

Curriculum Vitae
Jesse L. Grismer

CONTACT INFORMATION:

Department of Biological Sciences
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La Kretz Center for Californian Conservation Science,
Institute of the Environment and Sustainability, La Kretz Hall
University of California Los Angeles
Los Angeles, CA 90095, Suite 300, Box 951496, -1496

EDUCATION:

Louisiana State University, B.S. in Biological Sciences. 2007.
Villanova University, M.S. in Biology. 2010.
University of Kansas, Ph.D. in Ecology and Evolutionary
Biology. 2016.

RESEARCH INTERESTS AND ONGOING PROJECTS:

- Exploration and species discovery in Central Asia and the South Pacific.
- The use of genomic data to identify board-scale patterns of dispersal and colonization between South Pacific archipelagos in boid and elapid snakes, and scinid lizards.
- The evolution of parthenogenesis in Southeast Asian Butterfly Lizards.
- Conservation genetics of Southern California herpetofauna.

GRANTS:

- 2015 Summer Fellowship, University of Kansas, Department of Ecology and Evolutionary Biology (\$3,000 for Agamidae Phylogenomics)
- 2014 Revisiting Przhhevsky's Expeditions: Population Genetics in the Gobi Desert. National Geographic Society, Committee for Research and Exploration (\$20,000 for herpetological surveys and genetic work in the Gobi Desert)
- 2014 Travel Award, University of Kansas, Department of Biology (\$700 for museum specimen work in Germany)
- 2013 Field Research Award, University of Kansas, Department of Biology (\$2,000 for field work in Central Asia)
- 2009 Travel Award, Villanova University Department of Biology (\$700 for travel to the Annual Meeting of the American Society of Ichthyologists and Herpetologists. Portland, Oregon)



- 2008 Travel Award, Villanova University Department of Biology (**\$700** for travel to the First Annual Agamid Lizard Symposium, Bonn Germany)
- 2003 Rychman Undergraduate Research Endowment, La Sierra University (**\$1,000** grant for field research in the Seribuat Archipelago, Malaysia)
- 2003 Undergraduate Research Committee, La Sierra University (**\$400** grant for field research in the Seribuat Archipelago, Malaysia)
- 2002 Rychman Undergraduate Research Endowment, La Sierra University (**\$1,460** grant for field research in the Seribuat Archipelago, Malaysia)

Grants Submitted:

- 2014 Herpetological Surveys in the Mountains and Grasslands of Mongolia and Their Impact on Sustainable Economic and Agricultural Growth. NSF PEER Science Grant (**\$119,770**. Declined).
- 2014 The Evolution and Biogeography of the Dragon Lizard Family, Agamidae Inferred from Genomic Data. NSF Dissertation Improvement Grant (**\$19,491**. Declined)

PUBLICATIONS:

Awaiting Submission:

Grismer J. L., J. A. Schulte II, P. L. Wood Jr., P. Wagner, R. M. Brown. The ghost of islands past: dispersal, vicariance, and the evolution of the South and Southeast Asian dragon Lizards. *Molecular Phylogenetics and Evolution*.

Published:

2016

Grismer J. L., J. A. Schulte II, P. Wagner, S. Travers, M. D. Buehler, L. J. Welton, R. M. Brown. The Eurasian invasion: phylogenomic data reveal multiple Southeast Asian origins for Indian dragon lizards. *BMC Evolutionary Biology*.16: 1–11. (Featured Article)

Grismer L. L., E. S. H. Quah, P. L. Wood Jr., S. Anuar, A. Muin, H. Davis, M. L. Murdoch, **J. L. Grismer**, M. Cota, A. J. Cobos. Dragons in the mist: three new species of *Pseudocalotes* Fitzinger (Squamata: Agamidae) from the sky island archipelago of Peninsular Malaysia. *Zootaxa*. 4136: 3.

Grismer L. L., P. L. Wood Jr, A. Aowphol, M. Cota, M. S. Grismer, M. L. Murdoch, C. A. and **J. L. Grismer**. Out of Borneo, again and again: biogeography of the Stream Toad genus *Ansonia* Stoliczka (Anura: Bufonidae) and the discovery of the first limestone cave dwelling species. *Biological Journal of the Linnaean Society*. In Press.

2014

Grismer J. L., A. M. Bauer, L. L. Grismer, K. Thirakhupt, A. Aowphol, J. R. Oaks, P. L. Wood Jr., K. O. Chan, N. Thy, M. Cota, T. Jackman. Multiple origins of parthenogenesis, and a species phylogeny for the Southeast Asian butterfly lizards, *Leiolepis*. *Biological Journal of the Linnean Society* 113: 1080–1093.

Grismer, L. L., P. L. Wood Jr., S. Anuar, A. Riyanto, A. Norhayati, M. A. Muin, M. Sumontha, **J. L. Grismer**, K. O. Chan, E. S. H. Quah, O. S. A. Pauwels. Systematics and natural history of Southeast Asian rock geckos (genus *Cnemaspis* Strauch, 1887) with descriptions of eight new species from Malaysia, Thailand, and Indonesia. *Zootaxa* 3880: 1–147.

