



EDUCATION AND TRAINING

- **Life Sciences Fellow, University of Michigan, Ann Arbor, MI**, November 2019 - Present
- **Ph.D., Ecology and Evolutionary Biology, Cornell University – Ithaca, NY**, August 2019
- **B.S., Ecology and Evolutionary Biology, Yale College Class of 2010 – New Haven, CT**

SCIENTIFIC PUBLICATIONS

Under Review

- Field, D.J., **Berv, J.S.**, Hsiang, A.Y., Lanfear, R., Landis, M.J., Dornburg, A. Timing the Extant Avian Radiation: The Rise of Modern Birds, and the Importance of Modeling Molecular Rate Variation. **Invited article** for the Bulletin of the American Museum of Natural History.
- McHugh, Sean W.*, **Berv, J.S.**, Zamudio, K.R. Evolution of Body Size and Sexual Size Dimorphism in Tortoises.
*Undergraduate lead author
- **Berv, J. S.**, Campagna, L., Feo, Teresa J., Castro-Astor, I., Ribas, Camila C., Prum, Richard O., Lovette, Irby J. Genomic phylogeography of the White Crowned Manakin *Pseudopipra pipra* (Aves: Pipridae) illuminates a continental-scale radiation out of the Andes.

Peer reviewed

- An inverse latitudinal gradient in infection probability and phylogenetic diversity for *Leucocytozoon* blood parasites in New World birds, Fecchio, Alan ... **Berv, J.S.**, et al (author list truncated). *Journal of Animal Ecology* (2019). doi.org/10.1111/1365-2656.13117
- Field, D.J., Bercovici, A., **Berv, J.S.**, Dunn, R., Fastovsky, D.E., Lyson, T.R., Vajda, V., Gauthier, J.A. Early Evolution of Modern Birds Structured by Global Forest Collapse at the End-Cretaceous Mass Extinction. **Current Biology** (2018), <https://doi.org/10.1016/j.cub.2018.04.062>, June 4, 2018 cover article (inset right)
 - Summary of press coverage: <https://www.altmetric.com/details/42499989>
- Clark, C.J., McGuire, J.A., Bonaccorso, E., **Berv, J.S.**, Prum, R.O. Complex coevolution of wing, tail, and vocal sounds of courting male bee hummingbirds. **Evolution** (2018), doi: 10.1111/evo.13432
 - Summary of press coverage: <https://www.altmetric.com/details/32417206>
- **Berv, J.S.** Field, D. J., Genomic Signature of an Avian Lilliput Effect across the K-Pg Extinction, **Systematic Biology** (2018), doi:10.1093/sysbio/syx064, January 2018 cover article (inset right)
 - Summary of press coverage: <https://www.altmetric.com/details/21854739>
 - **Publisher's Award for Excellence in Systematic Research**
 - **2018 Ernst Mayr Finalist Presentation: http://bit.ly/JB_Evolution2018**
 - **Ph.D. defense seminar: http://bit.ly/JB_defense_seminar_2019**
- Prum, R.O. *, **Berv, J.S.***, Dornburg, A., Field, D. J., Townsend, J.P., Lemmon, E.M., Lemmon, A. R. A comprehensive phylogeny of birds (Aves) using targeted next-generation DNA sequencing ***co-lead author, Nature** (2015), doi:10.1038/nature15697
 - Summary of press coverage: <https://www.altmetric.com/details/4597252>
- Feo, T., Musser, J., **Berv, J. S.**, Clark, C. J. Divergence in morphology, calls, song, mechanical sounds, and genetics supports species status for the Inaguan hummingbird (Trochilidae: Calliphlox "evelynae" lyrura), **The Auk** (2015), doi:10.1642/AUK-14-108.1
 - Summary of press coverage: <https://www.altmetric.com/details/2996099>
- **Berv, J. S.**, Prum, R.O. A comprehensive multilocus phylogeny of the Neotropical cotingas (Cotingidae, Aves) with a comparative evolutionary analysis of breeding system and plumage dimorphism and a revised phylogenetic classification. **Molecular Phylogenetics and Evolution** (2014), doi:10.1016/j.ympev.2014.09.001
 - Summary of press coverage: <https://www.altmetric.com/details/2687291>



