Michael J. Andersen

Curriculum Vitae

Associate Professor, Department of Biology
Curator of Genomic Resources, Museum of Southwestern Biology, University of New Mexico
MSC03 2020, 1 University of New Mexico, Albuquerque, NM 87131-0001 USA
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EDUCATION

2013	**University of Kansas**, Ecology and Evolutionary Biology, PhD (with honors) Dissertation: *Diversification of the tropical Pacific avifauna.* Advisor: Dr. Robert G. Moyle
2004	**Cornell University**, Natural Resources, BS (*cum laude*) Undergraduate honors thesis: *Distribution of dragonflies in New York State: an analysis of ecoregions*.

PROFESSIONAL EXPERIENCE

2021–present	**Associate Professor of Biology**, University of New Mexico.
2017–present	**Curator of Genomic Resources**, Museum of Southwestern Biology, University of New Mexico.
2015–2021	Assistant Professor of Biology, University of New Mexico.
2015–present	Associate Curator of Birds, Museum of Southwestern Biology, University of New Mexico.
2014–2015	Frank M. Chapman Postdoctoral Fellow, American Museum of Natural History. Advisor: Dr. Brian T. Smith
2014–present	Research Associate, University of Kansas Biodiversity Institute.
2008–2013	Graduate Research, Curatorial, & Teaching Assistantships, University of Kansas.
2008–present	Lab Associate, Macaulay Library, Cornell Lab of Ornithology.
2005–2007	Assistant Curator of Audio, Macaulay Library, Cornell Lab of Ornithology.

FUNDING (TO DATE: $1,942,426)

Funded:

2021–2024	**NSF DEB-2112467 Evolutionary Processes**. COLLABORATIVE RESEARCH: Genomics of speciation and evolution of ecological traits in a geographic radiation of island kingfishers (Lead-PI $942,923; total award $1,363,987).
2021–2024	**NSF DBI-2034577** COLLABORATIVE RESEARCH: Sustaining Arctos as a community of practice and as a collection management solution for biodiversity research & education (Co-PI $574,694; total award $1,065,465).
2020–2021	**UNM Research Allocation Committee (#mfju44762k)**. Island kingfishers as an emerging model system to study the genomics of speciation ($10,000)
2016–2021	**NSF DEB-1557051 Systematics and Biodiversity Science**. COLLABORATIVE RESEARCH: Discovery and analysis in the cradle of speciation theory: biotic surveys of Melanesia's terrestrial vertebrates (Co-PI $348,769; total award $1,358,535)
2014	**AMNH Niarchos Foundation**. Retracing the Whitney South Seas Expedition in the 21st century: exploring the biogeographic link between the birds of Melanesia and Polynesia ($19,000)
2014–2015	**AMNH Chapman Postdoctoral Fellowship** ($31,406)
2009–2013	**Society and KU graduate student awards** (n=16, totaling $15,634)

PUBLICATIONS

Google Scholar Profile; *undergraduate co-author, **graduate co-author

Published (Scientific):

1. DeRaad, D. A., Manthey, J. D., Ostrow, E. N., DeCicco, L. H., **Andersen, M. J.**, Hosner, P. A., Shult, H. T., Joseph, L., Dumbacher, J. P., and R. G. Moyle. 2022. Population connectivity across a highly fragmented distribution: Phylogeography of the *Chalcophaps* doves. *Molecular Phylogenetics and Evolution* 166:107333. https://doi.org/10.1016/j.ympev.2021.107333
2. **Brady, S. S., Moyle, R. G., Joseph, L., and **M. J. Andersen**. Systematics and biogeography of the whistlers (Aves: Pachycephalidae) inferred from ultraconserved elements and ancestral area reconstruction. Accepted, 24 Nov 2021 at *Molecular Phylogenetics and Evolution* (MPE-D-21-00278R2).
3. **Andersen, M. J.**, McCullough, J. M., Gyllenhaal, E. F., Mapel, X. M., Haryoko, T., Jønsson, K. A., and L. Joseph. 2021. Complex histories of gene flow and a mitochondrial capture event in a nonsister pair of birds. *Molecular Ecology* 30: 2087–2103. https://doi.org/10.1111/mec.15856
4. **McCullough, J. M., **Gyllenhaal, E. F., **Mapel, X. M., **Andersen, M. J.**, and L. Joseph. 2021. Taxonomic implications of recent molecular analyses of Spectacled (*Symposiachrus trivirgatus*) and Spot-winged (*S. guttula*) Monarchs (Passeriformes: Monarchidae). *Emu - Austral Ornithology* 1–7. https://doi.org/10.1080/01584197.2021.1977143
5. Oliveros, C. H., **Andersen, M. J.**, and R. G. Moyle. 2021. A phylogeny of white-eyes based on ultraconserved elements. *Molecular Phylogenetics and Evolution* 164:107273. https://doi.org/10.1016/j.ympev.2021.107273
6. Eliason, C. M., McCullough, J. M., **Andersen, M. J.**, and S. J. Hackett. 2021. Accelerated brain shape evolution is associated with rapid diversification in an avian radiation. *The American Naturalist* 197:576–591. https://doi.org/10.5061/dryad.ffbg79cs6
7. **Mapel, X. M., **Gyllenhaal, E. F., Modak, T. H., DeCicco, L. H., Naikatini, A., Utzurrum, R. B., Seamon, J. O., Cibois, A., Thibault, J.-C., Sorenson, M. D., Moyle, R. G., Barrow, L. N., and **M. J. Andersen**. 2021. Inter- and intra-archipelago dynamics of population structure and gene flow in a Polynesian bird. *Molecular Phylogenetics and Evolution* 156:107034. https://doi.org/10.1016/j.ympev.2020.107034
8. Joseph, L., Campbell, C. D., Drew, A., Brady, S. S., Nyári, Á., and **M. J. Andersen**. 2021. How far east can a Western Whistler go? Genomic data reveal large eastward range extension, taxonomic and nomenclatural change, and reassessment of conservation needs. *Emu - Austral Ornithology* 121:90–101. https://doi.org/10.1080/01584197.2020.1854047
9. **Gyllenhaal, E. F., **Mapel, X. M., Naikatini, A., Moyle, R. G., and **M. J. Andersen**. 2020. A test of island biogeographic theory applied to estimates of gene flow in a Fijian bird is largely consistent with neutral expectations. *Molecular Ecology* 29:4059–4073. https://doi.org/10.1111/mec.15625
10. Manthey, J. D., Oliveros, C. H., **Andersen, M. J.,** Filardi, C. E., and R. G. Moyle. 2020. Gene flow and rapid phenotypic differentiation characterize a rapid insular radiation in the southwest Pacific (Aves: *Zosterops*). *Evolution* 74:1788–1803. https://doi.org/10.1111/evo.14043
11. Smith, B. T., Mauck, W. M. III, Benz, B. W., and **M. J. Andersen**. 2020. Uneven missing data skews phylogenomic relationships within the lories and lorikeets. *Genome Biology and Evolution* 12:1131–1147. http://dx.doi.org/10.1093/gbe/evaa113
12. Winkler, D. W., Hallinger, K. K., **Andersen, M. J.**, Ardia, D. R., Belmaker, A., van Oordt, D. C., Ferretti, V., Forsman, A. M., Gaul, J. R., Llambias, P. E., Orzechowski, S. C., Pegan, T. M., Shipley, J. R., Stager, M., Taff, C. C., Uehling, J. J., Verhoeven, M., Vitousek, M. N., Wilson, M., and H. S. Yoon. 2020. Full lifetime perspectives on the costs and benefits of lay date variation in tree swallows. *Ecology* 101:e03109. https://doi.org/10.1002/ecy.3109
13. Wood, P. L., Jr, Guo, X., Travers, S. L., Su, Y.-C., Olson, K. V., Bauer, A. M., Grismer, L. L., Siler, C. D., Moyle, R. G., **Andersen, M. J.**, and R. M. Brown. 2020. Parachute geckos free fall into synonymy: *Gekko* phylogeny, and a new subgeneric classification, inferred from thousands of ultraconserved elements. *Molecular Phylogenetics and Evolution* 146:106731. http://dx.doi.org/10.1016/j.ympev.2020.106731
14. Oliveros, C. H., **Andersen, M. J.**, Hosner, P. A., Mauck, W. M. III, Sheldon, F. H., Cracraft, J. L., and R. G. Moyle. 2020. Rapid Laurasian diversification of a pantropical bird family during the Oligocene-Miocene transition. *Ibis*. https://doi.org/10.1111/ibi.12707
15. **Andersen, M. J.**, **McCullough, J. M., Friedman, N. R., Peterson, A. T., Moyle, R. G., Joseph, L, and Á. S. Nyári. 2019. Ultraconserved elements resolve genus-level relationships in a major Australasian bird