2012

Portik D. M. P. L. Wood Jr., **J. L. Grismer**, E. L. Stanley, T. R. Jackman. Identification of 104 rapidly-evolving nuclear protein-coding markers for amplification across scaled reptiles using genomic resources. *Conservation Genetic Recourses*. DOI 10.1007/s12686-011-9460-1.

Johnson C. B., E. S. Quah, S. Anuar, M. A. Muin, P. L. Wood Jr., **J. L. Grismer**, L. F. Greer, K. O. Chan, N. Ahamd, A.M. Bauer, L.L. Grismer. Phylogeography, geographic variation, and taxonomy of the bent-toed gecko *Cyrtodactylus quadrivirgatus* Taylor, 1962 from Peninsular Malaysia with the description of a new swamp dwelling species. *Zootaxa* 3406: 39–58.

Grismer, L. L. P. L. Wood Jr., E. S. H. Quah, S. Anuar, M. A. Muin, M. Sumontha, A. Norhayati, A. M. Bauer, S. Wangkulangkul, **J. L. Grismer**, O. S. G. Pauwels. A phylogeny and taxonomy of the Thai-Malay Peninsula bent-toed geckos of the *Cyrtodactylus pulchellus* complex (Squamata: Gekkonidae): combined morphological and molecular analyses with descriptions of seven new species. *Zootaxa* 3520: 1–55.

2011

Bauer, A. M., J. F. Parham, R. M. Brown, B. L. Stuart, L. L. Grismer, T. J. Papenfuss, W. Böhme, J. M. Savage, S. Carranza, **J. L. Grismer**, P. Wagner, A. Schmitz, N. B. Ananjeva, R. F. Inger. Availability of new bayesian-delimited gecko names and the importance of character-based species descriptions. *Proceedings of the Royal Society B* 278: 490–492.

Chan K. O., L. L. Grismer, S. Anuar, E. Quah, **J. L. Grismer**, P. L. Wood Jr., M. A. Muin, N. Ahmad. A new species of *Chiromantis* Peters 1854 (Anura: Rhachophoridae) from Perlis state park in extreme northern Peninsular Malaysia with additional herpetofaunal records for the park. *Russian Journal of Herpetology* 18: 4: 253-259.

Grismer L. L., **J. L. Grismer**, P. L. Wood, Jr., V. T. Ngo, T. Neang, K. O. Chan. Herpetology on the fringes of the Sunda shelf: A discussion of discovery, taxonomy, and biogeography. *Bonner Zoologische monographien*: 57.

Chan. K. O., L. L. Grismer, **J. L. Grismer**. A new insular, endemic frog of the genus *Kalophrynus* Tschudi, 1838 (Anura: Microhylidae) from Tioman Island, Pahang, Peninsular Malaysia. *Zootaxa*. 3123: 60–68.

- Rooijen, J. V., P. L. Wood Jr., **J. L. Grismer**, L. L. Grismer, W. Grossmann. Color pattern dimorphism in the colubrid snake *Oligodon purpurascens* (Schlegel, 1837) (Reptilia: Squamata). *Russian Journal of Herpetology* 18: 3: 215–220.
- Quah, E. S., S. Anuar, L. L. Grismer, M. A. Muin, K. O. Chan, **J. L. Grismer**. Preliminary checklist of the herpetofauna of Pulau Jejerak, Penang Malaysia. *Malaysian Nature Journal* 63: 3: 595–600.
- Grismer L. L., E. Quah, S. Huat, C. D. Siler, K. O. Chan, P. L. Wood Jr, **J. L. Grismer**, S. Anuar, M. Sah, N. Ahmad. Peninsular Malaysia's first limbless lizard: a new species of skink of the genus *Larutia* (Böhme) from Pulau Pinang with a phylogeny of the genus. *Zootaxa* 2799: 29–40.
- Savage, A. E., L. L. Grismer, S. Anuar, K. O. Chan, **J. L. Grismer**, E. Quah, M. A. Muin, A. Norhayati, M. Lenker, K. R. Zamudio. First record of *Batrachochytrium dendrobatidis* infecting four frog families from Peninsular Malaysia. *EcoHealth* DOI: 10.1007/s10393-011-0685-y.

