

(updated 080122)

## Ethan Linck

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## Education

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

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

## Publications

- 16) Pujolar, J.M., Blom, M.P.K., Reeve, A.H., Kennedy, J.D., Marki, P.M., Freeman, B.G., Sam, K., **Linck, E.**, Haryoko, T., Iova, B., Koane, B., Maia, G., Paul, L., Irestedt, M., Jønsson, K.A. 2022. Barriers and gradients: the formation of montane diversity. *Nature Communications* 13, 268.
- 15) **Linck, E.**, 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.**, 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.**, 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.**, 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.**, 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.**, 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.** 2020. Bird Species: How They Arise, Modify and Vanish. *The Auk* 137, 1-2.
- 8) **Linck, E.**, 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 parphyly and a cryptic lineage in a classic sibling species complex. *Systematic Biology* 68(6), 956-966.
- 7) **Linck, E.**, 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.**, 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.**, 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.**, 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.**, 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.**, 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.** 2010. Notes on birds and logistics from the south side of Mount Giluwe, SHP. *Muruk* 10(1), 4-7.

## In Review

Williamson, J.L., **Linck, E.B.**, Bautista, E., Smiley, A., McGuire, J.A., Dudley, R., Witt, C.C. *Submitted*. Oxygen availability drives blood-hemoglobin content and the cell number-size tradeoff across the Andean hummingbird radiation. *Nature Ecology and Evolution*.

**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. *In revision*. Blood variation implicates respiratory limits on elevational ranges of Andean birds. *The American Naturalist*.

Sheldon, K.S., **Linck, E.B.**, Giam, X., McGee, M.R., Arendt, W., Brawn, J.D., DeGroote, L.W., Humple, D.L., Jirinec, V., Rutt, C.L., Stouffer, P.C., Tarwater, C.E., Toms, J.D. *In revision*. Bird body size declines associated with climate warming are greatest in the tropics. *Nature Communications*.

**Linck, E.**, Battey, C.J. *In revision*. On the relative ease of speciation with periodic gene flow. *The American Naturalist*. *bioRxiv* DOI: 10.1101/758664

## Grants, Awards, & Fellowships

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

NSF Postdoctoral Research Fellowship in Biology. 2019. \$138,000.

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

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.

## Other Grantwriting Experience

Global Phenotypic Flexibility in House Sparrows: Are Climate and Metabolic Flexibility Correlated? Co-PI with D. Swanson and B. Wone. Full proposal submitted to **NSF Division of Integrative Organismal Systems** Not funded.

## Teaching Experience

### *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.

### *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/](https://elinck.shinyapps.io/hzam_shiny/)

## Honors

**NSF GRFP Honorable Mention.** 2016.

**NSF GRFP Honorable Mention.** 2015.

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

## Appointments

**NSF Postdoctoral Research Fellow in Biology.** 2020-2022. 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.

## Invited Presentations

**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.

**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.** 2015. Guest Lecture: Island Biogeography. Biology 472: Community Ecology, UW Biology, Seattle, WA.

**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.

## Public Presentations

**Linck, E.** 2017. Natural history museums, DNA, and avian evolution. Trilogy Bird Club, Redmond, WA.

**Linck, E.** 2017. Natural history museums, DNA, and avian evolution. Eastside Audubon Society, Kirkland, WA.

## Selected Popular Writing

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

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

Your stoke 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. *Un-dark 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.

## 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 UWBM collections
- Annual participation in UWBM 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

### 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 (2015, 2016, 2017, 2018)
- Committee member, Graduate-led Action on Diversity and Equity (2018)

### 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/>)

- Peer reviewer, *The Auk*, *Systematic Biology*, *Molecular Ecology*, *Evolution*, *Evolution Letters*, *The American Naturalist*, *Molecular Ecology Resources*, *Molecular Phylogenetics and Evolution*, *PeerJ*, *Axioms Review*, *Ecological Applications*, *PLoS ONE*, *Conservation Genetics*, *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*, Society of Systematic Biology Graduate Student Research Award
- Scripts publicly available on GitHub (<http://github.com/elinck>)
- Sequence data publicly available on GenBank / Dryad

## **Society Membership**

- Elective Member: The American Ornithological Society
- Member: The Society for the Study of Evolution, The American Society of Naturalists, The Society of Systematic Biologists

## **Graduate Committee**

J. Klicka; J. Hille Ris Lambers; R. Olmstead; L. Hauser