

Jill E. Jankowski

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CURRENT POSITION

Associate Professor, Biodiversity Research Centre and Department of Zoology
University of British Columbia July 2022 - present

PROFESSIONAL EXPERIENCE

Assistant Professor, Biodiversity Research Centre and Department of Zoology
University of British Columbia 2012 - 2022

Biodiversity Postdoctoral Fellow, Biodiversity Research Centre
University of British Columbia 2010 - 2012

Curator of Ross Biological Reserve, Dept. of Biological Sciences
Purdue University 2003 - 2004

EDUCATION

University of Florida, Gainesville, Florida

Ph.D., Biology, Advisors: Douglas Levey, Scott Robinson 2010

Purdue University, West Lafayette, Indiana

M.Sc., Ecology, Evolution and Population Biology, Advisor: Kerry Rabenold 2004

B.Sc., Ecology, Evolution and Population Biology w/ Honors (Spanish minor) 2002

PEER-REVIEWED PUBLICATIONS (* = grad student co-authors, § = undergraduate co-authors)

32. *Boehm, M., §Guevara Apaza, D., **Jankowski, J.E.**, Cronk, Q. (2022) Floral phenology of an Andean bellflower and pollination by Buff-tailed Sicklebill hummingbird. *Ecology and Evolution* 12(6): e8988.
31. *Boehm, M., **Jankowski, J.E.**, Cronk, Q. (2022) The inside curve: geometry and pollination ecology of curved flowers. *American Naturalist* 199(2): 206–222.
30. *Scholer, M.N., Kennedy, J.C., Carnes, B.H., **Jankowski, J.E.** (2021) Preformative molt, plumage maturation, and age criteria for seven species of manakins. *Wilson Journal of Ornithology* 133(3): 379-526.
29. **Jankowski, J.E.**, Kyle, K.O., Ciecka, A.L., Gasner, M., Rabenold, K.N. (2021) Response of avian communities to edges of tropical montane forests: Implications for the future of endemic habitat specialists. *Global Ecology and Conservation* 30: e01776. DOI: 10.1016/j.gecco.2021.e01776
28. *Scholer, M.N., *Strimas-Mackey, M., **Jankowski, J.E.** (2020) A meta-analysis of global avian survival across species and latitude. *Ecology Letters* 23: 1537-1549. DOI: 10.1111/ele.13573
27. §Pavan, L., Hazlehurst, J., **Jankowski, J.E.** (2020) Patterns of territorial space utilization in a tropical montane hummingbird (*Aglaeactis cupripennis*). *Journal of Field Ornithology* 91: 1–12. DOI: 10.1111/jfo.12321