radiation (Aves: Meliphagidae). *Emu – Austral Ornithology* 119:218–232. https://doi.org/10.1080/01584197.2019.1595662

16. **McCullough, J. M., Moyle, R. G., Smith, B. T., and **M. J. Andersen**. 2019. A Laurasian origin for a pantropical bird radiation is supported by genomic and fossil data (Aves: Coraciiformes). *Proceedings of the Royal Society* 286:20190122. https://doi-org.libproxy.unm.edu/10.1098/rspb.2019.0122
17. **McCullough, J. M., Moyle, R. G., Joseph, L, and **M. J. Andersen**. 2019. Ultraconserved elements put the final nail in the coffin of traditional use of the genus *Meliphaga* (Aves: Meliphagidae). *Zoologica Scripta* 48:411–418. https://doi.org/10.1111/zsc.12350
18. Eliason, C. M., **Andersen, M. J.**, and S. J. Hackett. 2019. Using historical biogeography models to study color pattern evolution. *Systematic Biology* 68:755–766. https://doi.org/10.1093/sysbio/syz012
19. Oliveros, C. H., Field, D. J., Ksepka, D. T., Barker, F. K., Aleixo, A., **Andersen, M. J.**, Alström, P., Benz, B., Braun, E. L., Braun, M. J., Bravo, G. A., Brumfield, R. T., Chesser, R. T., Claramunt, S., Cracraft, J., Cuervo, A. M., Derryberry, E. P., Glenn, T. C., Harvey, M. G., Hosner, P. A., Joseph, L. Kimball, R., Mack, A. L., Miskelly, C. M., Peterson, A. T., Robbins, M. B., Sheldon, F. H., Silveira, L. F., Smith, B. T., White, N. D., Moyle, R. G., and B. C. Faircloth. *Earth history and the passerine superradiation. 2019. Proceedings of the National Academy of Sciences USA* 116:7916–7925. https://doi.org/10.1073/pnas.1813206116
20. **Andersen, M. J.,** **McCullough, J. M., Mauck, W. M. III, Smith, B. T., and R. G. Moyle. 2018. A phylogeny of kingfishers reveals an Indomalayan origin and elevated rates of diversification on oceanic islands. *Journal of Biogeography* 45: 269–281. https://doi.org/10.1111/jbi.13139
21. Alström, P., Cibois, A., Irestedt, M., Zuccon, D., Gelang, M., Fjeldså, J., **Andersen, M. J.,** Moyle, R. G., Pasquet, E. and U. Olsson. 2018. Comprehensive molecular phylogeny of the grassbirds and allies (Locustellidae) reveals extensive non-monophyly of traditional genera, and a proposal for a new classification. *Molecular Phylogenetics and Evolution* 127: 367–375. https://doi.org/10.1016/j.ympev.2018.03.029
22. Hosner, P. A., **Campillo, L. C., **Andersen, M. J.**, Sánchez-González, L. A., Oliveros, C. H., Urriza, R. C., and R. G. Moyle. 2018. An integrative species delimitation approach reveals finescale endemism and substantial unrecognized avian diversity in the Philippine Archipelago. *Conservation Genetics* 19: 1153–1168. https://doi.org/10.1007/s10592-018-1085-4
23. **Andersen, M. J.**, Manthey, J. D., Naikatini, A., and R. G. Moyle. 2017. Conservation genomics of the silktail (Aves: *Lamprolia victoriae*) suggests the need for increased protection of native forest on the Natewa Peninsula, Fiji. *Conservation Genetics* 18: 1277–1285. https://doi.org/10.1007/s10592-017-0979-x
24. Oswald, J. A., **Overcast, I., Mauck, W. M. III, **Andersen, M. J.**, and B. T. Smith. 2017. Isolation with asymmetric gene flow during the nonsynchronous divergence of dry forest birds. *Molecular Ecology* 26: 1386–1400. https://doi.org/10.1111/mec.14013
25. Moyle, R. G., Oliveros, C. H., **Andersen, M. J.**, Hosner, P. A., Benz, B. W., Manthey, J. D., **Travers, S. L., Brown, R. M., and B. C. Faircloth. 2016. Tectonic collision and uplift of Wallacea triggered the global songbird radiation. *Nature Communications* 7: 12709. https://doi.org/10.1038/ncomms12709
26. **Ortiz-Ramírez, M. F., **Andersen, M. J.**, Zalidívar- Riverón, A., Ornelas, J. F., and A. G. Navarro-Sigüenza. 2016. Geographic isolation drives the evolution of song without correlation to genetic divergence in the Ruddy-capped Nightingale-Thrush (*Catharus frantzii*; Aves: Turdidae). *Molecular Phylogenetics and Evolution* 94: 74–86. https://doi.org/10.1016/j.ympev.2015.08.017
27. **Andersen, M. J.**, *Shult, H. T., Cibois, A., Thibault, J. C., Filardi, C. E., and R. G. Moyle. 2015. Rapid diversification and secondary sympatry in Australo-Pacific kingfishers (Aves: Alcedinidae: *Todiramphus*). *Royal Society Open Science* 2: 140375. https://doi.org/10.1098/rsos.140375
28. **Andersen, M. J.**, Hosner, P. A., Filardi, C. E., and R. G., Moyle. 2015. Phylogeny of the monarch flycatchers reveals extensive paraphyly and novel relationships within a major Australo-Pacific radiation. *Molecular Phylogenetics and Evolution* 83: 118–136. https://doi.org10.1016/j.ympev.2014.11.010
29. **Andersen, M. J.**, Naikatini, A., and R. G. Moyle. 2014. A molecular phylogeny of Pacific honeyeaters (Aves: Meliphagidae) reveals extensive paraphyly and an isolated Polynesian radiation. *Molecular Phylogenetics and Evolution* 71: 308–315. https://doi.org/10.1016/j.ympev.2013.11.014
30. **Andersen, M. J.**, Nyári, Á. S., Mason, I., Joseph, L., Dumbacher, J. P., Filardi, C. E., and R. G. Moyle. 2014. Molecular systematics of the world's most polytypic bird: the *Pachycephala pectoralis/melanura* (Aves: Pachycephalidae) species complex. *Zoological Journal of the Linnean Society* 170: 566–588. https://doi.org/10.1111/zoj.12088

