**Phillip L. Skipwith, Ph.D.**

**University of Kentucky**

**Department of Biology**

**Thomas Hunt Morgan Building skipwithlab.com
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**Faculty Appointments**

**University of Kentucky** 8/20 – present

Assistant Professor Lexington, KY

Dept. of Biology

**Postdoctoral Appointments**

**American Museum of Natural History** 9/17 – 7/20

Herpetology Collections New York, NY

Advisor: Frank Burbrink, Ph.D.

Dept. of Herpetology

**Education**

**University of California, Berkeley** 8/11 - 8/17

**Ph.D. in Integrative Biology** Berkeley, CA

Advisor: Jim McGuire, Ph.D.

Museum of Vertebrate Zoology/

Dept. of Integrative Biology

**Villanova University** 8/09 - 7/11

**M.S. in Biology** Villanova, PA

Advisors: Aaron Bauer, Ph.D. & Todd Jackman, Ph.D.

Dept. of Biology

**Richard Stockton University of NJ** 9/04 - 5/08

**B.S. in Biology** Pomona, NJ

Advisor: Margaret Lewis, Ph.D.

Depts. of Biology and Geology

**Publications**

* **Skipwith, P. L.**, Oliver, P. M.(**In Review**) To Each Their Own: An Ecomorphologically Diverse Australasian Gecko Radiation Reveals Idiosyncratic Phenotypic Diversification Decoupled from Speciation. *Evolution*.
* Chang, L., **Skipwith, P. L.** (**Accepted**) Relatedness and the composition of communities over time: evaluating phylogenetic community structure in the late Cenozoic record of bivalves. Paleobiology.
* Oliver, P. M., Jolly, J. C., **Skipwith, P. L.**, Tedeschi, L. G., Gillespie, G. R. (**2020**) A new velvet gecko (Oedura: Diplodactylidae) from Groote Eylandt, Northern
Territory; highlighting another overlooked hotspot of vertebrate endemism in Northern Australia. Zootaxa.​
* Kuhn, A., **Skipwith, P. L.**, Overcast, I. (2020) Digest: An emerging model system for understanding ecomorphological convergence. Evolution: [**10.1111/evo.13935**](https://doi.org/10.1111/evo.13935).
* **Skipwith, P. L.**, Oliver, P. M., Bi, K. (2019) Relicts and radiations: Phylogenomics of an Australasian lizard clade with east Gondwanan origins (Gekkota: Diplodactyloidea). *Molecular Phylogenetics and Evolution*.
* Rosauer D.F., Blom M.P.K., Bourke G., Catalano S., Donnellan S., Gillespie G., Mulder E., Oliver P.M., Potter S., Pratt R., Rabosky D.L., **Skipwith, P.L.**, & Moritz, C. (2016) Phylogeographic hotspots and conservation priorities: an example from the Top End of Australia. *Biological Conservation,* 204, Part A: 83-93.
* **Skipwith, P. L.**, Bauer, A.M., Jackman, T. R., Sadlier, R. A. (2016) Old but not ancient: coalescent species tree of New Caledonian geckos reflects recent post-inundation diversification. *Journal of Biogeography***.**43: 1266-1276.
* **Skipwith, P. L.**, Oliver, P. (2014) A new *Gehyra* (Gekkonidae: Reptilia) from New Guinea with caudal ornamentation. *Zootaxa*. 3827(1): 057–066.
* Peñalba, J. V., Smith, L. L., Tonione, M. A., Sass, C., Hykin, S. M., **Skipwith, P. L.**, McGuire, J. A., Bowie, R. C. K., Moritz, C. (2014) Sequence Capture using PCR-generated Probes (SCPP): A cost-effective method of targeted high-throughput sequencing for non-model organisms. *Molecular Ecology Resources*. 14(5): 1000–1010.
* **Skipwith, P. L.**, Jackman, T., Whitaker, A., Sadlier, R., Bauer, A.M. (2014) New data on *Dierogekko* (Squamata: Gekkota: Diplodactylidae), with the description of a new species from Île Baaba, Province Nord, New Caledonia. *Mémoires du Muséum National d'Histoire Naturelle*. 204: 13-30.
* Oliver, P.M., **Skipwith, P. L.**, Lee, M.S.Y. (2014) Crossing the line: increasing body size in a trans-Wallacean lizard radiation (*Cyrtodactylus*, Gekkota). *Biology Letters*. 10(10): 1-4.
* Richards, S., Astrongatt, S., **Skipwith, P. L.** (2013) Herpetofauana of the Mt. Panié and Roches de la Ouaième regions, New Caledonia. *RAP Bulletin of Biological Assessment*, 97-102.

**Field Experience**

**Louisiana, USA – September 2019**: Collecting trip focusing on snakes for whole-genome research led by myself (American Museum of Natural History). Responsibilities included collection of voucher specimens and tissues as well as their preservation. Also coordinated doctoral students.