26. *Scholer, M.N., Arcese, P., Puterman, M. L., Londoño, G.A., **Jankowski, J.E.** (2019) Survival is negatively related to basal metabolic rate in tropical Andean birds. *Functional Ecology* 33: 1436–1445. DOI: 10.1111/1365-2435.13375
25. *Scholer, M.N., **Jankowski, J.E.** (2019) New and noteworthy distributional records for birds of the Manu Biosphere Reserve. *Cotinga* 41: 87–90.
24. *Cespedes, L., *Pavan, L., Hazlehurst, J., **Jankowski, J.E.** (2019) The behavior and diet of the shining sunbeam (Trochilidae): A territorial, high elevation hummingbird. *Wilson Journal of Ornithology* 131: 24–34. DOI: 10.1676/18-79.1
23. *David, S., **Jankowski, J.E.**, Londoño, G.A. (2018) Combining multiple sources of data to uncover the natural history of an endemic Andean hummingbird: The Peruvian Piedtail. *Journal of Field Ornithology* 89: 315–325.
22. *Scholer, M.N., Merkord, C.L., Londoño, G.A., **Jankowski, J.E.** (2018) Minimum longevity estimates for some Neotropical land birds of southeastern Peru. *Wilson Journal of Ornithology* DOI: 10.1676/17-095.1
21. §Soto Patiño, J. Londoño, G.A., Johnson, K.P., Wechstein, J.W., Avendaño, J.E., **Jankowski, J.E.**, Catanach, T.A., Sweet, A.D., Allen, J. (2018) Composition and distribution of lice (Insecta: Phthiraptera) on Colombian and Peruvian birds: New data on louse-host associations in the Neotropics. *Biodiversity Data Journal* 6: e21635 DOI: 10.3897/BDJ.6.e21635.
20. *Kennedy, J.J., *Heavyside, J., **Jankowski, J.E.**, *Scholer, M.N. (2018) Molt patterns and sexing and aging criteria for ten species of high elevation landbirds from southeastern Peru. *Ornitologia Neotropical* 29: S63–S73. **Special Issue**
19. *Boehm, M., *Scholer, M., *Kennedy, J., *Heavyside, J., Daza, A., Guevara-Apaza, D., **Jankowski, J.** (2018) The Manú Gradient as a study system for bird pollination. *Biodiversity Data Journal* 6: e22241. DOI: 10.3897/BDJ.6.e22241
18. Godsoe, W., **Jankowski, J.**, Holt, R.D., Gravel, D. (2017) Integrating biogeography with contemporary niche theory. *Trends in Ecology and Evolution* 32: 488–499. DOI: <http://dx.doi.org/10.1016/j.tree.2017.03.008>
17. Londoño, G.A., Chappell, M.A., **Jankowski, J.E.**, Robinson, S.K. (2017) Do thermoregulatory costs limit altitude distributions of Andean forest birds? *Functional Ecology* 31: 204–215 DOI:10.1111/1365-2435.12697
16. Godsoe, W., Holland, N.J., Cosner, C., Kendall, B.E., Brett, A., **Jankowski, J.**, Holt, R.D. (2016) Interspecific interactions and range limits: contrasts among interaction types. *Theoretical Ecology* 1–13.
15. Londoño, G.A., Chappell, M.A., del Rosario Castañeda, M., **Jankowski, J.E.**, Robinson, S.K. (2014) Basal metabolism in tropical birds: Latitude, altitude, and the “Pace of Life” *Functional Ecology* 29: 338–346. DOI: 10.1111/1365-2435.12348.
14. Vellend, M., Srivastava, D.S., Anderson, K.M., Brown, C.D., **Jankowski, J.E.**, Kleynhans, E.J., Kraft, N.J., Letaw, A.D., Macdonald, A.A.M., Maclean, J.E., Myers-Smith, I.H., Norris, A.R., Xue, X. (2014) Assessing the relative importance of neutral stochasticity in ecological communities. *Oikos* 123: 1420–1430.
13. MacDonald, E.C., Camfield, A.F., **Jankowski, J.E.**, Martin, K. (2014) An alpine-breeding songbird can adjust dawn incubation rhythms to annual thermal regimes. *The Auk* 121: 495–506.
12. MacDonald, E.C., Camfield, A.F., **Jankowski, J.E.**, Martin, K. (2013) Extended incubation recesses for alpine breeding Horned Larks (*Eremophila alpestris*): a strategy for dealing with inclement weather? *Journal of Field Ornithology* 84: 58–68.

11. **Jankowski, J.E.**, Merkord, C.L., Rios, W.F., Cabrera, K.C., Salinas R., N., Silman, M.R. (2013) The relationship of tropical bird communities to tree species composition and vegetation structure along an Andean elevational gradient. *Journal of Biogeography*. 40: 950–962.
10. **Jankowski, J.E.**, Londoño, G.A., Robinson, S.K., Chappell, M.A. (2013) Exploring the role of physiology and biotic interactions in determining elevational ranges of tropical animals. *Ecography*. 36: 1–12 (**Editor's Choice**)
9. **Jankowski, J.E.**, Touchton, J.M., Graham, C.H., Robinson, S.K., Parra, J.L., Seddon, N., Tobias, J.A. (2012) The role of competition in structuring tropical bird communities. *Ornitología Neotropical*. 23: 115–124.
8. Caughlin, T., Wheeler, J., **Jankowski, J.E.**, Lichstein, J.W. (2012) Urbanized landscapes favored by fig-eating birds increase invasive but not native juvenile strangler fig abundance. *Ecology* 93: 1571–1580.
7. Laurance, W.F., Useche, D.C., Shoo, L.P., Herzog, S.K., Kessler, M. Escobar, F., Brehm, G., Axmacher, J.C., Chen, I. Arellano G., L., Hietz, P., Fieldler, K., Pyrcz, T., Wolf, J., Merkord, C.L., Cardelus, C., Marshall, A.R., Ah-Peng, C., Aplet, G.H., del Coro A., M., Baker, W.J., Barone, J., Bruhl, C.A., Bussmann, R.W., Cicuzza, D., Eilu, G., Favila, M.E., Hemp, A., Hemp, C., Homeier, J., Hurtado, J., **Jankowski, J.E.**, et al. (2011) Global warming and the vulnerability of tropical biota: Where do thermal specialists live? *Biological Conservation* 144: 548–557.
6. Gasner, M.R., **Jankowski, J.E.**, Ciecka, A.L., Kyle, K.O., Rabenold, K.N. (2010) Projecting impacts of climate change on Neotropical montane forests. *Biological Conservation* 143: 1250–1258.
5. **Jankowski, J.E.**, Robinson, S.K., Levey, D.J. (2010) Squeezed at the top: Interspecific aggression may constrain elevational ranges in tropical birds. *Ecology* 91: 1877–1884. (**Cover Article**)
4. Levey, D.J., Londoño, G.A., §Ungvari-Martin, J., §Hiersoux, M.R., **Jankowski, J.E.**, Poulsen, J.R., Stracey, C.M., Robinson, S.K. (2009) Urban mockingbirds quickly learn to identify individual humans. *Proceedings of the National Academy of Sciences USA* 106: 8959–8962.
3. Steadman, D.W., Montambault, J.R., Robsinson, S.K., Oswalt, S.N., Brandeis, T.J., Londoño, G.A., Reetz, M.J., Schelsky, W.M., Wright, N.A., Hoover, J.P., **Jankowski, J.**, Kratter, A.W., Martinez, A., Smith, J. (2009) Relative abundance, habitat use, and long-term population changes of wintering and resident landbirds on St. John, U.S. Virgin Islands. *Wilson Journal of Ornithology* 121: 41–53.
2. **Jankowski, J. E.**, Ciecka, A.L., §Meyer, N.Y., Rabenold, K.N. (2009) Beta diversity along environmental gradients: Implications of habitat specialization in tropical montane landscapes. *Journal of Animal Ecology* 78: 315–327.
1. **Jankowski, J.E.** & Rabenold, K.N. (2007) Endemism and local rarity in birds of Neotropical montane rainforest. *Biological Conservation* 138: 453–463.