31. Joseph, L., Nyári, Á. S., and **M. J. Andersen**. 2014. Taxonomic consequences of cryptic speciation in the Golden Whistler *Pachycephala pectoralis* complex in mainland southern Australia. *Zootaxa* 3900: 294–300. http://dx.doi.org/10.11646/zootaxa.3900.2.10
32. **Andersen, M. J.**, Oliveros, C. H., Filardi, C. E., and R. G. Moyle. 2013. Phylogeography of the variable dwarf-kingfisher *Ceyx lepidus* (Aves: Alcedinidae) inferred from mitochondrial and nuclear DNA sequences. *The Auk* 130: 118–131. https://doi.org/10.1525/auk.2012.12102
33. Moyle, R. G., Jones, R. M., and **M. J. Andersen**. 2013. A reconsideration of *Gallicolumba* (Aves: Columbidae) relationships using fresh source material reveals pseudogenes, chimeras, and a novel phylogenetic hypothesis. *Molecular Phylogenetics and Evolution* 66: 1060–1066. https://doi.org/10.1016/j.ympev.2012.11.024
34. Moyle, R. G., **Andersen, M. J.**, Oliveros, C. H., Steinheimer, F., and S. Reddy. 2012. Phylogeny and biogeography of the core babblers (Aves: Timaliidae). *Systematic Biology* 61: 631–651. https://doi.org/10.1093/sysbio/sys027
35. Peterson, A. T., **Andersen, M. J.**, Bodbyl-Roels, S., Hosner, P., Nyári, Á., Oliveros, C., and M. Papes. 2009. A prototype forecasting system for bird-borne disease spread in North America based on migratory bird movements. *Epidemics* 1: 240–249. https://doi.org/10.1016/j.epidem.2009.11.003

Published (Natural history and faunal surveys):

