

(updated 04/04/24)

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Education

Ph.D., Biology. 2019. **University of Washington**, Seattle, WA

B.A., Biology. 2013. **Reed College**, Portland, OR

Publications

- 20) Jones, G.M., Goldberg, J.F., Wilcox, T.M., Buckley, L.B., Parr, C.L., **Linck, E.B.**, Fountain, E.D., Schwartz, M.K. 2023. Fire-adapted traits in animals. *Trends in Ecology & Evolution* 38(12) 1117-1118.
- 19) Jones, G.M., Goldberg, J.F., Wilcox, T.M., Buckley, L.B., Parr, C.L., **Linck, E.B.**, Fountain, E.D., Schwartz, M.K. 2023. Fire-driven animal evolution in the Pyrocene. *Trends in Ecology and Evolution* (38)11, 1072-1084.
- 18) Williamson, J.L.*, **Linck, E.B.**, Bautista, E., Smiley, A., McGuire, J.A., Dudley, R., Witt, C.C. 2023. Hummingbird blood traits track oxygen availability across space and time. *Ecology Letters* 26(7), 1223-1236.
- 17) **Linck, E.B.**, Williamson, J.L.*, Bautista, E., Beckman, E.J., Benham, P.M., DuBay, S.G., Flores, L.M., Gadek, C.R., Johnson, A.B., Jones, M.R., Núñez-Zapata, J., Quiñonez, A., Schmitt, C.J., Susanibar, D., Tiravanti, J., Verde-Guerra, K., Wright, N.A., Valqui, T., Storz, J.F., Witt, C.C. 2023. Blood variation implicates respiratory limits on elevational ranges of Andean birds. *The American Naturalist* 201(5), 741-754.
- 16) Pujolar, J.M., Blom, M.P.K., Reeve, A.H., Kennedy, J.D., Marki, P.M., Freeman, B.G., Sam, K., **Linck, E.B.**, Haryoko, T., Iova, B., Koane, B., Maia, G., Paul, L., Irestedt, M., Jønnsen, K.A. 2022. Barriers and gradients: the formation of montane diversity. *Nature Communications* 13, 268.
- 15) **Linck, E.B.**, Freeman, B.G., Cadena, C.D., Ghalambor, C.K. 2021. Evolutionary conservatism will limit responses to climate change in the tropics. *Biology Letters* 17(10), 20210363.
- 14) Semenov, G.A., **Linck, E.B.**, Enbody, E.D., Harris, R.B., Khaydarov, D.R., Alström, P., Andersson, L., Taylor, S.A. 2021. Asymmetric introgression reveals the genetic architecture of a plumage trait. *Nature Communications* 12, 1019.
- 13) Mamantov, M.A.*, Gibson-Reinemer, D.K., **Linck, E.B.**, Sheldon, K.S. 2021. Climate-driven range shifts of montane species vary with elevation. *Global Ecology and Biogeography* 30(4), 784-794.
- 12) **Linck, E.B.**, Freeman, B.G., Dumbacher, J.P. 2020. Speciation and gene flow across an elevational gradient in New Guinea kingfishers. *Journal of Evolutionary Biology* 33(11), 1643-1652.
- 11) **Linck, E.B.**, Fricke, E., Rogers, H. 2020. Varied abundance and functional diversity in the surviving bird communities of the Mariana Islands. *The Wilson Journal of Ornithology* 132(1), 22-28.
- 10) **Linck, E.B.**, Celi, J.E., Sheldon, K.S. 2020. Panmixia across elevation in thermally sensitive Andean dung beetles. *Ecology and Evolution* 10(9), 4143-4155.
- 9) **Linck, E.B.**. 2020. Bird Species: How They Arise, Modify and Vanish. *The Auk* 137, 1-2.