Pre-prints

- **Berv, J. S.**, Campagna, L., Feo, T., Castro-Astor, I., Ribas, C., Prum, R. O., Lovette, J. I., Genomic phylogeography of the White Crowned Manakin *Pseudopipra pipra* (Aves: Pipridae) illuminates a continental-scale radiation out of the Andes. **bioRxiv Preprints**: <https://doi.org/10.1101/713081>.
 - **Talk delivered by Richard Prum: http://bit.ly/Pseudopipra_RP2019**



- Field, D. J., Berv, J. S., Hsiang, A. Y., Lanfear, R., Landis, M. J., & Dornburg, A. (2019). Timing the extant avian radiation: The rise of modern birds, and the importance of modeling molecular rate variation. **PeerJ Preprints**, 7, e27521v27521. doi: 10.7287/peerj.preprints.27521v1

Other Scientific Publications/Reports

- Miller et al, 2007. Phase 072 Expedition Report for The Yachana Foundation and Museo Ecuatoriano de Ciencias Naturales

AWARDS

- **2018 – Publisher’s Award for Excellence in Systematic Research**, \$500: Oxford University Press, award for the best student lead-author paper in the journal *Systematic Biology*, the journal of the **Society of Systematic Biologists**
- **2018 – Society of Systematic Biologists: Ernst Mayr Award Finalist (international competition)**
- **2016 – Society for the Study of Evolution: W.D. Hamilton Award Finalist**, \$500

GRANTS AND FELLOWSHIPS

University of Michigan

- **Life Sciences Fellowship**, Spring 2019

National Science Foundation

- **Postdoctoral Research Fellowship in Biology (collections)**, Spring 2019 (unable to accept)
- **Doctoral Dissertation Improvement Grant**, Spring 2017, \$20,226.00, **DEB-1700786**
- **Graduate Research Fellowship**, Spring 2014 \$138,000, **DGE-1650441**

Scientific Society Grants

- **Society for the Study of Evolution Travel Award**, Spring 2018, \$500
- **Society for Molecular Biology and Evolution Young Investigator Travel Award**, Spring 2018, \$2,450
- **Society for the Study of Evolution W.D. Hamilton Award Finalist**, June 2016, \$500
- **National Science Foundation—Society of Systematic Biologists Travel Award**, Summer 2015, \$1,750
- **Society of Systematic Biologists Graduate Student Research Award**, Fall 2015, \$1,500

Cornell University

- **Melinda and Irwin Simon Student Research Fund**, Spring 2019, (Cornell Lab of Ornithology Fellowship), \$19,829
- **Paul P. Feeny Graduate Student Research Fund**, Summer 2017, (Cornell EEB), \$1,200
- **Paul P. Feeny Graduate Student Research Fund**, Summer 2016, (Cornell EEB), \$1,200
- **Andrew W. Mellon Student Research Grant**, Spring 2016, \$1,000
- **Sigma-Xi small grant**, Spring 2016, (Cornell), \$600
- **Cornell Laboratory of Ornithology Athena grant**, Fall 2015, \$4,000
- **Paul P. Feeny Graduate Student Research Fund**, Summer 2015, (Cornell EEB), \$1,200
- **Andrew W. Mellon Student Research Grant**, Spring 2015, (Cornell), \$1,000
- **Cornell Laboratory of Ornithology Athena Fund**, Fall 2014, \$5,000
- **Paul P. Feeny Graduate Student Research Fund**, Summer 2014, (Cornell EEB), \$1,200
- **Orenstein Fund**, Summer 2014, (Cornell EEB), \$750
- **Charlie E. Treman, Jr. Graduate Fellowship**, Spring 2015 (Cornell Lab of Ornithology Fellowship), \$18,111
- **Kramer Graduate Fellowship**, Summer 2014 (Cornell Lab of Ornithology Summer Fellowship), \$4,950
- **Tyson Graduate Fellowship**, Spring 2014, (Cornell Lab of Ornithology Fellowship) \$18,041
- **Cornell Laboratory of Ornithology Athena Fund**, Fall 2013, \$3,610