**Louisiana, USA – April 2019**: Collecting trip focusing on snakes for whole-genome research led by Frank Burbrink, Ph.D. (American Museum of Natural History) and Sara Ruane, Ph.D. (Rutgers University). Responsibilities included collection of voucher specimens and tissues as well as their preservation.

**Madagascar – November to December 2018**: General herpetology collection trip led by Christopher Raxworthy, Ph.D. (American Museum of Natural History). Responsibilities included collection of voucher specimens and tissues as well as their preservation.

**Dominican Republic – August 2016**: General herpetology collecting trip led by Ian Wang, Ph.D. (University of California, Berkeley) and Luke Mahler, Ph.D. (University of Toronto). Responsibilities included collection of voucher specimens and tissues as well as their preservation.

**Australia 2014 – October to December 2014**: General herpetology collecting trip led by Paul Oliver, Ph.D. (Australia National University). Northern Territory and Western Australia, Australia. Responsibilities included collection of voucher specimens and tissues as well as their preservation.

**Australia 2013 – September to November 2013**: General herpetology collecting trip led by Paul Oliver, Ph.D. (Australia National University). Northern Territory. Responsibilities included collection of voucher specimens and tissues as well as their preservation.

**New Caledonia – September to November 2010**: General herpetology collecting trip led by Ross Sadlier, Ph.D. (Australian Museum). Provinces Nord and Sud. Responsibilities included collection of voucher specimens and tissues as well as their preservation.

**Chile – December 2007 to January 2008**: Conservation research assessing population status of red knots (*Calidris canutus*), led by Daniel Hernandez, Ph.D. (Richard Stockton University of New Jersey). Responsibilities included conducting point surveys of shorebird densities.

**New Jersey, USA – June 2007 to July 2009**: Conservation research assessing migratory shorebird populations in the Delaware Bay. Conducted with the Audubon Society and Conservation International. Responsibilities included conducting point surveys of shorebird densities.

**Relevant Expertise**

**Phylogenetic/Phylogenomic Methods**: Familiar with the mechanics and implementation of a wide array of molecular and comparative phylogenetic analytical methods. Familiar with the R programming language.

**Sanger Sequencing**: Trained in the implementation and analysis of genetic data from traditional Sanger sequencing.

**High-Throughput Sequencing**: Experienced with high-throughput sequencing laboratory methods for downstream phylogenomics starting with the construction of reduced-representation libraries to sequence capture. Familiar with established bioinformatic pipelines for phylogenomic datasets.

**CT Scanning Methods**: Trained in the use of GE Phoenix CT scanning platforms. Well-versed in the use of reconstruction and segmentation software. CT scanning has focused on both osteology and soft tissue using iodine staining (DICE).

**Awards & Honors**

**Gerstner Postdoctoral Fellowship** 9/19 – 7/20

American Museum of Natural History: 1 year New York, NY

**NSF Postdoctoral Research Fellowship in Biology** 9/17-9/19

National Science Foundation: 2 years Washington, DC

**Graduate Division Conference Travel Grant** 6**/**17

University of California, Berkeley: $900 Berkeley, CA

**Louise Kellogg Fund** 6/17, 4/15, 4/14, 4/13, 3/12, & 9/11

Museum of Vert. Zoology, UC Berkeley: $900 Berkeley, CA

**Jerry O. Wolff Graduate Fellowship** 8/16

Museum of Vertebrate Zoology: $15,000 Berkeley, CA

**NSF DDIG** 1/16

National Science Foundation: $13,000 Washington, DC

**Sigma Xi Student Research Award** 4/15 & 4/14

UC Berkeley Sigma Xi Chapter: $1,000 total Berkeley, CA

**Summer Research Award** 6/15 & 4/13

Dept. Integrative Biology, UC Berkeley: $5,300 total Berkeley, CA

**Sigma Xi Student Research Award** 4/14

UC Berkeley Sigma Xi Chapter: $500 Berkeley, CA

**SSAR Siebert Student Paper Award 7/**13

JMIH: $200 Albuquerque, NM

**IMSD Graduate Fellowship** 5/12-5/14

Integrative Biology, UC Berkeley/NIH: $48,000 total Berkeley, CA

**Jerry O. Wolff Fund** 3/12

University of California, Berkeley: $2,000 Berkeley, CA

**Chancellor's Fellowship for Graduate Study** 8/11-8/13

University of California, Berkeley: $54,000 total Berkeley, CA

**Summer Research Fellowship** 6/11 & 6/10

Villanova University: $400 total Villanova, PA

**Graduate Student Travel Award** 5/11

Villanova University: $200 Villanova, PA

**Presidential Graduate Fellowship** 8/09

Villanova University: $26,000 total Villanova, PA

**Aker Foundation Award** 5/08

Atlantic County Audubon Society: $300 Absecon, NJ

**Fellowship for Distinguished Students** 6/07

Stockton College: $1,000 Pomona, NJ

**Presentations**

**Genomic Seminar** 7/20

California Academy of Sciences San Francisco, CA

Title: Phylogenomics and Macroevolutionary Dynamics of Australasian Geckos

**2019 Evolution (poster)** 6/19

Society for the Study of Evolution Providence, RI

Title: Phenotypic Diversification of Malagasy Gemsnakes and other Colubroids Revealed through High-Res CT Scans

