatus* species complex of Indochina. Joint Meeting of Herpetologists and Ichthyologists (JMIH; 15 min oral presentation). 27 July 2019. Snowbird, UT. *1st place in Henri Seibert Competition (Systematics and Evolution category)
- Schwartz, T.S., Reding, D., Klabacka, R., Saphick, S., Stevison, L., Bronikowski, A.M. Population genetics of the electron transport chain in snake populations exhibiting divergent resting metabolic rates. Society of Integrative and Comparative Biology (SICB; poster presentation). 5 January 2019. Tampa, FL.
- Klabacka, R., Perry, P.L. Jr., McGuire, J.A., Oaks, Grismer, L.L., Grismer, J.L., J.R., Sites, J.W. Jr. Bayes factor delimitation supports population structure in Southeast Asian species complex of Agamid lizard. Society of Systematic Biologists (SSB) meeting (5 min oral presentation). 3 June 2018. The Ohio State University, OH.
- Schwartz, T.S., Reding, D., Klabacka, R., Saphick, S., Stevison, L., Bronikowski, A.M. Targeted sequence capture for functional population genomics of genetic networks: Mapping approaches for non-model organisms. Joint Meeting of Herpetologists and Ichthyologists (JMIH; poster presentation). 14 July 2017. Austin, TX.
- Klabacka, R., Perry, P.L. Jr., Grismer, L.L., McGuire, J.A., Oaks, J.R., Sites, J.W. Jr. Speciation or isolated diversification: The hidden variation of *Draco maculatus*. Society of Systematic Biologists (SSB) meeting (5 min oral presentation). 10 January 2017. Baton Rouge, LA.
- Klabacka, R., Perry, P.L. Jr., Grismer, L.L., McGuire, J.A., Oaks, J.R., Aowphol, A., Sites, J.W. Jr. Hidden Dragons: The molecular composition of the *Draco maculatus* species complex. Southeastern Population Ecology and Evolutionary Genetics (SEPEEG) meeting (15 min oral presentation). 22 October 2016. Madison, FL.
- Klabacka, R., Perry, P.L. Jr., Sites, J.W. Jr. Phylogeny and species boundaries in the “flying dragons” of the *Draco maculatus* species complex (family Agamidae). Utah Conference on Undergraduate Research (UCUR; poster presentation). 19 February 2016. University of Utah, Salt Lake City, UT.
- Klabacka, R., Perry, P.L. Jr., Sites, J.W. Jr. Phylogeny and species boundaries in the “flying dragons” of the *Draco maculatus* species complex (family Agamidae). HBLL 2015 College of Life Sciences Undergraduate Poster Competition. 9 November 2015. Brigham Young University, Provo, UT.
- Klabacka, R., Aguilar C., A.M. Bauer, A. Catenazzi, E. Greenbaum, J.W. Sites, Jr., F. Valdez, Wood, P.L. Jr., Wilkes, R., and T. Gamble. Phylogeny and biogeography of New World leaf-toed geckos, *Phyllodactylus* (Phyllodactylidae: Gekkota). Society for the Study of Amphibians and Reptiles, 58th Annual Meeting. 1 August 2015. University of Kansas, Lawrence, KA.

Invited Lectures

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| Functional Genomics (graduate course) | |
| - Using high-throughput sequencing to examine variation at targeted genomic regions | 2018 |
| Evolution and Systematics (undergraduate course) | |
| - Early evolutionary ideas- tree thinking | 2018 |
| Introductory Biology (undergraduate course) | |
| - Domains of life | 2016 |
| - The central dogma of biology | 2016 |

Field Experience

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| • Collected 50 live <i>Aspidoscelis</i> individuals (of 4 species) in NM and TX (1 month) | 2019 |
| • Collected 12 <i>Aspidoscelis</i> species (10 ind per species) in NM and TX (2 months) | 2018 |
| • Observed diurnal herpetofauna of New Mexico during month-long field trip | 2017 |
| • Collected herpetofaunal specimens in three-week field trip to Thailand and Malaysia | 2016 |
| • Collected morphological data from live <i>Crotalus oreganus lutosus</i> | 2015 |
| • Participated in a two-week neotropical biology field course in Costa Rica | 2014 |
| • Collected geographical data for <i>Rana luteiventris</i> habitat restoration | 2013 |

Assistantships

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| Graduate Teaching Assistantship– Vertebrate Biodiversity | 2019 |
| Graduate Research Assistantship– Dr. Jamie Oaks | 2019 |
| Graduate Teaching Assistantship– Biomedical Physiology | 2018 – 2019 |
| Graduate Research Assistantship– Dr. Tonia Schwartz | 2018 |
| Graduate Teaching Assistantship– Anatomy and Physiology | 2016 – 2017 |
| Undergraduate Research Assistantship– Phylogenetic Systematics Dr. Jack Sites Jr. (BYU) | 2013 – 2016 |
| Undergraduate Research Assistantship– Metabolic Physiology Dr. Chad Hancock (BYU) | 2013 – 2016 |
| Undergraduate Teaching Assistantship Dr. John “Keoni” Kauwe (BYU) | 2013 – 2016 |

Additional Experience and Skills

- 14 credit hours of Computer Science and Bioinformatics
- Proficiently code in Python, C++, Bash, R, LaTeX
- Fluently speak Spanish

Outreach

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| Mentored five undergraduate students in laboratory and field techniques | 2018 – 2019 |
| Reptiles and Amphibians Scout Merit Badge Instructor | 2016 |
| Auburn Natural History Museum Open House Herpetological Representative | 2016 – 2018 |
| Assistant Scout Master (Troop 354- Chattahoochee Council) | 2016 – 2018 |

Professional Memberships

- Society for the Study of Amphibians and Reptiles (SSAR)
- Society of Systematic Biologists (SSB)
- Society for the Study of Evolution (SSE)
- Herpetologists' League (HL)