Yale University

- **Mellon Forum Undergraduate Research Grant**, Fall 2009, \$500
- **The Yale College Dean’s Research Fellowship in the Sciences**, May 2009, \$2,000
- **Yale Peabody Museum Summer Fellowship**, May 2009, \$5,000
- **The Environmental Fellowship for Study and Research**, May 2009, \$2,000
- **The Yale Science and Engineering Association Fellowship**, May 2009, \$2,000
- **The Alan S. Tetelman Fellowship for Study Abroad**, May 2009 \$1,800
- **Paul K. and Evelyn Elizabeth Cook Richter Scholarship**, May 2009, \$1,500
- **The Environmental Fellowship for Study and Research**, May 2008, \$2,000

SCIENTIFIC CONFERENCE PRESENTATIONS

Evolution 2018, Montpellier, France, August 19-22, 2018

- Recalcitrance of avian divergence times and phylogenetic topology may be related to selection for reduced body size across the K–Pg boundary. **Ernst Mayr Award Finalist Talk.**



Society for Molecular Biology and Evolution, Yokohama Japan, July 8-12, 2018

- Recalcitrance of avian divergence times and phylogenetic topology may be related to selection for reduced body size across the K–Pg boundary. Divergence Time Methodologies Symposium Talk.

Society of Vertebrate Paleontology, Calgary, Canada, August 23-26, 2017

- Post K/Pg Extinction Lilliput Effect may influence avian molecular clocks. Special Symposium Talk.

Ornithological Congress of the Americas, Puerto Iguazú, Argentina, August 8-11, 2017

- Genomic Phylogeography of the White Crowned Manakin (Aves: Pipridae) illuminates cryptic differentiation and extreme song evolution; Genomic Advances Symposium.

Geology Society of America 2016, Denver, Colorado, September 25-28, 2016

- Post K/Pg Extinction Lilliput Effect may influence avian molecular clocks. Special Symposium Talk.

North American Ornithological Congress 2016, Washington, DC, August 16-20, 2016

- Post K/Pg Extinction Lilliput Effect may influence avian molecular clocks. Talk.

Evolution 2016, Austin, Texas, June 26-30, 2016

- Post K/Pg Extinction Lilliput Effect may influence avian molecular clocks. **Hamilton Award Symposium Finalist Talk.**

Neotropical Ornithological Congress, Manaus, Brazil, 2015

- A genomic approach to species delimitation and historical biogeography of the White-Crowned Manakin. Special Symposium Talk.

Evolution 2015, Guarujá, Brazil, June 26-30, 2015

- A Fully Resolved, Comprehensive Genomic Phylogeny of Birds (Aves) using Targeted Next Generation Sequencing. Talk.

Cornell EvoGroup Invited Seminar Speaker, Ithaca, New York, February 5, 2015

- Breeding system and sexual dimorphism may be evolutionarily decoupled in the Neotropical cotingas. Talk.

Cornell Laboratory of Ornithology, Invited Seminar Speaker, Ithaca, New York, September 15, 2014

- A comprehensive Multilocus Phylogeny of the Neotropical Cotingas. Talk.

Evolution 2014, National Evolutionary Biology Synthesis Center, Raleigh, North Carolina, June 20-24, 2014

- A comprehensive Multilocus Phylogeny of the Neotropical Cotingas. Talk.

First Joint Congress on Evolutionary Biology, Ottawa, Ontario, Canada, July 6-10, 2012

- *Emberizoides* (Aves: Thraupidae) population genetics reveal novel biogeographic connections across Amazonia. Poster presentation.

25th International Ornithological Congress, Campos do Jordão, São Paulo, Brazil, August 25-29, 2010

- Genetic data support Sipaliwini Savanna's affiliation with the Brazilian Cerrado. Poster presentation.
- Using radio telemetry to discover cryptic avian nests in dense tropical forest. Poster presentation.

Evolution 2010, Portland State University, Portland, Oregon, June 25-29, 2010

- The phylogeography of South American savanna birds: does genetic data support Sipaliwini savanna's ancestral affiliation with the Brazilian Cerrado? Poster presentation.

Yale University – Department of Ecology and Evolutionary Biology, Senior Symposium 2010

- Phylogeography and the origin of species in Amazonia. Oral presentation, April 28, 2010.

Yale University – Davenport College Mellon Forum, New Haven, CT

- Phylogeography and the origin of species in Amazonia. Oral presentation, April 6, 2010.