1. Lavery, T. H., DeCicco, L. H., Richmond, J. Q., Tigulu, I. G., **Andersen, M. J.**, Boseto, D., and R. G. Moyle. 2021. New faunal records from a World Heritage Site in danger: Rennell Island, Solomon Islands. *Pacific Science* 75:407–420. https://doi.org/10.2984/75.3.8
2. *Guo, T. V., Mosah, S., **McCullough, J. M., **DeRaad, D. A., **DeCicco, L. H., Tigulu, I. G., Famoo, R., Hobete, J., Runi, L., Rusa, G., Tippet, A., Ben, T., Olson, K. V., Klicka, L. B., Moyle, R. G., and M. J. Andersen. 2020. Detailed description of the nest, eggs, and juvenile plumage of the Solomons Nightjar (*Eurostopodus nigripennis*). *The Wilson Journal of Ornithology* 132:1028–1034. https://doi.org/10.1676/1559-4491-132.4.1028
3. Krabbe, N. K., Schulenberg, T. S., Hosner, P. A., Rosenberg, K. V., Davis, T. J., Rosenberg, G. H., Lane, D. F., **Andersen, M. J.**, Robbins, M. B., Cadena, C. D., Valqui, T., Salter, J. F., Spencer, A. J., Angulo, F., and J. Fjeldså. 2020. Untangling cryptic diversity in the High Andes: Revision of the *Scytalopus* [*magellanicus*] complex (Rhinocryptidae) in Peru reveals three new species. *Auk–Ornithological Advances* 137:1–26. http://dx.doi.org/10.1093/auk/ukaa003
4. DeCicco, L. H., **Brady, S. S., Hamilton, S., Havimana, A., **Mapel, X. M., **McCullough, J. M., Olson, K. V., Tigulu, I. G., Travers, S. L., Tugu, A., **Andersen, M. J.**, and R. G. Moyle. 2019. Notes on the birds of Isabel, Solomon Islands, including the first record since 1927 of Island Leaf Warbler *Phylloscopus maforensis*. *Bulletin of the British Ornithologists' Club* 139: 311–319. https://doi.org/10.25226/bboc.v139i4.2019.a2
5. **Andersen, M. J.,** **Fatdal, L., Mauck, W. M. III, and B. T. Smith. 2017. An ornithological resurvey of Vanuatu on the islands of Éfaté, Malakula, Gaua, and Vanua Lava. *Check List* 13: 755–782. https://doi.org/10.15560/13.6.755
6. Hosner, P. A., **Andersen, M. J.**, Robbins, M. B., Urbay-Tello, A. Cueto-Aparicio, L., Verde-Guerra, K., Sánchez-González, L. A., Navarro-Sigüenza, A.G., Boyd, R.L., Núñez, J., Tiravanti, J., Combe, M., Owens, H.L., and A. T. Peterson. 2015. Avifaunal surveys of the Upper Apurímac River Valley, Ayacucho and Cuzco Departments, Peru: New distributional records and biogeographic, taxonomic, and conservation implications. *Wilson Journal of Ornithology* 127(4): 563–581. https://doi.org/10.1676/14-178.1
7. **Liyandja, D. L., **Andersen, M. J.**, Oliveros, C. H., Kalemba L. N., Bakambana, T. L., Marks, B. D., Kahindo, C., and J. M. Malekani. 2015. Birds of the Man and Biosphere Reserve of Luki, Bas-Congo Province, Democratic Republic of Congo. *Check List* 11: 1755. http://dx.doi.org/10.15560/11.5.1755
8. Cable, T. T., Wiggins, D. and **M. J. Andersen**. 2012. The first successful nesting record for Common Ravens (*Corvus corax*) in Kansas. Kansas Ornithological Society Bulletin 63: 27–30.
9. Tobias, J. A., Lebbin, D. J., Aleixo, A., **Andersen, M. J.**, Guilherme E., Hosner, P. A., and N. Seddon. 2008. Distribution, behavior, and conservation status of the Rufous Twistwing (*Cnipodectes superrufus*). *The Wilson Journal of Ornithology* 120: 38–49. https://doi.org/10.1676/06-088.1
10. **Andersen, M. J.**, Lebbin, D. J., and P. H. Hosner. 2007. First photographic evidence of Veery (*Catharus fuscescens*) for Peru. *Boletín SAO* 17: 36–38.

11. Lebbin, D. J., Hosner, P. A., **Andersen, M. J.**, Valdez, U., and W. P. Tori. 2007. First description of the nest and eggs of the White-lined Antbird (*Percnostola lophotes*) and breeding observations of poorly known birds inhabiting *Guadua* bamboo in Southeastern Peru. *Boletín SAO* 17: 119–132.
12. Lebbin, D. J., Harvey, M. G., Lenz, T. C., **Andersen, M. J.**, and J. M. Ellis. 2007. Nocturnal migrants foraging at night by artificial light. *Wilson Journal of Ornithology* 119: 502–506. https://doi.org/10.1676/06-139.1

Published (Book reviews):

1. **Andersen, M. J.** 2010. Birds of Eastern/Western North America: A Photographic Guide [Book Review]. *Quarterly Review of Biology* 85: 377–378.

FIELD WORK

Since 2005, I have participated in 15 international specimen collecting expeditions, of which I led or co-led 13 (marked with *). I have personally prepared and cataloged 1,544 specimens that are deposited at CUMV, KU, AMNH, and MSB, as well as museums in Argentina, Peru, Fiji, and Vanuatu.

2019*	**SOLOMON ISLANDS**. Expedition to Tetepare and Kolombangara islands.
2018*	**SOLOMON ISLANDS**. Expedition to Rennell Island.
2017*	**SOLOMON ISLANDS**. Expedition to Ngella Pile Island.
2017*	**SOLOMON ISLANDS**. Expedition to Ranongga, Vella Lavella, and Kolombangara islands.
2014*	**VANUATU**. Expedition to Éfaté, Malakula, Gaua, and Vanua Lava islands.
2013*	**FIJI**. Dissertation collecting on Viti Levu, Ovalau, and Koro islands.
2012*	**DEMOCRATIC REPUBLIC OF CONGO**. Co-led a University of Kansas expedition in collaboration with the United States CDC and Field Museum of Natural History to Équateur and Bas-Congo Provinces.
2011*	**FIJI**. Dissertation collecting on 15 islands in the Southern Lau Group, plus Vanua Levu, Kioa, and Rabi islands.
2010*	**FIJI**. Dissertation collecting on Viti Levu and Kadvau islands.
2010*	**FIJI**. Dissertation collecting on Vanua Levu and Taveuni islands.
2009*	**FIJI**. Dissertation collecting on Viti Levu.
2009*	**SIERRA LEONE**. Led a University of Kansas expedition to Northern and Eastern Provinces.
2009*	**PERU**. Co-led a University of Kansas expedition to Ayacucho Department.
2008	**PERU**. Participated in a University of Kansas expedition to Ayacucho Department.
2005	**ARGENTINA**. Participated in a joint expedition with Cornell University, University of Kansas, and the Bernardino Rivadavia Natural Sciences Museum (Buenos Aires) to Jujuy Province.

In addition to the above international specimen collecting expeditions, I have conducted 10 trips dedicated to record bird songs that filled gaps in the archive of the Cornell Lab of Ornithology's Macaulay Library. In total, I have deposited 2,148 audio recordings of 837 species of birds in the Macaulay Library.

2007	**CUBA**. Expedition to Santiago de Cuba and Granma Provinces.
2007	**USA**. Expedition to Alaska's Boreal Interior, Brook's Range, North Slope, Seward Peninsula, Kenai Peninsula, and Southeast Islands.
2007	**USA**. Expedition to Florida.
2006	**ARGENTINA**. Expedition to Buenos Aires, Entre Ríos, Corrientes, and Misiones Provinces.
2006	**USA**. Expedition to Alaska's Boreal Interior, Brook's Range, and North Slope.
2006	**MEXICO**. Expedition to Sierra de los Tuxtlas, Veracruz, Mexico.
2005	**USA**. Expedition to California and Oregon.
2003	**MEXICO**. Expedition to Southern Mexico.
2003	**MEXICO**. Expedition to the Yucatán Peninsula.

2002 **MEXICO**. Expedition to the Sierra Madre Occidental.

2001 **MEXICO**. Expedition to the Sierra Madre Oriental.