- 8) **Linck, E.B.**, Epperly, K., van Els, P., Spellman, G.M., Bryson Jr., R.W., Canales-del-Castillo, R., McCormack, J.E., Klicka, J. 2019. Dense geographic and genomic sampling reveals paraphyly and a cryptic lineage in a classic sibling species complex. *Systematic Biology* 68(6), 956-966.
- 7) **Linck, E.B.**, Battey, C.J. 2019. Minor allele frequency thresholds strongly affect population structure inference with genomic datasets. *Molecular Ecology Resources* 19(3), 639-647.
- 6) **Linck, E.B.**, Huber, H.C., Greeney, H.F., Sheldon, K.S. 2019. Nesting biology of the Blue-and-white Swallow (*Pygochelidon cyanoleuca*) in northeastern Ecuador. *Ornitología Neotropical* 30, 5-10.
- 5) Battey, C.J., **Linck, E.B.**, Epperly, K.L., French, C., Slager, D., Klicka, J. 2018. A Migratory Divide In The Painted Bunting (*Passerina ciris*). *The American Naturalist* 191(2), 259-268.
- 4) **Linck, E.B.**, Hanna, Zachary R., Sellas, A., Dumbacher, J.P. 2017. Evaluating hybridization capture with RAD probes as a tool for museum genomics with historical bird specimens. *Ecology and Evolution* 7(8).
- 3) **Linck, E.B.**, Bridge, E.S., Duckles, J., Navarro-Sigenza, A.G., Rohwer, S. 2016. Assessing migration patterns in Painted Buntings using the world's bird collections as an aggregated resource. *PeerJ* 4:e1871.
- 2) **Linck, E.B.**, Schaack, S., Dumbacher, J. 2015. Genetic differentiation within a widespread "supertramp" taxon: molecular phylogenetics of the Louisiade White-eye (*Zosterops griseotinctus*). *Molecular Phylogenetics and Evolution* 94(A), 113-121.
- 1) **Linck, E.B.** 2010. Notes on birds and logistics from the south side of Mount Giluwe, SHP. *Muruk* 10(1), 4-7.

Preprints / In Revision

Linck, E.B., Battey, C.J. 2019. On the relative ease of speciation with periodic gene flow. *bioRxiv*. DOI: 10.1101/758664

(* indicates graduate student mentee coauthor)

Teaching Experience

As Instructor of Record:

Biology 170: Principles of Biodiversity. Spring 2024. Department of Ecology, Montana State University.

Biology 470: Conservation Genetics. Fall 2023. Department of Ecology, Montana State University.

As Teaching Assistant:

Biology 472: Community Ecology. Fall 2015. Department of Biology, University of Washington.

Biology 452: Vertebrate Biology. Summer 2015. Department of Biology, University of Washington.

Biology 200: Introductory Biology II. Fall 2014. Department of Biology, University of Washington.

Biology 180: Introductory Biology I. Winter 2015, Spring 2015, Winter 2016. Department of Biology, University of Washington.

Biology 366: Population Ecology and Evolution. Spring 2013. Department of Biology, Reed College.

As Workshop Instructor:

BioFrontiers QED Supergroup: "Basic population genomic analysis in Python and R." 2019. University of Colorado, Boulder.

Guest Lectures:

Biology 470: Ornithology. Spring 2023. New Guinea as a laboratory for avian ecology and evolution. Division of Biological Sciences, University of Montana.

Biology 472: Community Ecology. Fall 2015. Island Biogeography. Department of Biology, University of Washington.

Pedagogical Tools:

Translated Darren Irwin's R program HZAM for simulating hybrid zones with assortative mating into an interactive Shiny App: https://elinck.shinyapps.io/hzam_shiny/

Potential Course Contributions:

Evolution, Conservation Genetics, Population Genetics, Phylogenetics, Ornithology, Biogeography, Experimental Design and Biostatistics, Data Science for Biologists, High Altitude Biology, Tropical Biology, Molecular Ecology, Genomics, Science Writing, Scientific Ethics

Selected Popular Writing

Cataclysms to Desolate the World. 2021. *Hypocrite Reader* 96.

Throwing wolves to the vote. 2020. *High Country News*.

Your stroke won't save us. 2018. *High Country News*.

Darwinian Sexual Selection and the Politics of Beauty 2018. *Los Angeles Review of Books*.

Bidding a Woeful Farewell to NSF's Doctoral Dissertation Improvement Grant (DDIG) Program 2017. *Undark Magazine*.

Food Evolution (Review). 2017. *The Stranger*.

Keep it Public. 2017. *Jacobin Magazine*.

How Trump's War on Science Might Hurt the University of Washington. 2017. *The Stranger*.

El Oso Plateado. 2014. *Hypocrite Reader* 39.

Grants, Awards, & Fellowships

American Ornithological Society Kessel Fellowship (declined). 2019. \$15,000.

NSF Postdoctoral Research Fellowship in Biology. 2020-2023. \$207,000.

John S. Edwards Endowed Fund in Biology. 2018. \$1,500.

Hoag Endowed Graduate Fellowship. 2018. \$1,500.

American Museum of Natural History Chapman Grant. 2018. \$2,000.

NSF Doctoral Dissertation Improvement Grant. 2017. \$20,084.

