

Curriculum Vitae

Daniel M. Portik

CONTACT

Dr. Daniel M. Portik

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WEBSITES AND SOCIAL MEDIA

Coding Repository: <https://github.com/dportik>

Research profiles: [Google Scholar](#)
[ResearchGate](#)
[Academia.edu](#)

EDUCATION

- 2009-2015: Ph.D., Integrative Biology
Museum of Vertebrate Zoology and Department of Integrative Biology
University of California, Berkeley
Advisor: Dr. Jim McGuire
- 2007-2009: M.S., Evolutionary Biology
Department of Biology, Villanova University
Advisor: Dr. Aaron Bauer
- 2003-2007: B.S., Biology
Department of Biology, John Carroll University
Advisor: Dr. Christopher Sheil

PROFESSIONAL POSITIONS

- 2020-Present: Senior Bioinformatics Scientist, Pacific Biosciences (PacBio)
- 2019-2020: Postdoctoral Researcher, California Academy of Sciences
Advisor: Dr. Rayna Bell
- 2017-2019: Postdoctoral Researcher, University of Arizona
Advisor: Dr. John Wiens
- 2016-2017: Postdoctoral Researcher, University of Texas at Arlington
Advisor: Dr. Matthew Fujita

Pre-prints/In Review:

- Ghose, S.L., Yap, T.A., Byrne, A.Q., Rosenblum, E.B., Bauer, W., Chan-Alvarado, A., Chaukulkar, S., Greenbaum, E., Lutz, K., Moyer, A., Parra, E., **Portik, D.M.**, Rockney, H., Zink, A.G., Blackburn, D.C., and V.T. Vredenburg. Continent-wide recent emergence of a global pathogen in African amphibians. *In review, Diversity & Distributions*.
- Feng, X., Cheng, H., **Portik, D.**, and H. Li. **2021**. Metagenome assembly of high-fidelity long reads with hifiasm-meta. *arXiv*, in review at *Nature Methods*. arXiv:2110.08457
- Gerhig, J.L., **Portik, D.M.**, Driscoll, M.D., Jackson, E., Chakraborty, S., Gratalo, D., Ashby, M., and R. Valladares. **2021**. Finding the right fit: a comprehensive evaluation of short-read and long-read sequencing approaches to maximize the utility of clinical microbiome data. *bioRxiv*, in review at *Microbial Genetics*. <https://doi.org/10.1101/2021.08.31.458285>

2008 – Present:

39. Bickhart, D.M., Kolmogorov, M., Tseng, E., **Portik, D.M.**, Korobeynikov, A., Tolstoganov, I., Uritskiy, G., Liachko, I., Sullivan, S.T., Shin, S.B., Zorea, A., Andreu, V.P., Panke-Buisse, K., Medema, M.H., Mizrahi, I., Pevzner, P.A., and T.P.L. Smith. **2022**. Generation of lineage-resolved complete metagenome-assembled genomes by precision phasing. *Nature Biotechnology*, Online ahead of print.
38. Jaynes, K., Myers, E., Gvoždík, V., Blackburn, D., **Portik, D.M.**, Greenbaum, E., Jongsma, G., Roedel, M.-O., Badjedjea, G., Bamba-Kaya, A., Baptista, N., Akuboy, J., Ernst, R., Kouete, M., Kusamba, C., Masudi, F., McLaughlin, P., Nneji, I.M., Onadeko, A., Penner, J., Vaz Pinto, P., Stuart, B., Tobi, E., Zassi-Boulou, A.-G., Leaché, A., Fujita, M.K., and R.C. Bell. **2021**. Giant Tree Frog diversification in West and Central Africa: isolation by physical barriers, climate, and reproductive traits. *Molecular Ecology*, Online ahead of print.
37. Hutter, C.R., Cobb, K.A., **Portik, D.M.**, Travers, S., and R.M. Brown. **2021**. FrogCap: a modular sequence capture probe set for phylogenomics and population genetics for all frogs, assessed across multiple phylogenetic scales. *Molecular Ecology Resources*, Online ahead of print.
36. **Portik, D.M.**, and J.W. Wiens. **2021**. Do alignment and trimming methods matter for phylogenomic (UCE) analyses? *Systematic Biology*, 70: 440–462.
35. Brennan, I.G., Lemmon, A.R., Lemmon, E.M., **Portik, D.M.**, Weijola, V., Welton, L., Donnellan, S.C., and S. Keogh. **2021**. Phylogenomics of monitor lizards and the role of competition in dictating body size disparity. *Systematic Biology*, 70: 120–132.
34. Firneno Jr., T.J., Emery, A.H., Gerstner, B.E., **Portik, D.M.**, Townsend, J.H., and M.K. Fujita. **2020**. Mito-nuclear discordance reveals cryptic genetic diversity, introgression, and an intricate demographic history in a problematic species complex of Mesoamerican toads. *Molecular Ecology*, 29: 3543–3559.
33. **Portik, D.M.**, Blackburn, D.C., and J.A. McGuire. **2020**. Macroevolutionary patterns of sexual size dimorphism among African tree frogs (Family: Hyperoliidae). *Journal of Heredity*, 111: 379–391.
32. **Portik, D.M.**, and J.W. Wiens. **2020**. SuperCRUNCH: a toolkit for creating and manipulating supermatrices and other large phylogenetic datasets. *Methods in Ecology and Evolution*, 11: 763–772.