SUBMITTED MANUSCRIPTS

- *Muñoz, J., **Jankowski, J.E.** (*submitted*) Mixed-species bird assemblages in a community context. *Philosophical Transactions of the Royal Society B* [manuscript invited for special issue]
- MacPherson, M.P., Burgio, K.R., DeSaix, M.G., Freeman, B.G., Herbert, J., Herman, R., Jirinec, V., Shonfield, J., Slager, D.L., van Rees, C.B. and **Jankowski, J.E.** (*in revision*) Predicting bird distributions under global change. *Ornithological Applications* [manuscript resulting from NAOC symposium]. Preprint on BioRxiv: <https://biorxiv.org/cgi/content/short/2021.05.26.445867v1>]

MANUSCRIPTS IN PREPARATION (manuscript drafts available)

- Jankowski, J.E.**, *Boehm, M., *Muñoz, J.M., *Scholer, M.N., Gomez, J.P., Londoño, G.A., Robinson, S.K. (*in prep for Ecological Monographs*) Range sizes and response shapes of tropical birds along an Andean elevational gradient.
- Jankowski, J.E.**, Gomez, J.P., Robinson, S.K. (*in prep for Ecography*) The ecology and evolution of species replacements and elevational zonation in a Neotropical mountain.
- *Boehm, M. M. A., **Jankowski, J. E.**, Cronk, Q. C. B. (*in prep for Methods in Ecology and Evolution*) curvr: an R package for measuring total curvature from landmarked specimens.
- §Lau, G., Allen, J., **Jankowski, J.E.** (*in prep for Journal of Biogeography*) Avian hosts as islands for ectoparasites: A test of the species-area relationship.
- §Dyck-Chan, L., *David, S., **Jankowski, J.E.** (*in revision with Journal of Field Ornithology*) Resource specialization and range overlap of tropical hermit hummingbirds.
- §Aubertin-Young, M.A.R., §Guevara Apaza, D., **Jankowski, J.E.**, *Scholer, M.N. (*in prep for Zookeys*) The flower mite (Acari, Mesostigmata) affiliations of specialist hummingbird *Eutoxeres condamini* in Peru with description of new species in *Tropicoseius* Baker and Yunker, 1964 and *Proctolaelaps* Berlese, 1923.
- Jankowski, J.E.**, Gasner, M.R., Ciecka, A.L., Kyle, K.O., Rabenold, K.N. (*in prep for Ecological Applications*) Population variability in tropical birds and implications for the design of monitoring studies.
- Sekercioglu, C.H., **Jankowski J.E.**, Neate-Clegg, M.H.C., Ocampo-Penuela, N., Peres, C.A., Terborgh, J. (*proposal accepted for Special Issue in Frontiers in Conservation Science*) Long-Term Research on Avian Conservation Ecology in the Age of Global Change and Citizen Science. Abstract Submission Deadline May 1, 2023.

BOOK CHAPTERS

- Jankowski, J.E.**, Sinclair, A.R.E., Metzger, K.L. (2015) Birds of the Serengeti Ecosystem: Spatial patterns of taxonomic and functional richness and turnover. In *Serengeti IV: Sustaining biodiversity in a coupled human-natural system*. (eds. A.R.E. Sinclair, K.L. Metzger, S.A.R. Mduma and J.M. Fryxell) University of Chicago Press.

BOOK REVIEWS

- Jankowski, J.E.** (2012) Interspecific competition in birds: Where does the evidence leave us? *Ecology* 93: 2299–2301.