**RGGS Seminar Series (talk)** 3/19

Richard Gilder Graduate School New York, NY

Title: Using Snakes and Geckos to Understand the Macroevolutionary Dynamics of Diverse Lineages

**2018 JMIH (talk)** 7/18

Joint Meeting of Ichthyologists and Herpetologists Rochester, NY

Title: Investigating Malagasy Gemsnake Macroevolutionary Dynamics Using X-Ray Computed Tomography

**CUNY Biology Seminar (talk)** 5/18

City University of NY New York, NY

Title: A New Phylogenomic Estimate of Australasian Geckos Reveals Complex Macroevolutionary Dynamics

**Villanova Phylogenetics Seminar (talk)** 4/18

Villanova University Villanova, PA

Title: Unlikely Lizards: Using Geckos and Snakes to Better Understand the Generation of Biodiversity

**Stockton Biology Seminar (talk)** 3/18

Richard Stockton University of NJ Pomona, NJ

Title: Unlikely Lizards: Using Geckos and Snakes to Better Understand the Generation of Biodiversity

**MVZ Lunch Seminar (talk)**  10/17

Museum of Vertebrate Zoology Berkeley, CA

Title: Molecules and Morphology - A New Phylogenomic Estimate for Australian Geckos Reveals Complex Macroevolutionary Dynamics

**2017 Evolution (poster)** 6/17

Society for the Study of Evolution Portland, OR

Title: The Phylogenomics and Macroevolutionary Dynamics of Diplodactyloid Geckos

**2016 JIMH (talk)** 7**/**16

Joint Meeting of Ichthyologists and Herpetologists New Orleans, LA

Title: Biogeography and diversification of the Australian gecko genus *Oedura*

**2015 ASIH (talk)** 7**/**15

American Society of Ichthyology and Herpetology Reno, NV

Title: Morphological convergence in diplodactyloid geckos

**2013 JMIH (talk)** 7/13

Joint Meeting of Ichthyologists and Herpetologists Albuquerque, NM

Title: Diversification rates of New Caledonian geckos inferred from a time-calibrated species tree

**2012 WHC (poster)** 8/12

7th World Congress of Herpetology Vancouver, BC, Canada

Title: Phylogeography of the New Caledonian gecko *Rhacodactylus auriculatus*

**2011 JMIH (talk)** 7/11

Joint Meeting of Ichthyologists and Herpetologists Minneapolis, MI

Title: Phylogenetics of New Caledonian diplodactylids inferred from multilocus data

**2010 JMIH (talk)** 7/10

Joint Meeting of Ichthyologists and Herpetologists Providence, RI

Title: Phylogenetics of New Caledonian geckos support mito-nuclear discordance

**Fall 2008 AERS Conference (poster)** 11/08

**Atlantic Estuarine Research Society Fairfax, VA**

**Title: Estuarine pond use by the diamondback terrapin (*Malaclemys terrapin*) in coastal New Jersey, USA**

**6th Annual TSA Conference (poster)** 9/08

Turtle Survival Alliance Tucson, AZ

**Title: Estuarine pond use by the diamondback terrapin (*Malaclemys terrapin*) in coastal New Jersey, USA**

**Teaching Appointments**

**Natural History of the Vertebrates (TA)** 1/17-5/17

University of California, Berkeley Berkeley, CA

**Natural History of the Vertebrates (TA)** 1/16-5/16

University of California, Berkeley Berkeley, CA

**Herpetology (TA)** 1/15-5/15

University of California, Berkeley Berkeley, CA

**Biology for Non-Majors (co-lecturer)** 1/13-5/13

University of California, Berkeley Berkeley, CA

**Introductory Biology 1B (TA)** 8/11- 12/11

University of California, Berkeley Berkeley, CA

**Museum Appointments**

**Curatorial Assistant** 8/15 – 12/15

Museum of Vertebrate Zoology, UC Berkeley Berkeley, CA

**Fossil Preparator** 1/09 – 6/09

Academy of Natural Sciences of Drexel University Philadelphia, PA

**Diversity and Outreach**

**SSAR DEI Committee** 7/20 – present

SSAR Diversity, Equality, and Inclusion Various

**SRMP** 9/18 – 6/20

Science Research Mentoring Program New York, NY

**BASIS** 9/11 – 6/17

Bay Area Scientists in Schools Berkeley, CA