31. Leaché, A.D., **Portik, D.M.**, Rivera, D., Rödel, M.-O., Penner, J., Gvoždík, V., Bell, R.C., Greenbaum, E., Ofori-Boateng, C., Burger, M., Eniang, E.A., and M.K. Fujita. **2019**. Exploring rainforest diversification using demographic model testing in the African foam-nest treefrog (*Chiromantis rufescens*). *Journal of Biogeography* 46: 2706–2721.
30. Byrne, A.Q., Vredenburg, V.T., Martel, A., Pasmans, F., Bell, R.C., Blackburn, D.C., Briggs, C.J., Brown, R.M., Bletz, M.C., Bosch, J., Figueroa-Valenzuela, R., Ghose, S.L., Jaeger, J.R., Jani, A.J., Jirku, M., Knapp, R.A., **Portik, D.M.**, Richards-Zawacki, C.L., Rockney, H., Stark, T., Sulaeman, H., Tao, N.T., Voyles, J., Waddle, A.W., Yuan, Z., and E.B. Rosenblum. **2019**. Cryptic diversity of a widespread global pathogen reveals new threats for amphibian conservation. *Proceedings of the National Academy of Sciences, USA* 116: 20382–20387.
29. **Portik, D.M.**, Bell, R.C., Blackburn, D.C., Bauer, A.M., Barratt, C.D., Branch, W.R., Burger, M., Channing, A., Colston, T.J., Conradie, W., Dehling, J.M., Drewes, R.C., Ernst, R., Greenbaum, E., Gvoždík, V., Harvey, J., Hillers, A., Hirschfeld, M., Jongsma, G.F.M., Kielgast, J., Kouete, M.T., Lawson, L., Leaché, A.D., Loader, S.P., Lötters, S., van der Meijden, A., Menegon, M., Müller, S., Nagy, Z.T., Ofori-Boateng, C., Ohler, A., Papenfuss, T.J., Rößler, D., Sinsch, U., Rödel, M.-O., Veith, M., Vindum, J., Zassi-Boulou, A.-G., and J.A. McGuire. **2019**. Sexual dichromatism drives diversification within a major radiation of African amphibians. *Systematic Biology* 68: 859–875.
28. Barratt, C.D., Bwong, B.A., Jehle, R., Liedtke, H.C., Nagel, P., Onstein, R.E., **Portik, D.M.**, Streicher, J.W., and S.P. Loader. **2018**. Vanishing refuge: testing the forest refuge hypothesis in coastal East Africa using genomewide sequence data for seven amphibians. *Molecular Ecology* 27: 4289–4308.
27. Charles, K.C., Bell, R.C., Blackburn, D.C., Burger, M., Fujita, M.K., Gvoždík, V., Jongsma, G.F.M., Kouete, M.T., Leaché, A.D., and **D.M. Portik**. **2018**. Sky, sea, and forest islands: diversification in the African leaf-folding frog *Afraxalus paradorsalis* (Anura: Hyperoliidae) of the Lower Guineo-Congolian rainforest. *Journal of Biogeography* 45: 1781–1794.
26. **Portik, D.M.**, Jongsma, G.F., Kouete, M.T., Scheinberg, L.A., Freiermuth, B., Tapondjou, W.P., and D.C. Blackburn. **2018**. Ecological, morphological, and reproductive aspects of a diverse assemblage of hyperoliid frogs (Family: Hyperoliidae) surrounding Mt. Kupe, Cameroon. *Herpetological Review* 49: 397–408.
25. Jongsma, G.F.M., Barej, M.F., Barratt, C.D., Burger, M., Conradie, W., Greenbaum, E., Hirschfeld, M., Leaché, A.D., Penner, J., **Portik, D.M.**, Rödel, M.-O., and D.C. Blackburn. **2018**. Diversity and biogeography of frogs in the genus *Amnirana* (Anura: Ranidae) across sub-Saharan Africa. *Molecular Phylogenetics and Evolution* 120: 274–285.
24. Conradie, W., Verbugt, L., **Portik, D.M.**, and A. Ohler. **2018**. A new Reed Frog (Hyperoliidae: *Hyperolius*) from coastal northeastern Mozambique. *Zootaxa* 4379: 177–198.
23. **Portik, D.M.**, Leaché, A.D., Rivera, D., Blackburn, D.C., Rödel, M.-O., Barej, M.F., Hirschfeld, M., Burger, M., and M.K. Fujita. **2017**. Evaluating mechanisms of diversification in a Guineo-Congolian forest frog using demographic model selection. *Molecular Ecology* 26: 5245–5263.
22. Bell, R.C., Parra, J.L., Badjedjea G., Barej, M.F., Blackburn, D.C., Burger, M., Channing, A., Dehling, J.M., Greenbaum, E., Gvoždík, V., Kielgast, J., Kusamba, C., Lötters, S., McLaughlin, P.J., Nagy, Z.T., Rödel, M.-O., **Portik, D.M.**, Stuart, B.L., VanDerWal J., and K.R. Zamudio. **2017**. Idiosyncratic responses to climate-driven forest fragmentation and marine incursions in reed frogs from Central Africa and the Gulf of Guinea Islands. *Molecular*