2010

- Grismer J. L.** and Grismer L. L. Who's your mommy? Identifying maternal ancestors of asexual species of *Leiolepis* Cuvier, 1829 and the description of a new endemic species of asexual *Leiolepis* Cuvier, 1829 from Southern Vietnam. *Zootaxa* 2433: 47–61.
- Tri, N. V., L. L. Grismer, **J. L. Grismer**. A new species of *Cyrtodactylus* Gray, 1827 (Squamata: Gekkonidae) in Phu Quoc national park, Kien Giang Biosphere Reserve, southwestern Vietnam. *Zootaxa* 2604: 37–51.
- Grismer L. L., M. Sumontha, M. Cota, **J. L. Grismer**, P. L. Wood Jr., O. S. G. Pauwels, K. Kunya. A revision and redescription of the rock gecko *Cnemaspis siamensis* (Taylor 1925) (Squamata: Gekkonidae) from Peninsular Thailand with descriptions of seven new species. *Zootaxa* 2576: 1–55
- Chan K. O., L. L. Grismer, S. Anuar, E. Quah, M. A. Muin, A. E. Savage, **J. L. Grismer**, A. Norhayati, A. C. Remigo, L. F. Greer. A new endemic rock gecko *Cnemaspis* Strauch 1887 (Squamata: Gekkonidae) from Gunung Jerai, Kedah, northwestern Peninsular Malaysia. *Zootaxa* 2576: 59–68.
- Chan, K. O., L. L. Grismer, M. Matsui, K. Nishikawa, P. L. Wood Jr., **J. L. Grismer**, D. Belabut, A. Norhayati. Herpetofauna of Gunung Panti Forest Reserve, Johor, Peninsular Malaysia. *Tropical Life Sciences Research* 21: 1: 75–86.
- Grismer, L. L., K. O. Chan, E. S. A. Quah, M. A. Muin, A. E. Savage, **J. L. Grismer**, A. Norhayati, L. F. Greer, A. C. Remigio Another new, diminutive Rock Gecko (*Cnemaspis* Strauch) from Peninsular Malaysia and a discussion of resource partitioning in sympatric species pairs. *Zootaxa* 2569: 55–66.
- Wood Jr., P. L., L. L. Grismer, **J. L. Grismer**, N. Thy, C. Thou, J. Holden. A new cryptic species of *Acanthosaura* Gray, 1831 (Squamata: Agamidae) from Thailand and Cambodia. *Zootaxa* 2488: 22–38.
- Grismer L. L., S. Anuar, E. Quah, M. A. Muin, K. O. Chan, **J. L. Grismer**, A. Norhayati. A new spiny, prehensile-tailed species of *Cyrtodactylus* (Squamata: Gekkonidae) from Peninsular Malaysia with a preliminary hypothesis of relationships based on morphology. *Zootaxa* 2625: 40–52

Grismer, L. L., K. O. Chan, **J. L. Grismer**, P. L. Wood, A. Norhayati. A checklist of the herpetofauna of the banjaran bintang, Peninsular Malaysia. *Russian Journal of Herpetology* 17: 2: 147–160.

Grismer, J. L., L. L. Grismer, C. Thou. A new species of *Cnemaspis* *strauch* 1887 (Squamata: Gekkonidae) from southwestern Cambodia. *Journal of Herpetology* 44: 28–36.

Grismer, L. L., N. V. Tri, **J. L. Grismer**. A colorful new species of insular rock gecko (*Cnemaspis* *Strauch* 1887) from southern Vietnam. *Zootaxa* 2352: 46–58.

Thy, N., L. L. Grismer, K. O. Chan., **J. L. Grismer**, P. L. Wood Jr., T. M. Youmans. First report on the herpetofauna of Dalai Mountain in Phnom Samkos wildlife sanctuary, in the southwestern the Cardamom Mountains, Cambodia. *Cambodian Journal of Natural History* 2: 127–143.

2009

Wood Jr., P. L., **J. L. Grismer**, L. L. Grismer, A. Norhayati, K. O. Chan, A. M. Bauer. Two new montane species of *Acanthosaura* Gray, 1831 (Squamata: Agamidae) from Peninsular Malaysia. *Zootaxa* 2012: 28–46.

Ngo, V. T., A. M. Bauer, P. L. Jr. Wood, **J. L. Grismer**. A new species of *Gekko* *Laurenti*, 1768 (Squamata: Gekkonidae) from Dong Nai Province, Southeastern Vietnam. *Zootaxa* 2238: 33–42.

Grismer, L. L., P. L. Jr. Wood, **J. L. Grismer**. A New Insular Species of Skink of the Genus *Sphenomorphus* *Strauch* 1887 (Squamata: Scincidae) from Pulau Perhentian Besar, Terengganu, Peninsular Malaysia. *Tropical Life Science Research* 20: 1.

Grismer, L. L., N. Ahamad, C. K. Onn, D. Belabut, M. A. Muin, P. L. Wood Jr., **J. L. Grismer**. Two new diminutive species of *Cnemaspis* *Strauch* 1887 (Squamata: Gekkonidae) from Peninsular Malaysia. *Zootaxa* 2019: 40–56.

Chan, K. O., L. L. Grismer, P. L. Jr. Wood, **J. L. Grismer**, A. Norhayati. Preliminary checklist of the herpetofauna of Pulau Besar, Melaka, Malaysia. *Tropical Life Science Research* 20: 1.

2008

Tri, N. V., L. L. Grismer **J. L. Grismer**. A new endemic cave dwelling species of *Cyrtodactylus* *Gray*, 1827 (Squamata: Gekkonidae) in Kien Giang Biosphere Reserve, Southwestern Vietnam *Zootaxa* 1967: 53–62.

Wood Jr., P. L., **J. L. Grismer**, M. A. Muin. *Lygosoma bowringi*. Geographical Range Extension. *Herpetological Review* 39: 483.

Grismer, L. L., **J. L. Grismer**, P. L. Wood Jr., K. O. Chan. The distribution, taxonomy, and redescription of the geckos *Cnemaspis affinis* (Stoliczka, 1887) and *C. flavolineata* (Nicholls, 1949) with descriptions of a new montane species and two new lowland, karst dwelling species from Peninsular Malaysia. *Zootaxa* 1931: 1–24.

Grismer, L. L., K. O. Chan, **J. L. Grismer**, P. L. Wood Jr. Three new species of *Cyrtodactylus* from Peninsular Malaysia. *Zootaxa* 1921: 1–23.