EDUCATIONAL RESOURCES

- Jankowski, J.E.**, Londoño, G.A., Merkord, C.L. (2009) *Photographic guide of the birds of Centro de Investigación Wayqecha*. Photo contributors: Butrón, R., Chaves, J., Jankowski, J., Koch, P., Londoño, G., Merkord, C., Peterson, Z., Spalding, A. Asociación para la Conservación de la Cuenca Amazonica, Cusco, Peru.
- Ciecka, A., Gasner, M., **Jankowski, J.**, Kyle, K., Rabenold, K., Spalding, A. (2008) *Vocalizations of the Top 101 Monteverde Pacific-slope Forest Birds*. Department of Biological Sciences, Purdue University.

GRANTS

- Canadian Institute for Ecology and Evolution (CIEE) Working Group Grant. *Synthesis of biodiversity patterns along tropical productivity gradients*. Co-Organizers: Leticia Aviles, Naomi Schwartz. February 2024. (\$12,000; Submitted).

Support for Teams to Advance Interdisciplinary Research (STAIR). *Integrating satellite remote sensing and bioacoustic data to untangle drivers of tropical biodiversity*. Co-PI: Naomi Schwartz. 2022-2023. \$45,000.

Canadian Institute for Ecology and Evolution (CIEE) Working Group Grant. *Species ranges, diversity and life history of Neotropical birds*. Co-Organizers: Julie Allen, Jenny Muñoz, Gustavo Londoño. September 2022. \$11,830.

New Frontiers in Research Fund (NFRF). *Distributed experiments to overcome pandemic lockdowns while promoting equity, diversity and global knowledge*. Co-Applicant status (PI: Anna Hargreaves). 2022-2023. \$250,000.

Biodiversity Research Centre (BRC) Grants for Catalyzing Research Clusters (GCRC). *Assessing complexity and biodiversity along productivity gradients*. Co-PI: Leticia Aviles. 2021-2022. \$30,000.

Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant (Evolution and Ecology). *Species ranges, diversity and life history of Neotropical montane birds*. 2019-2024. \$235,000.

Canada Foundation for Innovation (CFI) John R. Evans Leaders Fund. *Facility for the integrative study of species ranges*. 2015-2017. \$402,061.

Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant (Evolution and Ecology). *Species ranges and diversity patterns in temperate and tropical montane birds*. 2012-2017. \$125,000.

National Science Foundation (DEB & OES). *What determines altitudinal distributions of Andean birds? The relative importance of species interactions and physiology*. Co-PI's: Mark Chappell, Gustavo Londoño, Scott Robinson. 2011-2014. \$800,000

University of British Columbia, School of Science Postdoctoral Travel Grant. 2011. \$2200

National Science Foundation Doctoral Dissertation Improvement Grant. 2009. \$11,287

Graduate Research Grant, Amazon Conservation Association. 2007. \$5,630

Student Research Grant, Animal Behavior Society. 2007. \$950

Sigma Xi Grant-in-Aid-of-Research, 2003, 2006. \$500

FELLOWSHIPS AND AWARDS

Biodiversity Postdoctoral Fellowship, Biodiversity Research Centre, 2010-2012

Innovation through Institutional Integration (I3) Teaching Award, University of Florida, 2010
Inquiry-based Activity on the Effects of Ambient Noise on Bird Song Transmission

Innovation through Institutional Integration (I3) Writing Award, University of Florida, 2010

American Ornithologists' Union Student Research Award, 2003, 2005

Brian Riewald-Olowo Award, Department of Zoology, University of Florida, 2005

Alumni Graduate Fellowship, University of Florida, 2004

A.E. Bergstrom Research Award, Association of Field Ornithologists, 2003

Alton A. Lindsey Graduate Fellowship in Ecology, Purdue University, 2003

TEACHING EXPERIENCE

University of British Columbia, Vancouver, British Columbia

Professor, *Tropical Ecology & Conservation*, BIOL 424, Dept of Zoology, Spring 2020-2022

Professor, *Advanced Topics in Community Ecology: Analysis of community structure and diversity*, BIOL 548G, Dept of Zoology, Spring 2022

Professor, *Zoogeography*, BIOL 413, Dept of Zoology, Spring 2014-2021

Professor, *Conservation Biology*, BIOL 416, Dept of Zoology, Spring 2018

Professor, *Field course in Ecology*, BIOL 409, Dept of Zoology, Summer 2016

Professor, *Fundamentals of Ecology*, BIOL 230, Dept of Zoology, Fall 2014, Spring 2022

University of Florida, Gainesville, Florida

Teaching Assistant, *General Ecology*, Profs. Michelle Mack & Robert Holt, Spring 2009

Teaching Assistant, *Integrative Principles of Biology II Lab*, Prof. Kent Vliet, Fall 2008, 2009