Yale Institute for Biospheric Studies, ECOSAVE Conservation Genetics Laboratory, New Haven, CT

- Phylogeography of Suriname's savanna birds & Radio tracking cryptic birds. Oral presentation, Dec 6, 2010.

National Conservation Division of Suriname, Paramaribo, Suriname

- Population genetics of the birds inhabiting Surinamese savannas: Results of field research. Oral presentation, August 20, 2009.

LABORATORY RESEARCH TRAINING

- **Cornell Laboratory of Ornithology, Fuller Molecular Biology Lab, Ph.D. Dissertation Research, Fall 2013–August 2019.**
- **Yale University, Department of Ecology and Evolutionary Biology, Prum Lab, Genetics Researcher, Sept. 2010–May 2013**
- **Yale Institute for Biospheric Studies, YIBS Conservation Genetics Lab, B.S. Thesis Research, March 2009–May 2010.**
- **Yale University School of Medicine, Department of Psychiatry, Research Assistant, Summer 2005, June 2007–January 2008**

FIELD RESEARCH AND BIOLOGICAL COLLECTING

- **Cornell University Department of Ecology and Evolutionary Biology, Brazil, Manakin breeding biology survey, July 2015**
- **Cornell University Department of Ecology and Evolutionary Biology, Kenya Field Ecology T.A, January 2014**
- **Yale University Department of Ecology and Evolutionary Biology, Honduras Field Collecting Assistant, March 2013**
- **Yale University Department of Ecology and Evolutionary Biology, Guatemala Field Collecting Assistant, October 2011**
- **Boston University Dept. of Ecology and Evolution, Milne Bay, Papua New Guinea Field Collecting Assistant, April–June 2011**
- **Yale University Department of Ecology and Evolutionary Biology, Ecuador Collecting Expedition Leader, November 2009**
- **Yale Peabody Museum, Para District, Suriname Collecting Expedition Leader, August 2009**
- **Karongwe Reserve, Limpopo Province, South Africa Field Research Assistant May–July 2008**
- **Yachana Nature Reserve, Ecuador Field Research Assistant May–June 2007**

OUTREACH

- **Invited lecturer** in Phylogenetic Systematics; Cornell BioEE3730: Biodiversity and Biology of Marine Invertebrates
- **Scientific Consultant (consultant credit):** The Magic School Bus Rides again, Netflix 2017



- **Larry King Memorial Keynote Lecture**, Rochester Academy of Science Fall Paper Session, November 12, 2016: SURVIVING THE MASS EXTINCTION: The Amazing Story of Bird Recovery and Radiation after the End-Cretaceous Catastrophe.
- SUNY Orange Community College, **Public Lecture**, October 2016, Dino-Birds? How modern evolutionary biology has changed our understanding of bird diversity.
- Cornell Laboratory of Ornithology Fall Seminar **Invited Speaker**, Ithaca NY, September 2016. Talk.
- SUNY ESF, Earth Week **Invited Speaker**, Syracuse, NY, April 2016, Talk.
- Centro Universitario Regional del Litoral Atlantico, La Ceiba, Honduras, March 20, 2013. "From Genes to Trees"
- Radio Milne Bay, Papua New Guinea. June 2011. "Museum Research and Specimen Collecting"
- Yale University Mellon Forum, New Haven, CT, April 6, 2010. "The origin of species in Amazonia"
- National Conservation Division of Suriname, Paramaribo SR. August 20, 2009. "Field expedition to Boven Coesewijne Savanna"
- Tzaneen Elementary School, Limpopo Province, South Africa, May 2008. Series of presentations on megafaunal research.
- Yachanna Technical High School, Napo Province, Ecuador, June 2007. Series of presentations on conservation research

TEACHING

Courses Taught

- Cornell University, Fall 2013, 2014, 2015, 2018. BIOEE 1780 Evolutionary Biology and Diversity – "Writing in the Majors"
 - **Original semester-long writing seminar taught in association with lecture, focused on Active Learning and student engagement.** Sponsored by the John. S. Knight Institute for Writing in the Disciplines.
- Cornell University, Winter Session 2014 – BIOEE 2650, Tropical Field Ecology and Behavior (taught in Kenya)