NDSEG Fellowship. 2016. \$172,000.

WRF-Hall Fellowship. 2016. \$13,000.

WRF-Hall Supplemental Funds. 2016. \$5,100.

Society of Systematic Biologists Graduate Student Research Award. 2015. \$1,500

Reed College BURP Fund. 2012. \$1,500.

Reed College Arch and Fran Diack Student Field Research Fund. 2010. \$4,200.

Explorers Club Youth Activity Fund. 2009. \$1,500.

Honors

Elective Member, American Ornithological Society. 2022.

NSF GRFP Honorable Mention. 2016.

NSF GRFP Honorable Mention. 2015.

Commendation for Excellence, Reed College Junior Qualifying Exam. 2011.

Appointments

Assistant Professor. 2023-present. Department of Ecology, Montana State University.

Senior Research Scientist. 2022-2023. Department of Zoology & Physiology, UW Museum of Vertebrates, and The Biodiversity Institute, University of Wyoming.

NSF Postdoctoral Research Fellow in Biology. 2022-2023. Department of Zoology & Physiology, UW Museum of Vertebrates, and The Biodiversity Institute, University of Wyoming.

NSF Postdoctoral Research Fellow in Biology. 2020-2022. Department of Biology & Museum of Southwestern Biology, University of New Mexico.

Research Affiliate. 2019-2020. Taylor Lab, Department Ecology and Evolutionary Biology, University of Colorado, Boulder.

Postdoctoral Research Associate. 2019-2020. Department of Ecology & Evolutionary Biology, University of Tennessee, Knoxville.

National Defense Science and Engineering Graduate Fellow. 2016 - 2019. US Department of Defense.

Contributing Writer. 2016-2018. *The Molecular Ecologist*.

Visiting Researcher. 2016. Department of Ornithology & Mammology, California Academy of Sciences.

WRF-Hall Fellow. 2016. Department of Biology, University of Washington.

Curatorial Assistant. 2016. Burke Museum of Natural History & Culture, University of Washington.

Teaching Assistant. 2014-2016. Department of Biology, University of Washington.

Research Assistant. 2014. Museum of Natural History, University of Colorado, Boulder.

Winter Caretaker. 2013-2014. Rocky Mountain Biological Laboratory.

NSF REU Student. 2013-2014. Summer Systematics Institute, California Academy of Sciences.

Teaching Assistant. 2013. Department of Biology, Reed College.

Research Assistant. 2012. Department of Biology, University of Utah.

NSF REU Student. 2011. Department of Biology, University of Washington.

Students Mentored

Graduate Students:

- Del Hannay (Montana State University, 2023-present, graduate committee member):
experimental design
- Jessie Williamson (University of New Mexico, 2020-2022):
data analysis, grant writing, fellowship applications, public speaking, manuscript writing and publication

- Margaret Mamantov (University of Tennessee, Knoxville, 2019-2020):
data analysis, manuscript writing and publication
- Morgan Fleming (University of Tennessee, Knoxville, 2019-2020):
fieldwork, fellowship applications
- Clare Winfrey (University of Tennessee, Knoxville, 2019-2020):
fieldwork, public speaking

Undergraduates:

- Sabrina Aeluro (University of Washington, 2017-2019):
molecular lab work, scientific specimen preparation, grant writing, fellowship applications
- Michael Tofflemire (University of Washington, 2018):
fieldwork, molecular lab work

Invited Seminars

Linck, E. 2023. Climate fidelity, genetic variation, and evolutionary potential. University of Arizona School of Natural Resources and the Environment Seminar Series, Tucson, AZ.

Linck, E. 2022. Thinking about glacial cycles and speciation with periodic gene flow. USFS Rocky Mountain Research Station ‘Agora’ Meeting, Missoula, MT.

Linck, E. 2022. Blood oxygen-carrying capacity and elevational range breadth in Andean birds. University of Wyoming Zoology & Physiology Seminar Series, Laramie, WY.

Linck, E. 2022. Biodiversity, culture, and conservation in New Guinea. Job Talk, Adams State University, Alamosa, CO.

Linck, E. 2022. The evolution of elevational specialization (and why studying it is hard). University of Montana Evolution and Ecology Seminars, Missoula, MT.

Linck, E. 2019. Niche conservatism, speciation, and range limits on tropical mountainsides. Louisiana State University Museum of Natural Science Seminar Series, Baton Rouge, LA.