Teaching Assistant, *Lab in Biological Sciences*, Prof. Kent Vliet, Summer 2009

Teaching Assistant, *Avian Biology*, Prof. Douglas Levey, Spring 2007-2008, 2010

Purdue University, West Lafayette, Indiana

Teaching Assistant, *Introductory Field Ecology*, Profs. Jeff Lucas, Kerry Rabenold, Spring 2003

Teaching Assistant, *Conservation Biology*, Prof. Kerry Rabenold, Fall 2002

Undergraduate Teaching Assistant, *Field Ecology*, Prof. Kerry Rabenold, Fall 2001

MENTORING OF STUDENTS

Doctoral Students:

Mannfred Boehm (co-advised with Quentin Cronk): *The role of ecological interactions in community assembly of Neotropical bellflowers and hermit hummingbirds*

Santiago David: *Tropical mountaintop specialists under increasing risk of extinction with climate change*

Jenny Muñoz: *Evolutionary and ecological implications of mixed-species group-living behavior in terrestrial birds*

Karina Torres (co-advised with Leticia Aviles): *Host-parasitoid interactions along elevational gradients in eastern Ecuador*

(Graduated 2020) Micah Scholer: *Demographic characteristics and population dynamics in Andean bird communities*

(Graduated 2017) Alys Granados (co-advised with Jed Brodie) *Ecological effects of disrupting plant-animal interactions*

Masters Students:

Rory Macklin: *Range shifts and competitive dynamics of the Black-capped Chickadee and Chestnut-backed Chickadee in the Lower Mainland and Vancouver Island, British Columbia*

(Graduated 2022) Billi Krochuk: *Multiple metrics of community structure and beta diversity inform investigations of community assembly in two Afromontane systems.*

(Graduated 2016) Santiago David. *Phylogeny and niche structure in a community of antbirds (Thamnophilidae: Aves).*

(Graduated 2016) Jenny Muñoz. *The role of facilitation in the structure of tropical bird communities: A case study of mixed-species flocks.*

(Graduated 2016) Andrew Cook. *Description of the cophylogenetic relationship between the Myrsidea chewing louse and its Neotropical Mionectes flycatcher host.*

(Graduated 2012) Elizabeth MacDonald. *Songbird Incubation Dilemmas in the Alpine: Managing Parent-Offspring Trade-Offs in a Variable Thermal Environment*.

Undergraduate Student Honors Thesis/Directed Studies Projects:

(Graduated 2021) Paniz Tabibzadeh, University of British Columbia, Vancouver, BC, Canada. Directed Studies. *Detecting distribution shifts in Andean birds using response curves*.

(Graduated 2021) Geoffrey Lau, University of British Columbia, Vancouver, BC, Canada. Honors Thesis. *Avian hosts as islands for ectoparasites: A test of the species-area relationship*.

(Graduated 2020) David Guevara, Visiting International Research Student, Universidad Nacional San Antonio Abad del Cusco, Cusco, Peru. Directed studies. *Identification of North and South Peruvian mite-hummingbird-flower relationships*.

(Graduated 2019) Judy Wu, University of British Columbia, Vancouver, BC, Canada. Directed Studies. *Thermal adaptation and the structure of feathers in tropical birds*.

(Graduated 2019) Macgregor Aubertin-Young, University of British Columbia, Vancouver, BC, Canada. Honors Thesis. *Hummingbird Express: Hummingbird flower mites on a specialist hummingbird*.

(Graduated 2017) Laura Dyck-Chan, University of British Columbia, Vancouver, BC, Canada. Honors Thesis (NSERC USRA Award) *Resource specialization and range overlap of tropical hermit hummingbirds*.

(Graduated 2017) Dani Valgardson, University of British Columbia, Vancouver, BC, Canada. Project title (NSERC USRA Award) *Species co-evolution and symbiotic relationship of feather mite fauna and Neotropical Woodcreepers*.

(Graduated 2017) Paul Chiu, University of British Columbia, Vancouver, BC, Canada. Honors Thesis. *An analysis of avian population trends in Metro Vancouver's Stanley Park*.

(Graduated 2015) Nancy Chen, University of British Columbia, Vancouver, BC, Canada. Project title (NSERC USRA Award) *Improving ecological database management system for entry and organization of avian survey data*.

(Graduated 2014) Lucas Pavan, University of British Columbia, Vancouver, BC, Canada. Honors Thesis (Dean of Science Award): *Patterns of territorial space utilization in a montane tropical hummingbird (*Aglaeactis cupripennis*)*.

(Graduated 2014) Ines Moran, University of British Columbia, Vancouver, BC, Canada. Project title (directed studies): *Absence of matching songs in orange-billed nightingale-thrushes of Tilaran mountains of Costa Rica*

(Graduated 2013) Andrew Cook, University of British Columbia, Vancouver, BC, Canada. Project title (directed studies): *Intraspecific density-dependent effects on the acoustic characteristics of tropical songbirds*.