Undergraduate Mentorship

- Daniel Williams, Yale College Class of 2011, senior thesis
- Daniel Veronese, Cornell College of Arts and Sciences Class of 2017
- Hyun Seok Yoon, Cornell College of Arts and Sciences Class of 2017
- Andrew Dreelin, Cornell College of Arts and Sciences Class of 2018
- Eric Sibbald, Cornell College of Arts and Sciences Class of 2016
- Sean McHugh, Cornell College of Arts and Science Class of 2018
- Matthew Granger, University of Bath, Class of 2019

WORKSHOPS AND WORKING GROUPS

Identifying and Responding to Implicit Biases in STEM 2018 Workshop (Cornell)

Evolutionary Quantitative Genetics: Friday Harbor Labs 2017 Workshop

National Evolutionary Synthesis Center, Durham NC 2014 Workshop on Next Gen Sequencing and Phylogenomics

SSE/SSB/ASN Evolution Meeting: Guarujá, Brazil 2015 NSF-SSB Workshop on Phylogenetic Comparative methods

PROFESSIONAL SERVICE

Professional Societies

American Society of Naturalists, *Student member*
 Society for Integrative and Comparative Biology, *Student member*
 Society of Systematic Biologists, *Student member*
 Society for the Study of Evolution, *Student member*
 American Ornithological Society, *Student member*
 Geological Society of America, *Student member*
 Society of Vertebrate Paleontology, *Student member*

Diversity Enhancing Activities

Mentorship of underrepresented minority STEM undergraduates
 Cornell Diversity Preview Weekend (housing, logistics, and application reviewer, inclusivecornell.org)

Cornell EEB departmental service

GSA Invited Speaker Committee (2013, 2014, 2015)
 GSA Holiday Party Committee (2016)
 GSA graduate student representative at faculty meetings (2017)

Journal Reviewer

- Proceedings of the Royal Society B (3)
- Molecular Phylogenetics and Evolution (5)
- Molecular Biology and Evolution (2)
- Molecular Ecology (3)
- The Auk (1)
- Evolution (3)
- Journal of Biogeography (3)
- Biological Journal of the Linnean Society (1)
- Zootaxa (1)
- PeerJ (2)
- Nature (1)
- Systematic Biology (2)
- Functional Ecology (1)
- Gondwana Research (1)
- Proceedings of the National Academy of Sciences (1)



PHOTOGRAPHY (UNDERGRADUATE)

Yale Environmental News

- Fall 2011, Vol.17, No. 1. – The Challenge of Hunting Tropical Hummingbirds – photos only.
- Fall/Winter 2009/2010. Vol. 15, No. 1– The ancestry and genetic differentiation of Surinamese savanna specialists.
- Winter 2009 / Vol. 14, No. 1 – Karongwe Game Reserve Summer 2008 Research Report.

Natural History Magazine Online

- Another Tenderfoot: Reflections on lessons learned by another young scientist eighty years ago. Photos by Jacob Berv.
<https://www.naturalhistorymag.com/endpaper/012456/another-tenderfoot>

Smithsonian

- Smithsonian.com Photo of the day, December 17, 2009.

Photography awards and grants:

- **Louis Sudler Award for the Creative and Performing Arts**, Yale University, Fall 2008, Spring 2009, Spring 2010. \$500 3x.
- **Photographer's Forum 29th Annual College Photography Contest** Spring 2009. Finalist, Sponsored by Nikon - *Ice Caves of Salzburg*
- **The Yale Globalist Magazine International Photography Contest** Fall 2008. *Lions in Karongwe* – 2nd place.

PRIMARY REFERENCES

- **Irby Lovette, Ph.D.** Fuller Professor of Ornithology, Cornell University, ijl2@cornell.edu (Ph.D. Committee Chair)
- **Richard O. Prum, Ph.D.** W.R. Coe Professor of Ecology and Evolutionary Biology, Yale Peabody Museum. Richard.Prum@yale.edu
- **Daniel J. Field, Ph.D.** University Lecturer, Department of Earth Sciences, University of Cambridge, djf70@cam.ac.uk
- **Amy McCune, Ph.D.** Senior Associate Dean, Faculty Curator of Ichthyology, Cornell University, arm2@cornell.edu
- **Kristof Zyskowski, Ph.D.** Collections Manager, Yale Peabody Museum. Kristof.Zyskowski@yale.edu