Grismer, L. L., N. Thy, C. Thou, **J. L. Grismer**. Checklist of the amphibians and reptiles of the Cardamom Region of Southwestern Cambodia. *Cambodian Journal of Natural History* 1: 12–8.

Grismer, L. L., N. V. Tri, **J. L. Grismer**. A new species of pitviper of the genus *Cryptelytrops* (Squamata: Viperidae) from a small island off the southern coast of Vietnam. *Zootaxa* 1715: 57–68.

Grismer, L. L., Neang, T., Chav, T., Wood, Jr., P. L., Oaks, J. R., Holden, **J. L., Grismer**, Szutz, T. R., Youmans, T. M. Additional amphibians and reptiles from the northwestern Cardamom Mountains, Cambodia, with comments on their taxonomy and the discovery of three new species. *The Raffles Bulletin of Zoology* 56: 161–175.

2007

Grismer L. L., **J. L. Grismer**, A. Pounce, P. L. Wood, Jr, T. M. Youmans, T. Neang, T. Chav, J. Daltry, and Kaiser, K. Report on the herpetofauna of Phnom Aural, Cambodia's highest mountain. *Hamadryad* 31: 2: 216–241.

2006

Grismer, L. L., **J.L. Grismer**, J. A. McGuire. A New Species of Pitviper of the Genus *Popeia* (Squamata: Viperidae) from Pulau Tioman, Pahang, West Malaysia. *Zootaxa* 1305: 1–19.

Grismer, L. L., T. Youmans, P. L. Wood, Jr., **J. L. Grismer**. Checklist of the herpetofauna of the Seribuat Archipelago, West Malaysia with comments on biogeography, natural history and adaptive types. *Raffles Bulletin of Zoology* 54: 157–180.

2004

Grismer, J. L., L. L. Grismer, I. Das, N. S. Yaakob, L. B. Liat, T. M. Leong, T. M. Youmans, H. Kaiser. Species diversity and checklist of the herpetofauna of Pulau Tioman, Peninsular Malaysia, with a preliminary overview of habitat utilization. *Asiatic Herpetological Research* 10: 244–276.

Grismer, L. L., **J. L. Grismer**, T. M. Youmans. A new species of *Leptolalax* (Anura: Megophryidae) from Pulau Tioman, West Malaysia. *Asiatic Herpetological Research* 10: 8–11.

Grismer, L. L., J. Sukuaran, **J. L. Grismer**, T. M. Youmans, P. L. Wood, Jr, R. Johnson. Report on the herpetofauna from the Temengor forest reserve, Perak, West Malaysia. *Hamadryad* 29: 15–32.

2003

Grismer, J. L., T. M. Leong, N. S. Yaakob. Two new Sundaland skinks of the genus *Larutia* and their phylogenetic relationships. *Herpetologica* 59: 552–564.

Wood Jr., P. L., T. R. Szutz, **J. L. Grismer**, T. M. Youmans, L. L. Grismer. First report on the herpetofauna of Pulau Sembilang and Pulau Seribuat, Pahang, West Malaysia. *Hamadryad* 27: 284–285.

Wood Jr., P. L., T. M. Youmans, **J. L. Grismer**, J. Wheatley, S. Wright, C. Valdivia, M. Pounce, L. Escobar, S. Amin, P. Baker, J. Bernard, S. Looper, N. Marsh, L. Martin, N. Padilla, R. Rosser, A.

Srivastava, V. Srivastava, X. Wright, L. S. Yeen, H. Kaiser, L. L. Grismer. 2003. First report of the herpetofauna of Pulau Sibul, Johor, West Malaysia. *Hamadryad* 28: 116–119.

2002

Grismer, J. L., R. A. Escobar III, and T. M. Youmans. *Theloderma horridum*. Geographic Distribution. *Herpetological Review* 33: 222.

Grismer, J. L., C. Rasmussen, and J. A. McGuire. *Sibynophis melanocephala*. Geographic Distribution. *Herpetological Review* 34: 266.

Grismer, J. L., G. Powels, T. M. Youmans. *Draco quinquefasciatus*. Geographic Distribution. *Herpetological Review* 33: 65.

Escobar III, R. A., **J. L. Grismer**, T. M. Youmans. *Kalophrynus pleurostigma*. Geographic Distribution. *Herpetological Review* 33: 317.

Youmans, T. M., R. Escobar III, **J. L. Grismer**. *Eridiphas slevini*. Geographic Distribution. *Herpetological Review* 33: 324.

Leong, T. M., L. L. Grismer, **J. L. Grismer**. *Polypedates colletti*. Geographic Distribution. *Herpetological Review* 33: 62.

Youmans, T. M., **J. L. Grismer**, R. A. Escobar III, L. L. Grismer, R. Johnson. First report on the herpetofauna of Pulau Pemanggil, Johor, West Malaysia. *Hamadryad* 27: 01.