Ecology 26: 5223–5224.

21. Bittencourt-Silva, G.B., Lawson, L.P., Tolley, K.A., **Portik, D.M.**, Barratt, C.D., Nagel, P., and S.P. Loader. **2017**. Impact of species delimitation and sampling on niche models and phylogeographical inference: a case study of the East African reed frog *Hyperolius substriatus* Ahl 1931. *Molecular Phylogenetics and Evolution* 114: 261–270.
20. Schield, D.R., Adams, R.H., Card, D.C., Perry, B.W., Pasquesi, G.M., Jezkova, T., **Portik, D.M.**, Andrew, A.L., Spencer, C.L., Sanchez, E.E., Fujita, M.K., Mackessy, S.P., and T.A. Castoe. **2017**. Genomic patterns of divergence and admixture in a widely-distributed rattlesnake provide insight into speciation with gene flow. *Ecology and Evolution* 7: 3951–3966.
19. **Portik, D.M.**, and D.C. Blackburn. **2016**. The evolution of reproductive diversity in Afrobatrachia: A phylogenetic comparative analysis of an extensive radiation of African frogs. *Evolution* 70: 2017–2032.
18. **Portik, D.M.**, Smith, L.L., and K. Bi. **2016**. An evaluation of transcriptome-based exon capture for frog phylogenomics across multiple scales of divergence (Class: Amphibia, Order: Anura). *Molecular Ecology Resources* 16: 1069–1083.
17. **Portik, D.M.**, Jongsma, G.F., Kouete, M.T., Scheinberg, L.A., Freiermuth, B., Tapondjou, W.P., and D.C. Blackburn. **2016**. A survey of amphibians and reptiles in the foothills of Mount Kupe, Cameroon. *Amphibian and Reptile Conservation* 10(2) [Special Section]: 37–67 (e131).
16. Dowell, S.A., **Portik, D.M.**, de Buffrénil, V., Ineich, I., Greenbaum, E., Kolokotronis, S.-O., and E.R. Hekkala. **2016**. Molecular data from contemporary and historical collections reveal a complex story of cryptic diversification in the *Varanus (Polydaedalus) niloticus* species group. *Molecular Phylogenetics and Evolution* 94, Part B: 591–604.
15. Medina, M.F., Greenbaum, E., Bauer, A.M., Branch, W.R., Schmitz, A., Conradie, W., Nagy, Z.T., Hibbitts, T.J., Ernst, R., **Portik, D.M.**, Nielsen, S.V., Kusamba, C., Colston, T.J., and M. Behangana. **2016**. Phylogeny and systematics of *Panaspis* and *Afroablepharus* skinks (Squamata: Scincidae) in the savannas of sub-Saharan Africa. *Molecular Phylogenetics and Evolution* 100: 409–423.
14. Evans, B.J., Carter, T.F., Gvoždík, V., Kelley, D.B., McLaughlin, P.J., Pauwels, O.S.G., **Portik, D.M.**, Stanley, E.L., Tinsley, R.C., Tobias, M.L., and D.C. Blackburn. **2015**. Genetics, morphology, advertisement calls, and historical records distinguish six new polyploid species of African clawed frog (*Xenopus*, Pipidae) from West and Central Africa. *PLoS One* 10: e0142823.
13. **Portik, D.M.**, Scheinberg, L., Blackburn, D.C., and R.A. Saporito. **2015**. Lack of defensive alkaloids in the integumentary tissue of four brilliantly colored African Reed Frog species (Hyperoliidae: *Hyperolius*). *Herpetological Conservation and Biology* 10: 833–838.
12. **Portik, D.M.**, and T.J. Papenfuss. **2015**. Historical biogeography resolves the origins of endemic Arabian toad lineages (family Bufonidae): Evidence for ancient vicariance and dispersal events with the Horn of Africa and South Asia. *BMC Evolutionary Biology* 15: 152.
11. Loader, S.P., Lawson, L.P., **Portik, D.M.**, and M. Menegon. **2015**. Three new species of spiny throated reed frogs (Anura: Hyperoliidae) from Evergreen forests of Tanzania. *BMC Research Notes* 8: 167.
10. Reilly, S.B., **Portik, D.M.**, Koo, M.S., and D.B. Wake. **2014**. Discovery of a new, disjunct population of a narrowly distributed salamander (*Taricha rivularis*) in California presents