POPULAR WRITING, NON-PEER-REVIEWED WRITING, AND OUTREACH

2019 McCullough, J. M., DeCicco, L. H., Herr, M., Pikacha, D., Holland, P., Olson, K., Boseto, D., Moyle, R. G., and **M. J. Andersen**. Survey of the Diversity of Terrestrial Vertebrate Animals of Tetepare, Solomon Islands. Submitted to the Ministry of Environment, Climate Change, and Disaster Management, Solomon Islands.

2019 McCullough, J. M., DeCicco, L. H., Herr, M., Pikacha, D., Holland, P., Olson, K., Boseto, D., Moyle, R. G., and **M. J. Andersen**. Survey of the Diversity of Terrestrial Vertebrate Animals of Kolombangara, Solomon Islands. Submitted to the Ministry of Environment, Climate Change, and Disaster Management, Solomon Islands.

2018 Tigulu, I. Holland, P., Lavery, T. Andersen, M. J., and R. G. Moyle. Biodiversity Research Report: Survey of the Diversity of Terrestrial Vertebrate Animals of the Solomon Islands: Nggella, Central Province. Submitted to the Ministry of Environment, Climate Change, and Disaster Management, Solomon Islands.

2017 Moyle, R. G., Weinell, J. Holmes, J., Hruska, J., Tigulu, I., Kera, P., Lavery, T., **Andersen, M. J.**, Mapel, X., Qaqara, C., Burger, M., and D. Boseto. Preliminary Report I: Survey of the Diversity of Terrestrial Vertebrate Animals of the Solomon Islands. Submitted to the Ministry of Environment, Climate Change, and Disaster Management, Solomon Islands.

2010 **Book Review**. Birds of Eastern/Western North America: A Photographic Guide. Quarterly Review of Biology 85: 377–378.

2008 **NPR Morning Edition Interview.** Storm petrels fill the air.

HONORS AND AWARDS

2014 **Elective Member**, American Ornithological Society (formerly American Ornithologists' Union).

2013 **Student Paper Award**, American Ornithologists' Union, Chicago, IL. Title: "Phylogenomics and hybridization in an oceanic archipelago: high-throughput sequencing resolves patterns of diversification in the Fiji Whistler *Pachycephala vitiensis*."

TEACHING AND MENTORSHIP

TEACHING

I teach a variety of organismal biology courses at UNM, including all undergraduate levels (100–400) and the graduate-level. My teaching philosophy is strongly centered around active learning using museum specimens from the Museum of Southwestern Biology collections. I integrate specimen-based education with direct observations in nature via field trips. These activities reflect my deep commitment to applied teaching and instilling an understanding and appreciation of natural history in all students (science and non-science majors) at all levels."

University of New Mexico

2022 UNM Biol 386L General Vertebrate Zoology (29 registered undergrads)

2021 UNM Biol 1150 Biodiversity (55 undergrads)

2020 UNM Biol 303 Ecology and Evolution (176 undergrads)

2020 UNM Biol 406L Global Avian Diversity and Systematics (16 undergrads, 3 grads)

2019 UNM Biol 191 Biodiversity (36 undergrads)

2018 UNM Biol 303 Ecology and Evolution (146 undergrads)

2018 UNM Biol 191 Biodiversity (24 undergrads)

2017 UNM Biol 406L Global Avian Diversity and Systematics (15 undergrads, 6 grads)

2017 UNM Biol 500 Graduate Student Orientation (24 students)

2016 UNM Biol 386L General Vertebrate Zoology (52 undergrads)
2016 UNM Biol 402L Fundamentals of Systematics (2 undergrads, 6 grads)
2015 UNM Biol 203 Ecology and Evolution (199 undergrads)

University of Kansas (Graduate TA)
2013 Biol 593 Ornithology (Lab TA and lectured for 1/3 of course)
2012 Biol 150 Principles of Molecular and Cellular Biology
2011 Biol 152 Principles of Organismal Biology
2011 Biol 593 Ornithology
2008 Biol 152 Principles of Organismal Biology

Cornell University (Undergraduate TA)
2002 NTRES 210 Field Biology
2003 NTRES 371 Conservation of Birds

MENTORSHIP

I currently mentor three PhD students with a fourth to start in Fall 2020. I have graduated three MSc students. I hold weekly lab research meetings to discuss updates to students' projects, present practice talks, and discuss the literature. I also meet with each of my students one-on-one for an hour per week for more in-depth mentorship on their respective projects.

Graduate Committees (* major advisor)
2021–present Antonia Androski (PhD)
2020–present Nick Vinciguerra (PhD)*
2019–present David Tan (PhD)*
2018–present Jenna M. McCullough (PhD)*
2018–present Ethan Gyllenhaal (PhD)*
2019–present Chris Anderson (PhD), major advisor Steve Poe
2016–present Jessie Williamson (PhD), major advisor Chris Witt
2020 defended Xena M. Mapel (MSc; 2018–2020)*
2019 defended Serina Brady (Dual MSc in Biology* and Museum Studies; 2016–2019)
2019 defended Chauncey Gadek (MSc)
2018 defended Jenna M. McCullough (MSc; 2016–2018)*
2018 defended Levi Gray (PhD)
2016 defended Elizabeth "Libby" Beckman (PhD)
2016 defended Andrea Chavez (MSc)
2016 defended Donavan Jackson (MSc)
2016 defended Dianna Krejsa (MSc)

INVITED PRESENTATIONS

2021 The role of islands in the diversification of Indo-Pacific birds. University of New Mexico Museum Research Traineeship Seminar, Albuquerque, NM.
2021 Island Life: Avian diversification across the Indo-Pacific. New Mexico State University, Department of Biology Seminar, Las Crusces, NM.
2020 Island Life: Avian diversification across the Indo-Pacific. University of New Mexico Department of Biology Promotion and Tenure Seminar, Albuquerque, NM.
2018 Evolution at the periphery: The role of islands in generating avian diversity in Australia and the Indo-West Pacific. International Ornithological Congress Symosium Keynote Speaker,

	"Integrative Approaches to Avian Evolution in Australia and the Indo-West Pacific," Vancouver, Canada.
2018	Evolution at the periphery: The role of islands in generating avian diversity in Australia and the Indo-West Pacific. Ecological Society of Japan Symposium Visiting Speaker, "Biodiversity: linking biogeographic pattern and process," Sapporo, Japan.
2017	Island biogeography and the diversification of birds. University of New Mexico Department of Biology Mid-probationary Seminar, Albuquerque, NM.
2013	Phylogenomics of an insular avian radiation. University of Kansas Department of Ecology and Evolutionary Biology, Lawrence, KS.
2013	Patterns of diversification in two widespread lineages of Pacific island birds. Louisiana State University Museum of Natural Science, Baton Rouge, LA.
2013	Phylogeography in the tropical Pacific: diversification patterns across multiple avian radiations. Kansas State University Division of Biology, Manhattan, KS.
2006	Recording the Haul Road: Macaulay Library expedition to Northern Alaska. Cornell Lab of Ornithology Board Meeting, Dallas, TX.