Escobar III, R. A., **J. L. Grismer**, T. M. Youmans, Perry L. Wood, Seth D. Kendall, J. Castro, T. Magi, C. Rasmussen, T. R. Szutz, S. M. Hover, D. Morgan, C. Raynor, K. McCloskey, N. Izvernari, A. Hunter, J. M. Bernard, N. Hinojosa, T. Dyer, J. Anlauf, J. Martinez, S. Andreiko, R. Gregory, L. S. Yeen, W. Wuertz, H. Kaiser, L. L. Grismer. The first report on the herpetofauna of Pulau Tinggi, Johor, West Malaysia. *Hamadryad* 27: 259–262.

Norsham, Y., T. M. Leong, **J. L. Grismer**, L. L. Grismer, B. L. Lim. The herpetofauna diversity in the Forest Research Institute Malaysia (FRIM). *Proceedings of the International Conference on Forestry and Forestry Products Research*, Kuala Lumpur.

2001

Grismer, L. L., N. S. Yaakob, B. L. Lim, T.-M. Leong, I. Das, R. A. Sosa, **J. L. Grismer**, K. M. Krane, R. E. Diaz, S. V. Figueroa, C. A. Ledbetter, S. C. Newbold, C. P. Patel, J. Castro, R. A. Escobar III, S. Guerrero, J. W. Pinedo, J. Trujillo, H. Kaiser. First report on the herpetofauna of Pulau Aur, Johor, West Malaysia. *Hamadryad* 26: 350–353.

Grismer, L. L., N. S. Yaakob, B. L. Lim, T.-M. Leong, I. Das, R. A. Sosa, **J. L. Grismer**, K. M. Krane, R. E. Diaz, S. V. Figueroa, C. A. Ledbetter, S. C. Newbold, C. P. Patel, J. Castro, R. A. Escobar III, S. Guerrero, J. W. Pinedo, P. A. Jones, and H. Kaiser. Report on the herpetofauna of Pulau Tulai, West Malaysia. *Hamadryad* 26: 369–371.

2000

Grismer, J. L. *Thamnophis validus celano*. Diet. *Herpetological Review* 31: 106.

1995

Grismer, J. L., M. T. Hainline, and L. L. Grismer. *Hyla cadaverina*. Geographic Distribution. *Herpetological Review* 26: 152.

1994

Grismer, J. L. Food observations on the endemic Sierra San Pedro Martir Garter Snake (*Thamnophis elegans hueyi*) from Baja California, Mexico. *Herpetological Natural History* 2: 107–108.

POPULAR SCIENCE ARTICLES & BOOK REVIEWS:

Grismer, J. L. 2009. Battle of the sexes: asexuality verses sexuality. *IRCF Reptiles and Amphibians* 16.

Grismer, J. L. 2008. Book review of *Amphibians and Reptiles of Bali*. *Herpetological Review* 39: 124–125.

FIELD RESEARCH EXPERIENCE:

Herpetological field research and biodiversity assessment in the following areas:

Asia: Brunei (2003), Cambodia (2005-2012), China (2001), East Malaysia (2001-2003), Peninsular Malaysia (2001-2012), Mongolia (2014), Singapore (2001-2003), Thailand (2008, 2011), and Vietnam (2007-09).

Latin America: Mexico, Baja California and islands in the Gulf of California (1986-2002). Dominican Republic (1997), Puerto Rico (1997), and Honduras (1999).

South Pacific: Fiji (2011).

United States: AL, AZ, CA, ID, KS, LA, OK, MO, NM, NC, NY, TX, UT, PA

TEACHING AND CURATORIAL EXPERIENCE:

Teaching Assistant, University of Kansas (Lawrence, Kansas). Spring 2016. Biology for Non-Majors, BIO 101 (Lab).

Teaching Assistant, University of Kansas (Lawrence, Kansas). Spring 2016. Herpetology, BIO 583/783 (Lecture and Lab).

Teaching Assistant, University of Kansas (Lawrence, Kansas). Fall 2015. Biology for Non-Majors, BIO 102 (Lab).

Teaching Assistant, University of Kansas (Lawrence, Kansas). Spring 2015. Biology for Non-Majors, BIO 101 (Lab).

Teaching Assistant, University of Kansas (Lawrence, Kansas). Fall 2014. Anatomy and Physiology, BIO 440 and 442 (Lab).

Teaching Assistant, University of Kansas (Lawrence, Kansas). Spring 2014. Herpetology, BIO 583/783 (Lecture and Lab)