Sheldon, K.S., **Linck, E.** (Joint presentation.) 2019. Fisiología térmica, distribuciones y especiación en los trópicos. Universidad Regional Amazónica Ikiam Seminar Series, Tena, Napo, EC.

Linck, E. 2019. Confronting the Recreation-Conservation Divide: A Dialogue (Stegner Lecture). University of Utah Law School Wallace Stegner Center 24th Annual Symposium - Recreation Challenges on Public Lands, Salt Lake City, UT.

Linck, E. 2019. Natural selection, gene flow, and complexity in avian speciation. Pacific Lutheran University Biology Seminar, Tacoma, WA.

Linck, E. 2018. Outdoor Recreation and Land Ethics for the 21st Century. Restoring the West: Multiple Use and Sustained Yield of Resources on Public Land: Is It Still Possible?, Logan, UT.

Linck, E., Freeman, B.G., Dumbacher, J., Klicka, J. 2018. What we talk about when we talk about speciation with gene flow in birds. University of New Mexico Brown Bag Seminar, Albuquerque, NM.

Linck, E., Freeman, B.G., Dumbacher, J., Klicka, J. 2017. Why are there so many bird species in tropical mountains? Insights from genomics and New Guinea kingfishers. University of the South Pacific PaCE-SD Seminar, Suva, Fiji.

Contributed Presentations

Linck, E. 2021. Respiratory plasticity and elevational range breadth in Andean birds. American Ornithological Society Meeting. Virtual.

Linck, E. 2020. Early Professionals Mini-Talk Symposium. North American Ornithological Congress VII. Virtual.

Linck, E., Celi, J.E., Sheldon, K.S. 2019. Climate as a barrier to dispersal over mountain passes: is gene flow reduced across elevational gradients in tropical Andean beetles? Ecological Society of America Meeting, Louisville, KY.

Linck, E., Battey, C.J. 2019. Pleistocene glacial cycles and the relative ease of speciation with periodic gene flow. American Ornithological Society Meeting, Anchorage, AK.

Linck, E., Freeman, B.G., Dumbacher, J., Klicka, J. 2018. Ecological speciation across an elevational gradient in New Guinea Kingfishers? American Ornithological Society Meeting, Tucson, AZ.

Battey, C.J., **Linck, E.**, Epperly, K.L., French, C., Slager, D., Klicka, J. 2017. A Migratory Divide In The Painted Bunting (*Passerina ciris*). (Co-presented poster.) Evolution Meetings, Portland, OR.

Linck, E., Sellas, A., Hanna, Z., Dumbacher, J. 2016. hyRAD, museum genomics, and the phylogeography of a New Guinea forest kingfisher. Evolution Meetings, Austin, TX.

Other Academic Presentations

Linck, E. 2019. Humans, nature, and biodiversity conservation in Melanesia. Graduate Student Symposium, UW Biology, Seattle, WA.

Linck, E., Battey, C.J.. 2018. One weird trick to break *structure*: Derived allele frequencies and the accurate inference of ancestry. Graduate Student Symposium, UW Biology, Seattle, WA.

Battey, C.J., **Linck, E.**, Epperly, K.L., French, C., Slager, D., Klicka, J. 2017. A Migratory Divide In The Painted Bunting (*Passerina ciris*). (Presenting author.) Rocky Mountain Biology Laboratory Graduate Student Talks, Gothic, CO.

Linck, E. 2017. Phenotype, species limits, and adaptation in a New Guinea kingfisher. Graduate Student Symposium, UW Biology, Seattle, WA.

Linck, E., Bridge, E.S., Duckles, J., Navarro-Sigenza, A.G., Rohwer, S. 2016. Assessing migratory behavior in Painted Buntings with specimen collections and remote sensing data. Rocky Mountain Biology Laboratory Graduate Student Talks, Gothic, CO.

Linck, E., Klicka, J., Zarza, E., Bryson Jr., R., McCormack, J. 2016. Phylogenomic phylogeography of the Rufous-capped Brush Finch. Graduate Student Symposium, UW Biology, Seattle, WA.

Urquhart, G.R., Maes, J.M., **Linck, E.** 2015. Critical Uncertainties and Gaps in the Environmental and Social-Impact Assessment of the Proposed Interoceanic Canal through Nicaragua: Terrestrial Biodiversity. Second International Workshop on the Interoceanic Canal through Nicaragua, Managua, Nicaragua. (Panel presentation.)

Linck, E. 2013. Molecular Phylogenetics of the Louisiade White-eye (*Zosterops griseotinctus*.) California Academy of Sciences Summer Systematics Institute Symposium, San Francisco, CA.