PUBLIC LECTURES

2021	Towards a stable taxonomy of birds. South Shore Audubon Society, Oceanside, NY.
2020	Towards a stable taxonomy of birds. Central New Mexico Audubon Society, Albuquerque, NM.
2017	The avian tree of life in the phylogenomics era. University of New Mexico Department of Biology Research Day Faculty Lecture, Albuquerque, NM.
2007	The sights and sounds of Alaska. Cornell Lab of Ornithology Monday Night Seminar, Ithaca, NY.
2006	Recording the Haul Road: An aural cross-section of the birds of Northern Alaska. Cayuga Bird Club Monday Night Seminar, Ithaca, NY.

SYMPOSIA & WORKSHOP ORGANIZATION

2018	**Integrative Approaches to Avian Evolution in Australia and the Indo-West Pacific**. Co-organizer with Dr. Leo Joseph, ANWC/CSIRO. International Ornithological Congress, Vancouver, Canada.
2007	**Macaulay Library Natural Sound Recording Workshop**. Santiago de Cuba, Cuba.
2006	**Macaulay Library Natural Sound and Video Recording**. IV North American Ornithological Conference, Veracruz, Mexico.
2005	**Macaulay Library Natural Sound Recording Workshop**. San Francisco State Sierra Nevada Field Campus, Calpine, California.

CONFERENCE ABSTRACTS

1. The importance of gene flow in archipelagos: Case study in a Pacific island flycatcher. **Gyllenhaal, E. F., Klicka, L. B., DeCicco, L. H., Moyle, R. G., and **M. J. Andersen**. American Ornithological Society Annual Meeting (Virtual), August 2021. Contributed Oral Paper.
2. The importance of gene flow in archipelagos: Case study in a Pacific island flycatcher. **Gyllenhaal, E. F., Klicka, L. B., DeCicco, L. H., Moyle, R. G., and **M. J. Andersen**. Society for the Study of Evolution Annual Meeting (Virtual), June 2021. Contributed Oral Paper.
3. Crossing the ocean: Gene flow between sedentary island bird populations. **Gyllenhaal, E. F., **Mapel, X. M., **McCullough, J. M., Moyle, R. G., and **M. J. Andersen**. North American Ornithological Conference (Virtual), August 2020.

4. Asymmetric gene flow in an understory Fijian bird. **Gyllenhaal, E. F., **Mapel, X. M., and **M. J. Andersen**. University of New Mexico Department of Biology Research Day, March 2019. Contributed Oral Paper.
5. Ultraconserved elements resolve genus-level relationships in the honeyeaters (Meliphagidae). **Andersen, M. J.**, Friedman, N. R., Joseph, L., Peterson, A. T., Moyle, R. G., and Nyári, Á. S. American Ornithological Society Annual Meeting, April 2018. Contributed Oral Paper.
6. Uneven missing data skews phylogenomic relationships within the lories and lorikeets. Smith, B. T., Mauck, W. M. III, Benz, B. W., and **M. J. Andersen**. American Ornithological Society Annual Meeting, April 2018. Contributed Oral Paper.
7. Origin and evolution of the extinct San Benedicto Island Rock Wren (*Salpinctes obsoletus exsul*) revealed by phylogeographic analysis of genome-wide variation. Spellman, G. M., Nahar, N., McCullough, J. M., Benedict, L., and **M. J. Andersen**. American Ornithological Society Annual Meeting, April 2018. Contributed Oral Paper.
8. Hemoglobin evolution across elevational transitions in the phylogeny of the dislossine tanagers. Witt, C. W., Beckman, E. J., Chavez, A. C., McCullough, J. M., **Andersen, M. J.**, and Storz, J. F. American Ornithological Society Annual Meeting, April 2018. Contributed Oral Paper.
9. Biogeography and trait evolution of the pantropical avian order Coraciiformes. McCullough, J. M., Moyle, R. G., Smith, B. T., and **M. J. Andersen**. American Ornithological Society Annual Meeting, April 2018. Contributed Oral Paper.
10. Isolation and gene flow affect the diversification of a South Pacific bird: The *Foulehaio* honeyeater complex. Mapel, X. M., Cibois, A., Modak, T. H., Sorenson, M. D., Moyle, R. G., and **M. J. Andersen**. American Ornithological Society Annual Meeting, April 2018. Contributed Oral Paper.
11. Problematic Pachycephalidae: A new phylogenetic hypothesis using ultraconserved elements. Brady, S., Joseph, L., R. G. Moyle, and **M. J. Andersen**. American Ornithological Society Annual Meeting, April 2018. Contributed Oral Paper.
12. Systematics of the avian order Coraciiformes. McCullough, J. M., Moyle, R. G., Smith, B. T., and **M. J. Andersen**. New Mexico Ornithological Society Annual Meeting, March 2018. Contributed Oral Paper.
13. Isolation and gene flow affect the diversification of a South Pacific bird: The *Foulehaio* honeyeater complex. Mapel, X. M., Cibois, A., Modak, T. H., Sorenson, M. D., Moyle, R. G., and **M. J. Andersen**. New Mexico Ornithological Society Annual Meeting, March 2018. Contributed Oral Paper.
14. Problematic Pachycephalidae: A new phylogenetic hypothesis using ultraconserved elements. Brady, S., Joseph, L., R. G. Moyle, and **M. J. Andersen**. New Mexico Ornithological Society Annual Meeting, March 2018. Contributed Oral Paper.
15. Bird taxonomy in the Solomon Islands. Moyle, R. G., and **M. J. Andersen**. Solomon Islands National Resource Management Symposium, Species Forum. Honiara, Solomon Islands, October 2017. Contributed Oral Paper.
16. Can we use biogeography models to understand color pattern evolution in birds? Eliason, C. M., **Andersen, M. J.**, and S. J. Hackett. Poster Presentation. Annual Meeting of the Society for the Study of Evolution, Portland, OR, June 2017. Poster Presentation.
17. Systematics of the pantropical avian order Coraciiformes. *McCullough, J. M., Mauck, W. M. III, Smith, B. T., Moyle, R. G., and **M. J. Andersen**. Joint meeting of American Ornithological Society and the Society of Canadian Ornithologists, Michigan State University, East Lansing, MI, August 2017. Contributed Oral Paper.
18. Tectonic collision and uplift of Wallacea triggered the global songbird radiation. **Andersen, M. J.**, Oliveros, C. H., Benz, B. W., and R. G. Moyle. 8th Biennial Conference of The International Biogeography Society, Tucson, AZ, January 2017. Contributed Oral Paper.
19. Phylogeny and biogeography of kingfishers. **Andersen, M. J.**, McCullough, J. M., Mauck III, W. M., Smith, B. T., and R. G. Moyle. North American Ornithological Conference, Washington, DC, August 2016. Contributed Oral Paper.
20. Asymmetric gene flow during the protracted diversification of dry-forest-bird assemblages in northwest Peru. Oswald, J. A., Overcast, I., Mauck, W. M., **Andersen, M. J.**, Smith, B. T. North American Ornithological Conference, Washington, DC, August 2016. Contributed Lightning Talk.