- Teaching Assistant**, University of Kansas (Lawrence, Kansas). Spring 2014. Anatomy and Physiology, BIO 440 and 442 (Lab).
- Curatorial Assistant**, University of Kansas, Biodiversity Institute, Division of Herpetology (Lawrence, Kansas). Fall, 2013.
- Curatorial Assistant**, University of Kansas, Biodiversity Institute, Division of Herpetology (Lawrence, Kansas). Summer, 2013.
- Teaching Assistant**, University of Kansas (Lawrence, Kansas). Spring 2013. Honors Biology, BIO 153 (Lecture).
- Teaching Assistant**, University of Kansas (Lawrence, Kansas). Fall 2012. General Biology, BIO 150 (Lab).
- Teaching Assistant**, University of Kansas (Lawrence, Kansas). Spring 2012. Anatomy and Physiology, BIO 440 and 442 (Lab).
- Teaching Assistant**, University of Kansas (Lawrence, Kansas). Fall 2011. Anatomy and Physiology, BIO 440 and 442 (Lab).
- Teaching Assistant**, University of Kansas (Lawrence, Kansas). Spring 2011. Anatomy and Physiology, BIO 440 and 442 (Lab).
- Teaching Assistant**, University of Kansas (Lawrence, Kansas). Fall 2010. Anatomy and Physiology, BIO 440 and 442 (Lab).
- Teaching Assistant**, Villanova University (Villanova, Pennsylvania). Spring 2009. Comparative Anatomy, BIO 4673 (Lab).
- Teaching Assistant**, Villanova University (Villanova, Pennsylvania). Fall 2008. Anatomy and Physiology, BIO 1205 (Lab).
- Teaching Assistant**, Villanova University (Villanova, Pennsylvania). Spring 2008. Anatomy and Physiology, BIO 1205 (Lab).
- Instructor**, La Sierra University (California, Brunei, and Malaysia). Summer 2003. Tropical Field Biology (Lecture and Lab).
- Instructor**, La Sierra University (California and Malaysia). Summer 2002. Tropical Field Biology (Lecture and Lab).
- Instructor**, La Sierra University (California, Singapore, and Malaysia). Summer 2001. Tropical Field Biology (Lecture and Lab).
- Teaching Assistant**, La Sierra University (California and Honduras). Summer 1999. Tropical Field Biology (Lecture and Lab).
- Teaching Assistant**, La Sierra University (Riverside, California). Spring 1997. Herpetology (Lab).

UNDERGRADUATE MENTORING:

WORKSHOPS:

Introduction to Phylogenetics: Methods and Their Applications. February 12–15th, 2015 and 2016. This was a workshop provided to students from the University of Kansas and La Sierra University, and designed by my fellow graduate student, Chan Kin Onn and me. Objectives included providing undergraduates with a basic introduction to phylogenetic methods and the theory behind them. This included instruction in the primary methods of phylogenetic inference, with hands-on training in the use of various software packages using students' own, or provided, datasets.

Introduction to Phylogenetics: Phylogeography and Higher Level Phylogenetics. May 22–25th, 2015 and 2016. This was a three-day workshop provided to students from the University of Kansas and La Sierra University, and designed by my fellow graduate student, Chan Kin Onn and me. Objectives included providing undergraduates with a basic introduction to the differences between Phylogeography and higher-level phylogenetic questions. This included instruction on how to design a study within each

discipline, the type of data each kind of question requires, and introduced them to basic concepts in population genetics. We also taught them how to download and align data from GeneBank and perform time-calibrated phylogenetic analyses with the student's own datasets, a provided one, or one downloaded earlier in the workshop.

UNDERGRADUATE STUDENTS:

Ms. Chelséa Johnson:

Laboratory: Trained in taking and analyzing morphological data for taxonomic descriptions in lizards.

Fieldwork: Trained in herpetological field surveys in various areas of Southeast Asia.

Current position: Graduated from medical school in Dallas in the spring of 2015.

Publications:

Johnson C. B., Quah E., Shahrul Anuar S. H., Muin M. A., Wood, Jr. P. L., Grismer J. L., Greer L. F., Chan K. O., Norhayati A., Bauer A. M., Grismer L. L. 2012. Phylogeography, geographic variation, and taxonomy of the Bent-toed Gecko *Cyrtodactylus quadrivirgatus* Taylor, 1962 from Peninsular Malaysia with the description of a new swamp dwelling species. *Zootaxa* 3406: 39–58.

Ms. Taylor Broadhead:

Laboratory: Trained in taking and analyzing morphological data for taxonomic descriptions in frogs.

Presentations: “Species boundaries of a Southeast Asian frog species, *Rachophorus appendiculatus*”. Meeting for the Society for the Study of Amphibians and Reptiles. 2015, Lawrence, Kansas. Poster.

Current Position: Graduated from the University of Kansas in spring of 2015 and is now a graduate student in herpetology at Purdue University. Taylor will be studying the soundscape of sky islands across biomes with Dr. Bryan Pijanowski.

Grants:

National Science Foundation Graduate Research Fellowship Proposal to study acoustic coevolution between Orcas and Harbor Seals for **96,000\$ (Awarded)**

Mr. Matthew Buehler:

Laboratory: Trained in traditional DNA extraction, PCR amplification, Sanger sequencing Protocols, and analyzing sequence data with phylogenetic methods.

Fieldwork: Seven weeks of herpetological surveys in the Mongolian Gobi desert in the summer of 2014.

Presentations: “The phylogenetic placement of *Ogmodon* (Elapidae) and discussion of colonization patterns of Fiji”. Meeting for the Society for the Study of Amphibians and Reptiles. 2015, Lawrence, Kansas. *Honorable mention in the Siebert Award Competition.*

Current Position: Matthew Graduate from KU in the summer of 2016 and he will be joining Dr. Aaron Bauer's lab at Villanova University in fall of 2016 to begin work on his Masters degree. Matthew will be joining herpetological surveys in the Mongolian Gobi in the summer of 2017.