(Graduated 2014) Torin Heavyside, University of British Columbia, Vancouver, BC, Canada. Project title (Dean of Science Award): *Variation in baseline corticosterone levels across species' elevational ranges*.

(Graduated 2012) Rosalbina Butrón Loayza, Universidad Nacional de San Antonio Abad del Cusco, Cusco, Peru. Project title: *Estudio comparativo de la estructura de las comunidades de aves en parches de bambu y sitios sin bambu en el Parque Nacional del Manu*.

(Graduated 2010) Marcela Salazar, University of Florida, Gainesville, Florida, USA. Project title: *How does avian song vary with elevation? The role of body size and sexual selection in song diversification.*

(Graduated 2011) Maura Jurado Zevallos, Universidad Nacional Agraria la Molina, Lima, Peru. Honors Thesis: *Variación en la composición de la avifauna en el Centro de Investigación Wayqecha durante la época seca.*

(Graduated 2009) Michelle Feole, University of Florida, Gainesville, Florida, USA (co-mentored with Christine Stracey). Project title: *Urban bioacoustics: Consequences of anthropogenic noise on Northern Mockingbird (Mimus Polyglottos) song.*

Graduate Student Committees:

Masters students: Rory Macklin, Mark Robertson

Doctoral students: Mannfred Boehm, Santiago David, Andrea Haberkern, Jessica Kowalski, Jenny Muñoz, Mikko Paajanen, Andrew Simon, Karina Torres, Natalie Westwood

Past student committees: PhD: Megan Bontrager, Luis Camacho, Uriel Garcilazo, Alys Granados, Jenny Hazlehurst (Tulane University, USA), J. Tomas Ibarra, Micah Scholer, Paolo Segre. MSc: Cheng Chen, Andrew Cook, Santiago David, Gyan Harwood, Julian Heavyside, Catherine Hoffman, Kate Johnson, Haley Kenyon, Billi Krochuk, Qin Li, Beth MacDonald, Jenny Muñoz, Mark Robertson, Keerthikrutha Seetharaman

Service as departmental or external examiner for thesis defenses: Samantha Strauss (PhD, Zoology, March 2022), Mizuki Kurashina (chair, MSc, Zoology, September 2020), Devin de Zwaan (PhD, UBC Forestry, February 2020); Anna Echeverri (PhD, UBC IRES, August 2019); Tonya Ramey (PhD, UBC, Forestry and Conservation, March 2019); Madelyn Ore (MSc, UBC Zoology, March 2019); Matt Siegle (PhD, UBC Zoology, July 2017); Megan Young (BSc Honors, UBC Zoology, April 2015); Megan Vaughan (MSc, UBC Zoology, April 2015); Jocelyn Nelson (MSc, UBC Zoology, April 2014); Gyan Harwood (MSc, UBC Zoology, October 2013); Ross Whippo (MSc, UBC Zoology, December 2013); Gennifer Meldrum (MSc, UBC Zoology, July 2012); Chad Nordstrom (MSc, UBC Zoology, May 2012)

WORKING GROUPS

CIEE (Canadian Institute of Ecology and Evolution) Working Group – Synthesis of biodiversity patterns along tropical productivity gradients (Principal organizer). *Planned for February 19-23, 2024.*

CIEE (Canadian Institute of Ecology and Evolution) Working Group – Species ranges, diversity and life history of Neotropical birds (Principal organizer). Meeting dates: September 19-24, 2022.

NIMBioS (National Institute for Mathematical and Biological Sciences) Working Group – Biotic Interactions (participating researcher). Meeting dates: Feb 1-4, 2013; Sep 23-26 2013, May 12-16, 2014, May 11-15, 2015. http://www.nimbios.org/workinggroups/WG_biotic_interactions

PRESENTATIONS (all presentations are talks unless otherwise indicated)

Association for Tropical Biology and Conservation, Cartagena, Colombia, 2022

American Ornithological Society, San Juan, Puerto Rico, 2022

Invited Talk (virtual), Department of Biological Sciences, Florida International University, 2022

Invited Talk (virtual), Department of Ecology and Evolutionary Biology, University of Arizona, 2021

Andes Biodiversity & Ecosystem Research Group (online forum), 2020

Symposium Speaker (online), North American Ornithological Congress, 2020

Association for Field Ornithologists - Wilson Ornithological Society, Cape May, NJ, USA, 2019