conservation challenges. *Journal of Herpetology* 48: 317–379.

9. **Portik, D.M.**, Travers, S.L., Bauer, A.M., and W.B. Branch. **2013**. A new species of *Lygodactylus* (Squamata: Gekkonidae) endemic to Mt. Namuli, an isolated 'sky island' of northern Mozambique. *Zootaxa* 3710(5): 415–435.
8. **Portik, D.M.**, Mulungu, E., Sequeira, D., and J.P. McEntee. **2013**. Herpetological surveys of the Serra Jeci and Namuli massifs, Mozambique, and an annotated checklist of the Southern Afromontane Archipelago. *Herpetological Review* 44: 394–406.
7. Penner, J., Adum, G.B., McElroy, M.T., Doherty-Bone, T., Hirschfeld, M., Sandberger, L., Weldon, C., Cunningham, A.A., Ohst, T., Wombwell, E., **Portik, D.M.**, Reid, D., Hillers, A., Ofori-Boateng, C., Oduro, W., Plötner, J., Ohler, A., Leaché, A.D., and M.O. Rödel. **2013**. West Africa - A safe haven for frogs? A sub-continental assessment of the chytrid fungus (*Batrachochytrium dendrobatidis*). *PLoS One* 8(2): e56236.
6. **Portik, D.M.**, and A.M. Bauer. **2012**. Untangling the complex: molecular relationships among *Trachylepis variegata* and *T. punctulata*. *African Journal of Herpetology* 61: 128–42.
5. **Portik, D.M.**, and T.J. Papenfuss. **2012**. Monitors cross the Red Sea: The biogeographic history of *Varanus yemenensis*. *Molecular Phylogenetics and Evolution* 62: 561–565.
4. **Portik, D.M.**, Wood Jr., P.L., Grismer, J.L., Stanley, E.L., and T. R. Jackman. **2012**. Identification of 104 rapidly-evolving nuclear protein-coding markers for amplification across scaled reptiles using genomic resources. *Conservation Genetics Resources* 4: 1–10.
3. **Portik, D.M.**, Bauer, A.M., and T. R. Jackman. **2011**. Bridging the gap: Western rock skinks (*Trachylepis sulcata*) have a short history in South Africa. *Molecular Ecology* 20: 1744–1758.
2. **Portik, D.M.**, Bauer, A.M. and T.R. Jackman. **2010**. The phylogenetic affinities of *Trachylepis sulcata nigra* and the intraspecific evolution of coastal melanism in the Western rock skink. *African Zoology* 45(2): 1–13.
1. Sheil C.A., and **D.M. Portik**. **2008**. Formation and ossification of limb elements in *Trachemys scripta* and a discussion of autopodial elements in turtles. *Zoological Science* 25: 622–641.