21. Genomic insights in speciation in a widespread Pacific island bird lineage. Moyle, R. G., Manthey, J. D., **Andersen, M. J.**, Oliveros, C. H., and C. E. Filardi. North American Ornithological Conference, Washington, DC, August 2016. Contributed Oral Paper.
22. Tectonic collision and uplift of Wallacea triggered the global songbird radiation. Oliveros, C. H., Moyle, R. G., **Andersen, M. J.**, Hosner, P. A., Benz, B. W., Manthey, J. D., Travers, S. L., Brown, R. M., and B. C. Faircloth. North American Ornithological Conference, Washington, DC, August 2016. Contributed Oral Paper.
23. Phylogenomics of lories and lorikeets (Order: Psittaciformes). Mauck, W. M, **Andersen, M. J.**, Benz, B. W., and B. T. Smith. North American Ornithological Conference, Washington, DC, August 2016. Contributed Lightning Talk.
24. Montane bird speciation and conservation across oceanic sky islands. Filardi, C. E., **Andersen, M. J.**, and R. G. Moyle. 2nd International Conference on Island Evolution, Ecology, and Conservation, Azores, Portugal, July 2016. Contributed Oral Paper.
25. Genomic insights into speciation in widespread Pacific island bird lineages. Moyle, R. G., Manthey, J. D., **Andersen, M. J.**, Oliveros, C. H., and C. E. Filardi. 2nd International Conference on Island Evolution, Ecology, and Conservation, Azores, Portugal, July 2016. Contributed Oral Paper.
26. Asymmetric gene flow during the protracted diversification of two Neotropical-aridland bird communities. Oswald, J. A., Overcast, I., Mauck, W. M., **Andersen, M. J.**, Smith, B. T. Annual Meeting of the Society for the Study of Evolution, Austin, TX, June 2016, Contributed Oral Paper.
27. Tectonic collision and uplift of Wallacea triggered the global songbird radiation. Oliveros, C. H., Moyle, R. G., **Andersen, M. J.**, Hosner, P. A., Benz, B. W., Manthey, J. D., Travers, S. L., Brown, R. M., and B. C. Faircloth. Annual Meeting of the Society for the Study of Evolution, Austin, TX, June 2016, Contributed Oral Paper.
28. Genomic phylogeography of a "Great Speciator" (*Zosterops* sp.): isolation and gene flow variation among Solomon Islands populations. Manthey, J. D., **Andersen, M. J.**, Oliveros, C. H., Filardi, C. E., and R. G. Moyle. Annual Meeting of the Society for the Study of Evolution, Austin, TX, June 2016, Poster Presentation.
29. UCE-primed sequence capture and the resolution of shallow divergences in cryptic species complexes: empirical applications in gecko and monitor lizard radiations in a Southeast Asian island archipelago. Brown, R. M., Travers, S., Olson, K., Oliveros, C. H., Su, Y.-C., **Andersen M. J.**, Guo, X., Siler, C. D., and R. G. Moyle. Bi-annual meeting of the 7th Biennial Conference of The International Biogeography Society, Bayreuth, Germany, January 2015. Contributed Oral Paper.
30. Higher-level phylogeny of crows and allies inferred from ultraconserved elements. **Andersen, M. J.**, Oliveros, C. H., Benz, B. W., and R. G. Moyle. Annual Meeting of the American Ornithologists' Union, Estes Park, CO, September 2014. Contributed Oral Paper.
31. Disentangling phylogenetic relationships in an explosive bird radiation. Oliveros, C. H., **Andersen, M. J.**, and R. G. Moyle. Annual Meeting of the American Ornithologists' Union, Estes Park, CO, September 2014. Contributed Oral Paper.
32. Disentangling phylogenetic relationships in an explosive bird radiation. Oliveros, C. H., **Andersen, M. J.**, and R. G. Moyle. 26th International Ornithological Congress, Tokyo, Japan, August 2014. Poster Presentation.
33. UCE-probed sequence-capture resolves shallow divergences within a complex of cryptic gecko species in an island archipelago. Brown, R. M., Travers, S., Olson, K., Oliveros, C., Su, Y.-C., **Andersen M. J.**, Guo, X., Siler, C. D., and R. G. Moyle. Annual Joint Meeting of Ichthyologists and Herpetologists, Chattanooga, TN, July 2014. Contributed Oral Paper.
34. Rapid diversification and secondary sympatry in an island bird lineage (Aves: *Todiramphus*). **Andersen, M. J.**, and R. G. Moyle. Annual Meeting of the Society for the Study of Evolution, Raleigh, NC, June 2014, Contributed Oral Paper.
35. Disentangling phylogenetic relationships in an explosive bird radiation. Oliveros, C. H., **Andersen, M. J.**, and R. G. Moyle. Annual Meeting of the Society for the Study of Evolution, Raleigh, NC, June 2014, Contributed Oral Paper, presented by C. H. Oliveros.