Symposium Speaker and Co-organizer, International Biogeography Society, Quito, Ecuador 2019
Invited Symposium Speaker, American Ornithological Society, Anchorage, AK, USA 2019
Invited Talk, Department of Biology, University of Miami, FL, USA 2019
International Ornithological Conference, Vancouver, BC, Canada 2018
Invited Symposium Speaker, American Ornithological Society, Tucson, AZ, USA 2018
Invited Symposium Speaker, Int'l Association for Landscape Ecology, Portland OR, USA 2015
Invited Symposium Speaker, Ecological Society of America, Sacramento, CA, USA 2014
Canadian Society of Ecology and Evolution, Montreal, QC, Canada, 2014
Invited Talk, Department of Zoology, Southern Illinois University, IL, USA, 2014
Invited Symposium Speaker, North American Ornithological Congress, University of British Columbia, Vancouver, BC, Canada, 2012
Invited Talk, Department of Biology, University of California, Riverside, CA, USA, 2012
Invited Symposium Speaker, Fairchild Symposium on Tropical Biology, Fairchild Botanical Gardens, Miami, FL, USA, 2012
Invited Symposium Speaker, Neotropical Ornithological Congress, Cuzco, Peru, 2011
Metro Vancouver Regional Parks: "Evolution of Song", Vancouver, BC, Canada, 2011
Invited Symposium Speaker, Mountain Ecology: Climate change and challenges in high-altitude ecosystems, Canadian Society of Ecology and Evolution, Banff, AB, Canada, 2011
Invited Talk, Biodiversity Research Centre, University of British Columbia, Vancouver, BC, Canada, 2010
Invited Talk, Les Ecologists, Simon Fraser University, Vancouver, BC, Canada, 2010
Andes Biodiversity & Ecosystem Research Group, Marathon, FL, USA, 2010
Invited Talk, Undergraduate Biology Course, Roosevelt University, Chicago, IL, USA 2010
American Ornithologists' Union/Cooper Ornithological Society/Society of Canadian Ornithologists, San Diego, CA, USA, 2010
Graduate Student Council Interdisciplinary Research Conference (Poster), University of Florida, Gainesville, FL, USA, 2010
Innovation through Institutional Integration (I3) NSF Research Day (Poster), University of Florida, Gainesville, FL, USA, 2009
Ecological Society of America, Albuquerque, NM, USA, 2009
Invited Talk, Evansville Birding Club, Evansville, IN, USA, 2009
Southeastern Ecology & Evolution Conference, Gainesville, FL, USA, 2009 (Runner-up Best Presentation)
Association for Tropical Biology and Conservation, Paramaribo, Suriname, 2008
Research Presentation for Middle School Students, Wayqecha Biological Station, Asociación Conservación Amazonica, Cusco, Peru, 2007 (*in Spanish*)
Invited Talk, Facultad de Biología, Universidad Nacional de San Antonio Abad & Asociación Conservación Amazonica, Cusco, Peru, 2006 (*in Spanish*)
School of Science Research Symposium (Poster), Purdue University, W. Lafayette, IN, USA, 2003
Midwest Ecology & Evolution Conference (Oral & Poster), University of Akron, OH, USA, 2003
Ecolunch, Department of Biological Sciences, Purdue University, W. Lafayette, IN, USA, 2002
Honor's Research Symposium (Poster), Department of Biological Sciences, Purdue University, W. Lafayette, IN, USA, 2002

CONTINUING EDUCATION ACTIVITIES

BRITE sponsored Structural Equation Modeling workshop (participant). University of British Columbia, Vancouver, BC. Meeting dates: April 2–5, 2012.
Modelling patterns and dynamics of species occurrence workshop (participant). Hyatt Regency, Vancouver, BC. Meeting dates: March 21–25, 2011.

RESEARCH EXPERIENCE

University of Florida, Gainesville, Florida

Ph.D. Dissertation: Patterns of avian diversity and elevational range limits in tropical montane landscapes, Manu National Park, Peru. Aug 2004 - July 2010

Ecologist: Mockingbird Recognition of Individual Humans, University of Florida, Gainesville, Florida Jan 2008 - Dec 2009

Ecologist: Caribbean Wintering Migrant Bird Census, U.S. Virgin Islands National Park, St. John Island, Virgin Islands Dec 2005 - Jan 2006

Purdue University, West Lafayette, Indiana

Master's Thesis: Distribution and abundance of montane avian species, and patterns of diversity in the Tilarán mountain range, Monteverde, Costa Rica. Aug 2002 - May 2004

Ecologist: Spruce-fir Bird Community Resilience to Invasion of Balsam Woolly Adelgid, Southern Appalachian Mountains, USA, May 2002 - 2009

Research Assistant: Radio telemetry, trapping and banding of Downy Woodpeckers (*Picoides pubescens*), Ross Biological Reserve, Indiana, Jan 2000 - May 2001

PROFESSIONAL SERVICE

Guest Lectures:

Fundamentals of Ecology, University of British Columbia, Fall 2013

Geography, Langara College, Fall 2013

Ornithology, University of British Columbia, Spring and Fall 2012, Fall 2013

Graduate Ecology, University of British Columbia, Spring 2012, Fall 2013

NSF I³ Lesson Development Program, Avian Biology Lecture, University of Florida, 2010

Non-majors Biology, Prof. Kenneth Hundreiser, Roosevelt University, 2010

Latin American Ornithology, Prof. Ursula Valdez, Cusco, Peru, 2007 (*in Spanish*)

Avian Biology, Prof. Douglas Levey, University of Florida, 2007-2010

General Ecology, Prof. Robert Holt, University of Florida, 2009

Conservation Biology, Prof. Kerry Rabenold, Purdue University, 2003

Reviewer: *African Zoology*, *Auk*, *Ornithological Advances*, *Biodiversity and Conservation*, *Biological Conservation*, *Biotropica*, *Condor*, *Diversity and Distributions*, *Ecography*, *Ecology*, *Ecology Letters*, *Evolution*, *Florida Field Naturalist*, *Functional Ecology*, *Journal of Avian Biology*, *Journal of Field Ornithology*, *National Science and Engineering Research Council Proposals*, *National Science Foundation Proposals*, *Nature*, *Oikos*, *PLoS ONE*, *Science*, *Trends in Ecology and Evolution*

Associate Editor: *Evolutionary Ecology* (March 2018 – present)

SERVICE TO UNIVERSITY

Biodiversity Research Postdoctoral search committee, Biodiversity Research Centre (09/2022 – 02/2023)

Graduate and Undergraduate student awards committee (2013)

Comparative Physiology faculty search committee, Department of Zoology (10/2012 – 01/2013)

Organized BLISS seminar series (2011-2012)

Werner and Hildegard Hesse Research Award in Ornithology committee (2011, 2012)

SERVICE TO COMMUNITY

Memberships in scholarly societies: American Ornithologists' Union (2005–2022); Animal Behavior Society (2005, 2009, 2010, 2012); Association of Field Ornithologists (2004, 2005, 2010, 2012–2022); Association for Tropical Biology and Conservation (2008, 2022); Canadian Society for Ecology and Evolution (2011, 2014); Cooper Ornithological Society (2010, 2012, 2014); Ecological Society of America (2009, 2014); Neotropical Ornithological Society (2010–2012); Sigma Xi (2004–2008); Wilson Ornithological Society (2010, 2012, 2014, 2018-2022)

Membership on other committees: Graduate and Undergraduate student awards committee (2013); Comparative Physiology faculty search committee, Department of Zoology (Oct 2012 – Jan 2013); Organized BLISS seminar series (2011–2012); Werner and Hildegard Hesse Research Award in Ornithology committee (2011, 2012)

Café Scientifique – Birds of Southern Peru - January 28, 2015: Evening social event and presentation to the general Vancouver public (~100 attendees) on research conducted in Manu National Park and surrounding areas, with the objective to bring the tropics to Vancouver. The presentation focused on how we study tropical bird communities and diversity in the Peruvian Andes and Amazon, including significant research findings and threats to biodiversity in the region. The presentation also included multimedia, with sound recordings to allow audience members to experience tropical environments at different elevations and videos to show some of the results from our research.

Voluntary book review – January - May, 2012: Provided a scientific critique for a published book by author Sharon Sorenson, *Birds in the Yard* month by month: What's there and why, and how to attract those that aren't. This book is written for a general US Midwest public as a guide to create and maintain a diverse urban/suburban/rural bird community by adapting back-yard habitats to benefit local resident and migratory bird species. I informally reviewed Sharon's book as she was writing each chapter, with a scientific eye for detail.

Rain City Chronicles – November 16, 2012: Participating speaker in live storytelling night for the general public in Vancouver. This event included a series of presentations and on-stage storytelling to a broad audience of ~100. Each participant shared a true story with the theme of "Animal Instincts", relating to the work we have done with animals or extraordinary animal encounters.

Evolution of Song project for the Vancouver general public – April 30, 2011: One-day workshop organized by me, David Toews, Metro Vancouver Regional Parks and the Beaty Biodiversity Museum and attended by ~20 Vancouver residents interested in the local bird community and scientific investigation of bird song. We demonstrated mist-netting, bird banding and measurements and presented ecological and evolutionary studies to show how song is examined.

LANGUAGES

Spanish (fluent)

PROFESSIONAL AFFILIATIONS

American Ornithologists' Union; Animal Behavior Society; Association of Field Ornithologists, Association for Tropical Biology and Conservation; Canadian Society for Ecology and Evolution; Cooper Ornithological Society, Ecological Society of America; Neotropical Ornithological Society, Sigma Xi, Wilson Ornithological Society