Natural History Notes (3):

- Bamba-Kaya, A., Zassi-Boulou, A.-G., Tobi, E., Hayes, D., **Portik, D.M.**, Blackburn, D.C., and G.F.M. Jongsma. **2019**. Notes on a little known Central African Reed Frog, *Hyperolius schoutedeni* Laurent, 1943. *Herpetology Notes* 12: 873–876.
- Jongsma, G.F.M., Zassi-Boulou, A., **Portik, D.M.**, Bamba-Kaya, A., Caviède-Solis, I.W., Ofori-Boateng, C., Leaché, A.D., and E. Tobi. **2019**. *Kassina maculosa* (Marbled Running Frog) and *K. arboricola* (Ivory-Coast Running Frog). Defensive Behavior. *Herpetological Review* 50: 336–337.
- Weinell, J.L., **Portik, D.M.**, and A.M. Bauer. 2017. Noteworthy records of amphibians and reptiles from Mozambique. *African Herp News*, 65: 3–10.

GRANTS AND FELLOWSHIPS

2014-2015: Philomathia Graduate Fellowship in Environmental Sciences, UC Berkeley: \$40,000
2015: Evolutionary, Ecological, or Conservation Genomics Research Award – presented by the

American Genetic Association: \$7,968

2013: NSF Doctoral Dissertation Improvement Grant (DDIG) - Phylogenetic community ecology and diversification of hyperoliid frogs in Africa (DEB-1311006): \$12,942

2010-2012: Summer Research Fellowships, Integrative Biology, UC Berkeley: \$9000 total

2012: Summer Research Grant, Graduate Division, UC Berkeley: \$3500

2012: Jerry O. Wolff Research Fund, Museum of Vertebrate Zoology, UC Berkeley: \$2000

2012: Wake Research Fund, Museum of Vertebrate Zoology, UC Berkeley: \$1500

2011: Alexander Award for Expeditions, Museum of Vertebrate Zoology, UC Berkeley: \$5000

2009, 2011: Louise Kellogg Research Awards, Museum of Vertebrate Zoology, UC Berkeley: \$4000 total

2008-2009: Biology Summer Research Fellowships, Villanova University: \$2000 total

2008: Graduate Student Summer Research Fellowship, Villanova University: \$2,000

2004-2005: Huntington Foundation Summer Research Fellowships, John Carroll University: \$6,000 total

AWARDS AND HONORS

2015: Don Broadley Prize for Excellence in African Herpetology – presented by the *Herpetological Association of Africa* for best student publication in the *African Journal of Herpetology*: \$500

2009: Frederick H. Stoye Award – presented by the *American Society of Ichthyologists and Herpetologists* for best oral presentation in general herpetology: \$300

2007: Outstanding Biology Scholar Award, John Carroll University: \$250

TEACHING EXPERIENCE

University of California, Berkeley

2013, 2015: Herpetology Lab. Spring Semester. Duties included presenting lecture material, grading of discussion questions and lab reports, overseeing field trips; one section per week.

2012, 2014: Mammalian Physiology Lab. Spring Semester. Duties included presenting lecture material, grading of discussion questions and lab reports, overseeing student independent investigations; two sections per week.

2009, 2011, 2012: Motor Control Lab, Fall Semester. Duties included presenting lecture material, grading of discussion questions and lab reports, overseeing student independent investigations; one section per week.

2011: Human Reproduction. Spring Semester. Duties included presenting lecture material, leading review sessions, creating quizzes; three discussion sections per week.

Villanova University

2007-09: Human Anatomy & Physiology Lab. Duties included presenting pre-lab lecture, creating quizzes, grading quizzes and data sheets; three sections per week.

MUSEUM APPOINTMENTS

2010: Curatorial Assistant. Museum of Vertebrate Zoology. Fall and Spring Semester. Duties included specimen database accession and specimen maintenance.

2007: Summer Internship. Cleveland Museum of Natural History. Duties included specimen collection, preservation, cataloguing, maintenance, and independent research project.

FIELD RESEARCH EXPERIENCE

2016: **Ghana**. Trip conducted with Dr. Adam Leaché, Itzue Caviedes-Solis (University of Washington); Caleb Ofori Boateng (Ghana). April.

2014: **Cameroon**. Trip conducted with Dr. David Blackburn, Lauren Scheinberg, Brian Freiermuth (California Academy of Sciences); Marcel Talla Kouete (Cameroon). September-October.