Grants:

Undergraduate Research Award for **1000\$** through the University of Kansas to study the “Geographic and genetic diversity in the genus *Phrynocephalus*: speciation and divergence among habitat types in the Gobi desert of Mongolia.” **(Awarded)**

National Science Foundation Graduate Research Fellowship Proposal to study hybrid-zone genetics of *Phrynocephalus* species in Mongolia for **114, 000\$ (Submitted)**

Publications:

Grismer J. L., J. A. Schulte II, P. Wagner, S. Travers, **M. D. Buehler**, L. J. Welton, R. M. Brown. 2016. The Eurasian invasion: phylogenomic data reveal multiple Southeast Asian origins for Indian dragon lizards. *BMC Evolutionary Biology*.16: 1–11. (Featured Article)

Buehler, M. D., Zoljarcal P., Tushig M., Munkhbayar K., Munkhbaatar M., Grismer L. L., Brown R. M., *Grismer J. L.* Results from a recent expedition to the Mongolian Gobi Desert and an updated checklist for the herpetofauna of Mongolia and the Gobi Desert. *Checklist* awaiting submission.

Mr. Matthew Murdoch:

Laboratory: Trained in taking and analyzing morphological data for taxonomic descriptions in lizards and analyzing sequence data with phylogenetic methods.

Presentations: Phylogeographic substructuring of the *Cyrtodactylus intermedius* group across the Cardomom Mountains of Indochina as well as the independent evolution and conservation of cave ecomorphs. Meeting for the Society for the Study of Amphibians and Reptiles. 2015, Lawrence, Kansas.

Current Position: Matthew is currently finishing his final year at La Sierra University and will be applying for graduate school in the fall of 2017 to continue his undergraduate research on *Cyrtodactylus*.

Publications:

Grismer L. L., E. S. H. Quah, P. L. Wood Jr., S. Anuar, A. Muin, H. Davis, **M. L. Murdoch**, J. L. Grismer, M. Cota, A. J. Cobos. Dragons in the mist: three new species of *Pseudocalotes* Fitzinger (Squamata: Agamidae) from the sky island archipelago of Peninsular Malaysia. *Zootaxa*. 4136: 3.

Grismer L. L., P. L. Wood Jr, A. Aowphol, M. Cota, M. S. Grismer, **M. L. Murdoch**, C. A. and J. L. Grismer. Out of Borneo, again and again: biogeography of the Stream Toad genus *Ansonia* Stoliczka (Anura: Bufonidae) and the discovery of the first limestone cave dwelling species. *Biological Journal of the Linnaean Society*. In Press.

Mr. Hayden Davis:

Laboratory: Trained in taking and analyzing morphological data for taxonomic descriptions in frogs and analyzing sequence data with phylogenetic methods.

Presentations: Historical biogeography and phylogeny of a new Stream Toad of the genus *Ansonia* Stoliczka, 1870 (Anura: Bufonidae) from a montane region in Peninsular Malaysia. Meeting for the Society for the Study of Amphibians and Reptiles. 2015, Lawrence, Kansas.

Current Position: Hayden graduate from La Sierra Univeristy in the summer of 2016 and will joining Drs. Aaron Bauer and Todd Jackman's labs at Villanova University in fall of 2016 to begin work on his Masters degree.

Publications:

H. R. Davis, L. L. Grismer, R. L. Klabacka, M. A. Muin, E. S. H. Quah, S. Anuar, P. L. Wood jr., J. W. Sites. 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

Grismer L. L., E. S. H. Quah, P. L. Wood Jr., S. Anuar, A. Muin, **H. Davis**, M. L. Murdoch, J. L. Grismer, M. Cota, A. J. Cobos. Dragons in the mist: three new species of *Pseudocalotes* Fitzinger (Squamata: Agamidae) from the sky island archipelago of Peninsular Malaysia. *Zootaxa*. 4136: 3.

SCIENTIFIC PRESENTATIONS:

- 2015 “The Great Exchange: Dispersal, Vicariance, and the Biogeography of the Draconinae.” Meeting of the Society for the Study of Amphibians and Reptiles. Lawrence, Kansas. *Honorable Mention in the Siebert Award.*
- 2014 “Where Did All these Species Come From? A Radiation of Fijian Scincid Lizards.” Invited speaker for the Department of Biology at Avila University. Kansas City, Missouri.
- 2013 “Dispersal Across the Pacific in Fijian Scincid Lizards.” Invited speaker for the Department of Biology at La Sierra University. Riverside, California.
- 2011 “Sex on the Beach: Phylogeny, Biogeography and the Origin of Parthenogenesis in *Leiolepis*.” Invited speaker for the Department of Biology at La Sierra University. Riverside, California.
- 2010 “Asexuality on the Beach: Phylogeny, Biogeography and the Origin of Parthenogenesis in *Leiolepis*.” Invited speaker at the Stowers Institute for Medical Research. Kansas City, Missouri.
- 2009 “Asexuality on the Beach: Phylogeny, Biogeography and the Origin of Parthenogenesis in *Leiolepis*.” Annual Meeting of the American Society of Ichthyologists and Herpetologists. Portland, Oregon.
- 2009 “Rumble in the Jungle: The Displacement of *Leiolepis belliana* from Northwestern Peninsular Malaysia by the Parthenogenic Species *Leiolepis triploida*.” Tropical Vertebrates Symposium. Bonn, Germany.
- 2008 “Preliminary Phylogeography of *Leiolepis belliana* and *Leiolepis reevesii*.” Annual Meeting of the American Society of Ichthyologists and Herpetologists. Montreal, Canada.
- 2008 “Who’s? Who: The Specific Status Of *Leiolepis belliana* and *Leiolepis reevesii*.” First Annual Agamid Lizard Symposium. Bonn, Germany.
- 2007 “Almost to the top of Phnom Samkos and Phnom Aural. Fieldwork in Cambodia.” Museum Seminar, at Louisiana State Museum of Natural Sciences. Baton Rouge, Louisiana.
- 2006 “Geckos and Pitvipers: The Biogeography of the Seribuat Archipelago.” Invited speaker for the Department of Biology, La Sierra University. Riverside, California.
- 2005 “A New species of Pitviper, and Pitviper Natural History on Pulau Tioman, West Malaysia.” Invited presentation for the Regional Symposium on Environment and Natural Resources. Kuala Lumpur, Malaysia.
- 2003 “The Process of Field Work in Peninsular Malaysia.” Inaugural Meeting of the La Sierra University Financial Funding Board. Riverside, California.
- 2002 “Two New Species of the Southeast Asian Genus *Larutia* with a Phylogenetic Analysis.” Joint meetings of the American Society of Ichthyologists and Herpetologist, Society for the Study of Amphibians and Reptiles, and the Herpetologists' League. Kansas City, Missouri.
- 2002 “Natural History and Systematics of the Skink *Larutia*.” Invited presentation for the Malaysian Nature Society. Kuala Lumpur, Malaysia (Invited by the Forest Research Institute of Malaysia).
- 2001 “Species Diversity and Biogeography of the Herpetofauna of Pulau Tioman, Peninsular Malaysia.” Annual Meeting of the American Society of Ichthyologists and Herpetologists. Indianapolis, Indiana.

COMMUNITY OUTREACH:**Teaching:**

One of two liaisons and herpetological panel experts for the University of Kansas Biodiversity Institute for the Expeditionary Learning program (2013 & 2015).

Presentations:

- 2015 “Where Did All these Lizards Come From? Patterns of Dispersal and Colonization Across the Pacific.” Invited speaker by the Cornell Herpetological Society, Cornell University. Ithaca, New York.
- 2015 “Tolkien in Scientific Nomenclature: Bridging the Gap Between Science and Middle Earth.” Invited speaker for the “34th Nerd Nite of Lawrence” presentation. Lawrence, Kansas.
- 2014 “Rock Archipelagos in an Ocean of Sand Dunes: Herpetology in the Gobi Desert.” Invited speaker by the Cornell Herpetological Society, Cornell University. Ithaca, New York.
- 2009 “Asexuality on the Beach: Phylogeny, Biogeography and the Origin of Parthenogenesis in *Leiolepis*.” Invited speaker by the Cornell Herpetological Society at Cornell University. Ithaca, New York.
- 2008 “An Introduction to Southeast Asian Herpetology.” Presented to the Cornell Herpetological Society, Cornell University. Ithaca, New York. Given at Villanova University, Pennsylvania.
- 2007 “What Can Biology Do For You.” Guest lecturer at Temecula Valley High School. Temecula, California.
- 2003 “Reptiles Around You.” Presentation, Hispanic Seventh Day Adventist Community Church of Boise, Idaho (In Spanish).
- 2002 “Amphibians and Reptiles of Hainan Island, China.” Turtle and Tortoise Society, Chino, California.
- 2002 “Amphibians and Reptiles of Hainan Island, China.” Southwestern Herpetological Society, California.
- 2002 “What Biology Can Do for You.” Freshman Orientation Night, La Sierra University. Riverside, California.
- 2001 “Amphibians and Reptiles of the South China Sea.” San Diego Herpetological Society, at the San Diego Zoo. San Diego, California.
- 2001 “Amphibians and Reptiles of Pulau Tioman, Malaysia.” Southwestern Herpetological Society. Chino, California.
- 1997 “Amphibians and Reptiles of the Dominican Republic.” Southwestern Herpetological Society, Hollywood, California.
- 1992 “Natural History of Amphibians and Reptiles of San Diego County, California.” Workshop, San Diego Natural History Museum. San Diego, California.

Television Appearances:

- 2004 Featured researcher on Animal Planet Television series: Reptile Kings.
- 2002 Featured researcher on National Geographic Television series: Snake Wranglers.

Web Appearances:

Appearance for the University of Kansas: <https://www.youtube.com/watch?v=hUyIsygGRM8>.

International Outreach:

- 2003 Herpetological consultant, World Wildlife Federation of Malaysia: Herpetofauna of the Temengor Forest Reserve, Perak, Malaysia.
- 2002 Herpetological consultant, World Wildlife Federation of Malaysia: Herpetological surveys in Cameron Highlands and Genting Highlands (Pahang) and Ulu Muda (Kedah) Malaysia.

JOURNAL REVIEWER:

Checklist, 2013
Copeia, 2014
Hamadryad, 2013
Herpetologica, 2005
Herpetological Review, 2002
Journal of Herpetology, 2015
Molecular Ecology, 2013
Molecular Phylogenetics and Evolution, 2009 and 2013
Zootaxa, 2009
Zookeys, 2010

PROFESSIONAL SOCIETY:

Society for the Study of Amphibians and Reptiles