Linck, E. 2013. Molecular Phylogenetics of the Louisiade White-eye (*Zosterops griseotinctus*.) Oral Thesis Defense, Reed College, Portland, OR.

Linck, E., Schaack, S., Dumbacher, J. 2013. Molecular Phylogenetics of the Louisiade White-eye (*Zosterops griseotinctus*.) Students Talking About thesis Research (STARs) Seminar Series, Reed College, Portland, OR.

Field Experience

New Mexico, USA 2021. Point count surveys breeding bird elevational ranges as part of the Mountain Bird Network.

Napo Province, Ecuador 2020. Collecting climate data for postdoctoral research with K. Sheldon.

Napo Province, Ecuador 2019. Collecting dung beetles for postdoctoral research with K. Sheldon.

Madang Province, Papua New Guinea. 2018. Collecting genetic material for dissertation research.

E Oregon, USA. 2018. General collecting for UWBM Ornithology.

Napo Province, Ecuador 2018. Collecting dung beetles for collaboration with K. Sheldon.

Chimbu Province, Papua New Guinea. 2017. Collecting genetic material for dissertation research.

E Oregon, USA. 2017. General collecting for UWBM Ornithology.

Idaho & SE Washington, USA. 2015. General collecting for UWBM Ornithology.

Colorado, USA. 2014. Managing Boechera garden plots along an elevational transect.

Colorado, USA. 2013-2014. Winter caretaker at snowbound Rocky Mountain Biological Laboratory field station.

Monteverde, Costa Rica. 2012. Bird surveys of pasture trees and pitfall trapping of dung beetles.

Northern Mariana Islands, USA. 2011. Point count bird surveys and forest ecology.

Sandaun Province, Papua New Guinea. 2010. Mist netting and point count bird surveys.

Oregon, USA. 2010. Bird banding assistant at a wetland molt migrant stopover site.

Michoacan, Mexico. 2010. Assistant naturalist, Expedition Travel / University of Florida group tour of Monarch butterfly colonies.

Southern Highlands Province, Papua New Guinea. 2009. Naturalist in residence, Ambua Lodge.

Gulf Province, Papua New Guinea. 2008. GIS mapping of clan boundaries, Crater Mountain Wildlife Management Area.

Outreach & Service

Natural History Museum Collections

- Periodic preparation of scientific bird specimens for CAS, UWBM, and MSB collections
- Annual participation in UWBM and MSB collecting expeditions
- Tour guide for UW Introductory Biology field trips to UWBM specimen collections
- Regularly helped run the Burke Museum's "Members Night" and "Birds at the Burke" outreach events
- Contribute to MSB outreach events

Service

- Organizer for a graduate student seminar on phylogenetics (2015)
- Organizer of a remote reading group on Andean ornithology (2020)
- Host for prospective graduate students, University of Washington (2015, 2016, 2017, 2018)

- Committee member, University of Washington Graduate-led Action on Diversity and Equity (2018)
- Reviewer, Posewitz Scholarships, Montana State University Department of Ecology (2023)

Contributions to the field

- Multiple articles for the *The Molecular Ecologist*, a field-specific news, literature and methods tutorial website (<http://www.molecular ecologist.com/>)
- Scripts publicly available on GitHub (<http://github.com/elinck>)
- Sequence data publicly available on GenBank / Dryad
- Proposal reviewer for Society of Systematic Biology Graduate Student Research Award, National Science Foundation Division of Environmental Biology
- Peer reviewer for *PNAS*, *Conservation Genetics*, *The Auk*, *Systematic Biology*, *Molecular Ecology*, *Evolution*, *Evolution Letters*, *The American Naturalist*, *Molecular Ecology Resources*, *Molecular Phylogenetics and Evolution*, *PeerJ*, *Axiom Review*, *Ecological Applications*, *PLoS ONE*, *Ecosphere*, *Heredity*, *Genes*, *Genomes*, *Genetics*, *Proceedings of the Royal Society B*, *The Wilson Journal of Ornithology*, *Journal of Biogeography*, *Bulletin of the British Ornithologists' Club*, *Ecological Entomology*, *Emu*, *Ecology and Evolution*, *Journal of Caribbean Ornithology*, *Biology Letters*, *Revista de Biología Tropical*, *Biotropica*, *Journal of Thermal Biology*

Society Membership

The American Ornithological Society, The Society for the Study of Evolution, The American Society of Naturalists, The Society of Systematic Biologists, The Society for Conservation Biology