2014: **Uganda**. Trip conducted with Dr. David Blackburn and Gregor Jongsma (California Academy of Sciences). April-May.

2013: **Cameroon**. Trip conducted with Dr. David Blackburn, Gregor Jongsma, Brian Freiermuth (California Academy of Sciences); Becca Tarvin (UT Austin); Marcel Talla Kouete (Cameroon). June-July.

2011: **Cameroon**. Trip conducted with Dr. Ben Evans (McMaster University) and Seraphin Blaise Menzephoh (Cameroon), in collaboration with Dr. David Blackburn (California Academy of Sciences). October-November.

2011: **Mozambique**. Trip conducted with Jay McEntee (UC Berkeley). July-August.

2011: **South Africa**: Limpopo Province. Trip conducted with Stuart Nielsen (University of Mississippi). June.

2011: **Ghana**. Trip conducted with Dr. Adam Leaché, Matt McElroy, Duncan Reid (University of Washington); Caleb Ofori Boateng (Ghana). May.

2008: **South Africa** and **Botswana**. Trip conducted with Dr. Aaron Bauer (Villanova University), Dr. William Branch (Port Elizabeth Museum, ZA), and Johan Marais (ZA). June-July.

PRESENTATIONS

Conference Presentations

Portik, D.M., and J.J. Wiens. SuperCRUNCH: a toolkit for creating and manipulating supermatrices and other large phylogenetic datasets. Oral Presentation. Joint Meeting of Ichthyologists and Herpetologists 2019. Snowbird, Utah, July 2019.

Portik, D.M., Leaché, A.D., Rivera, D., Blackburn, D.C., and M.K. Fujita. Evaluating mechanisms of diversification in a Guineo-Congolian tropical forest frog using demographic model selection. Oral Presentation. Joint Meeting of Ichthyologists and Herpetologists 2017. Austin, Texas, 15 July 2017.

Portik, D.M., Leaché, A.D., Rivera, D., Blackburn, D.C., and M.K. Fujita. Evaluating mechanisms of diversification in a Guineo-Congolian tropical forest frog using demographic model selection. Oral Presentation. Evolution 2017. Portland, Oregon, 25 June 2016.

Portik, D.M. A phylogenomic comparative analysis of sexual size dimorphism in African Reed Frogs. Oral Presentation. Joint Meeting of Ichthyologists and Herpetologists 2016. New Orleans, Louisiana, 9 July 2016.

Portik, D.M. The evolution of sexual dichromatism in African Reed Frogs. Oral Presentation. Evolution 2016. Austin, Texas, 18 June 2016.

Portik, D.M., Fujita, M.K., and A.D. Leaché. Mechanisms of diversification in West African rainforest reptiles and amphibians. Poster Session. Evolution 2016. Austin, Texas, 18 June 2016.

- Portik, D.M. Molecular systematics and trait evolution of the Afrobatrachia, an extensive radiation of African frogs. Oral Presentation. Society for the Study of Amphibians and Reptiles (SSAR). Lawrence, Kansas, 1 August 2015.
- Portik, D.M. Molecular systematics and trait evolution of the Afrobatrachia, an extensive radiation of African frogs. Oral Presentation. 95th Annual Meeting, American Society of Ichthyologists and Herpetologists. Reno, Nevada, 18 July 2015.
- *Charles, K., Bell, R.C., and D.M. Portik. Investigating the role of riverine barriers on phylogeographic structure of *Afraxalus paradorsalis*. Oral Presentation. 95th Annual Meeting, American Society of Ichthyologists and Herpetologists. Reno, Nevada, 18 July 2015. **Mentored undergraduate research.*
- Portik, D.M. Phylogenetic relationships of the family Hyperoliidae: preliminary results, challenges, and progress. 16th African Amphibian Working Group. Bwindi, Uganda, 20-30 May 2014.
- Portik, D.M. Counter-current faunal exchanges across the Arabian Peninsula: Patterns from varanids and toads. Oral Presentation. World Congress of Herpetology 7, Symposium on African Biogeography. Vancouver, British Colombia, 13 August 2012.
- Jackman, T.R., and D.M. Portik. Developing rapidly evolving nuclear protein coding markers for phylogeographic and phylogenetic studies in squamates. Oral Presentation. Evolution. Portland, Oregon, 25 June 2010.
- Portik, D.M. Phylogeography, population structure, demographic history, and evolution of a coastal melanistic phenotype in a skink species in southwestern Africa. Oral Presentation. Evolution. Portland, Oregon, 25 June 2010.
- Portik, D.M. Phylogeography of a Skink Species from Southwestern Africa. Oral Presentation. 89th Annual Meeting, American Society of Ichthyologists and Herpetologists. Portland, Oregon, 25 July 2009. *Received the Frederick H. Stoye Award for best oral presentation for General Herpetology.*
- Portik, D.M. The Effects of Lampricide Treatments on Populations of *Necturus maculosus* in Ohio River Drainages. Poster Session/Oral Presentation. Kirtlandia Society Annual Meeting. The Cleveland Museum of Natural History. Cleveland, Ohio, 11 August 2007.
- Sheil, C.A., and D.M. Portik. Formation & Ossification of Bony Elements in the Hands & Feet of Turtles. Poster Session. Joint Meeting of Ichthyologists and Herpetologists. Tampa, Florida, 7 July 2005.