36. Phylogenomics and hybridization in an oceanic archipelago: high-throughput sequencing resolves patterns of diversification in the Fiji Whistler *Pachycephala vitiensis*. **Andersen, M. J.**, Kelly, J. K., and R. G. Moyle. Annual Meeting of the American Ornithologists' Union, Chicago, IL, August 2013. Contributed Oral Paper.

    Received Student Paper Award by the American Ornithologists' Union.

37. Phylogenomics of an insular radiation of birds: using next- generation sequencing to uncover the evolutionary history of a contact zone in Fijian *Pachycephala*. **Andersen, M. J.**, Kelly, J. K., and R. G. Moyle. Annual Meeting of the Society for the Study of Evolution, Snowbird, UT, June 2013. Contributed Oral Paper.
38. Phylogeography in the southwest Pacific: systematics, biogeography, and species limits in the Golden Whistler (*Pachycephala pectoralis*) complex. **Andersen, M. J.**, Nyári, Á. S., Filardi C. E., and R. G. Moyle. Fifth North American Ornithological Conference, Vancouver, B.C., Canada, August 2012. Contributed Oral Paper.
39. Phylogeography in the tropical Pacific: systematics, biogeography, and species limits in the Collared Kingfisher (*Todiramphus chloris*) complex. *Shult, H. T., **Andersen, M. J.**, Cibois, A., Filardi, C. E., Thibault, J.-C., and R. G. Moyle. Fifth North American Ornithological Conference, Vancouver, B.C., Canada, August 2012. Poster Presentation by undergraduate Hannah T. Shult.
40. Denser sampling of pacific monarchs reveals unexpected relationships but clearer biogeographic patterns. Moyle, R. G., **Andersen, M. J.**, and C. E. Filardi. Fifth North American Ornithological Conference, Vancouver, B.C., Canada, August 2012. Contributed Oral Paper.
41. A multi-locus dataset reveals novel insights into the systematics, biogeography, and species limits in the world's most diverse bird species: the *Pachycephala pectoralis/melanura* complex. **Andersen, M. J.**, Nyári, Á. S., Filardi, C. E., and R. G. Moyle. Smithsonian Institution's Evolution of Life on Pacific Islands and Reefs Conference, Honolulu, HI, May 2011. Contributed Oral Paper.
42. A molecular phylogeny of the variable kingfisher (*Ceyx lepidus*). **Andersen, M. J.**, Oliveros, C., Nyári, Á. S., Filari, C. E. and R. G. Moyle. Annual Meeting of the American Ornithologists' Union, San Diego, CA, February 2010. Contributed Oral Paper.
43. Higher level phylogeny of the core babblers (Timaliidae). Moyle, R. G., **Andersen, M. J.**, Oliveros, C., Reddy, S. Annual Meeting of the American Ornithologists' Union, San Diego, CA, February 2010. Contributed Oral Paper.
44. A molecular phylogeny of the variable kingfisher (Aves: *Ceyx lepidus*) reveals a novel endemic Philippines lineage. **Andersen, M. J.** and R. G. Moyle. University of Kansas Natural History Museum Graduate Student Organization Annual Retreat, Lawrence, KS, October 2009. Contributed Oral Paper.

SERVICE

University of New Mexico

2021	Collections Manager (Herbarium) Search Committee, Museum of Southwestern Biology
2020–present	DEI Committee
2021–present	Workload Policy Committee
2021–present	Graduate Policy Committee
2019	Faculty Curator of Amphibians and Reptiles Search Committee
2018–2021	Undergraduate Program Committee
2018	Collection Manager (Ichthyology) Search Committee, Museum of Southwestern Biology
2017–present	Museum of Southwestern Biology Executive Committee
2017	Biology Scholarships Committee, ad hoc reviewer
2017	Graduate Student Orientation (Chair)
2015–2018	Graduate Admissions Committee

University of Kansas (Graduate TA)

2011–2012	Faculty Hire Search Committee (Systematic Herpetologist), student representative

Professional

2020–present	American Ornithological Society Collections Committee
2020–present	American Ornithological Society Public Responsibility Committee
2018	Society of Systematic Biologists Graduate Research Awards, reviewer
2017	American Ornithological Society Academic Program Committee, Tucson meeting
2016–2020	Section Editor for Check List: The Journal of Biodiversity Data
2016	NSF Panelist, DEB Evolutionary Processes, Doctoral Dissertation Improvement Grant
2016	Cooper Ornithological Society Grinnell Research Award Committee, ad hoc reviewer
2016	National Science Bowl, High School Biology Questions, ad hoc reviewer
2015–2016	American Ornithological Society Student Presentation Awards, ad hoc reviewer
2008–2011	Kansas Ornithological Society, Board Member
Peer review	Biology Letters, Biological Journal of the Linnean Society, BMC Evolutionary Biology, Bulletin of the British Ornithologists' Union, Bulletin of the Kansas Ornithological Society, Bulletin of the Oklahoma Ornithological Society, Ecology & Evolution, Emu–Austral Ornithology, Evolution, Ibis/British Ornithologists' Union, Illinois Natural History Survey Bulletin, Journal of Avian Biology, Journal of Biogeography, Journal of Ornithology, Methods in Ecology and Evolution, Mitochondrial DNA Part B – Resources, Molecular Ecology, Molecular Phylogenetics and Evolution, Ornitología Neotropical, Oryx, Pacific Conservation Biology, Proceedings of the Royal Society of London B, Revista Mexicana de Biodiversidad, Science Advances, Systematic Biology, The Auk: Ornithological Advances, The Condor: Ornithological Applications, Western Birds, Wilson Journal Ornithology, Zoologica Scripta, Zoological Journal Linnean Society
Society memberships	American Ornithological Society, International Biogeography Society, Society for the Study of Evolution, Society of Systematic Biologists, Wilson Ornithological Society (Life Member)

Birding community

2017–present	eBird reviewer for Solomon Islands
2018–present	New Mexico Rare Bird Records Committee
2013–2014	Kansas Rare Bird Records Committee
Birding club memberships	African Birding Club, American Birding Association, Cornell Lab of Ornithology, New Mexico Ornithological Society, Neotropical Birding Club, Oriental Birding Club