Departmental Seminars

- Portik, D.M. A phylogenomic comparative analysis of sexual size-dimorphism and sexual dichromatism in Hyperoliid frogs. Museum of Vertebrate Zoology Lunch Seminar, Finishing Talk. UC Berkeley, 2 December 2016.
- Portik, D.M. Evolution of reproductive mode diversity in Afrobatrachians and a phylogenomic approach for Hyperoliid Reed Frog systematics. Integrative Biology Departmental Seminar, Finishing Talk. UC Berkeley, 9 November 2016.
- Portik, D.M. Molecular marker design and phylogeography in southern Africa. Departmental Seminar. McMaster University, 19 December 2011.
- Portik, D.M. Molecular marker design and phylogeography in southern Africa. Departmental Seminar. Ohio University, 23 September 2011.
- Portik, D.M. Phylogeography in Africa: examples from herpetofauna. Departmental Seminar. John Carroll University, 18 November 2010

INVITED WORKSHOPS

- 2015: Introduction to Python for NGS Analysis. Computational Genomics Research Laboratory lecture series. UC Berkeley. September 28 and November 10

PROFESSIONAL DEVELOPMENT

- 2015: Mentoring in Higher Education: Seminar to introduce graduate students to the role of mentoring in U.S. higher education, help guide graduate students as they mentor undergraduates at Berkeley, work in the context of a mentoring relationship with their graduate advisers, and prepare for the mentoring they will do in future academic and non-academic careers. Spring semester, UC Berkeley.
- 2009: Teaching Colloquium: Semester long course focusing on professional development as an instructor and potential tenure-track faculty member. Fall semester, UC Berkeley.
- 2009: UC Berkeley Teaching Conference. September, UC Berkeley.
- 2009: Professional Standards & Ethics Course: Online course to introduce policies, practices, and standards that all instructors need to know in order to perform their responsibilities professionally and ethically. Completed September, UC Berkeley.

PROFESSIONAL SERVICE

Editorial Service:

2015-2018: Associate Editor of *Herpetology Notes*

2010-2017: Editorial Assistant of *Hamadryad*

2008-2014: Copy Editor of *Herpetological Review*

Journal Reviewer:

African Journal of Herpetology, African Zoology, Amphibia-Reptilia, BMC Evolutionary Biology, Checklist, Evolution, Hamadryad, Herpetological Conservation and Biology, Herpetology Notes, Herpetological Review, Journal of East African Natural History, Molecular Ecology, Molecular Ecology Resources, Molecular Phylogenetics and Evolution, Zoological Journal of the Linnean Society, Zootaxa

Electronic Databases:

2010-present: Contributor to AmphibiaWeb (665 photos of 120 amphibian species)

Societies:

2015: Judge for Student Talks, Joint Meeting of Ichthyologists and Herpetologists.

2017: Mentoring Program, Joint Meeting of Ichthyologists and Herpetologists.

UC Berkeley:

2012-13: Graduate Admissions Committee, Integrative Biology Department, UC Berkeley:

Participated in committee with departmental faculty members to review graduate applicants for university fellowships (one of two graduate student representatives).

PAST SOCIETY AFFILIATIONS

Society for the Study of Evolution (SSE)

Society of Systematic Biologists (SSB)

Society for the Study of Amphibians and Reptiles (SSAR)

American Society of Ichthyologists and Herpetologists (ASIH)

Herpetological Association of Africa (HAA)

American Genetics Association (AGA)