

Vitek Jirinec

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ACADEMIC TRAINING

Louisiana State University, Baton Rouge, *Louisiana*

2015 – 2021. PhD in Renewable Natural Resources, 4.2 GPA. Advisor: Dr. Philip Stouffer

College of William & Mary, Williamsburg, *Virginia*

2012 – 2015. MS in Biology, 3.7 GPA. Advisor: Dr. Matthias Leu

Humboldt State University, Arcata, *California*

2004 – 2010. BS in Wildlife, *cum laude*, 3.7 GPA. Advisors: Drs. Mark Colwell & Matthew Johnson

PUBLICATIONS

- Brunner, A.R., B.C. Dossman, **V. Jirinec**, K.L. Percy, C.M. Tonra, E.I. Johnson, P.P. Marra. 2022. Migratory behavior and connectivity revealed in a secretive Neotropical migratory songbird, the Swainson's Warbler. *Journal of Field Ornithology*.
- Luther, D.A., W.J. Cooper, **V. Jirinec**, J.D. Wolfe, C.L. Rutt, R.O. Bierregaard, T.E. Lovejoy, P.C. Stouffer. 2022. Long-term changes in avian biomass and functional diversity within disturbed and undisturbed Amazonian rainforest. *Proceedings of the Royal Society B*.
- Jirinec, V.**, E.C. Elizondo, P.F. Rodrigues, and P.C. Stouffer. 2022. Climate trends and behavior of a model Amazonian terrestrial insectivore, Black-faced Antthrush, indicate adjustment to hot and dry conditions. *Journal of Avian Biology*.
- Jirinec, V.**, P.F. Rodrigues, B. Amaral, and P.C. Stouffer. 2022. Light and temperature niches of ground-foraging Amazonian insectivorous birds. *Ecology*.
- Jirinec, V.**, R.C. Burner, B. Amaral, R.O. Bierregaard, G. Fernández-Arellano, A. Hernández-Palma, E.I. Johnson, T.E. Lovejoy, L.L. Powell, C.L. Rutt, J.D. Wolfe, and P.C. Stouffer. 2021. Morphological consequences of climate change for resident birds in intact Amazonian rainforest. *Science Advances*.
- Jirinec, V.**, P.F. Rodrigues, and B. Amaral. 2021. Adjustable leg harness for attaching tags to small- and medium-sized birds. *Journal of Field Ornithology*.
- Jirinec, V.**, C.J. Smith, A. Deverakonda, and M. Leu. 2021. Notes from Wood Thrush (*Hylocichla mustelina*) telemetry: Synchronous tail replacement in prebasic molt and single-male nest provisioning. *The Wilson Journal of Ornithology*.
- Stouffer, P.C., **V. Jirinec**, C.L. Rutt, R.O. Bierregaard, A. Hernández-Palma, E.I. Johnson, S.R. Midway, L.L. Powell, J.D. Wolfe, and T.E. Lovejoy. 2021. Long-term change in the avifauna of undisturbed Amazonian rainforest: Ground-foraging birds disappear and the baseline shifts. *Ecology Letters*.
- Rutt, C.L., **V. Jirinec**, M. Cohn-Haft, W.F. Laurance, and P.C. Stouffer. 2019. Avian ecological succession in the Amazon: A long-term case study following experimental deforestation. *Ecology and Evolution*.
- Rutt, C.L., S.R. Midway, **V. Jirinec**, J.D. Wolfe, P.C. Stouffer. 2019. Examining the microclimate hypothesis in Amazonian birds: indirect tests of the 'visual constraints' mechanism. *Oikos*.
- Jirinec, V.**, E.C. Elizondo, C.L. Rutt, and P.C. Stouffer. 2018. Space use, diurnal movement, and roosting of a Variegated Antpitta (*Grallaria varia*) in central Amazonia. *Ornitología Neotropical*.
- Rutt, C.L., **V. Jirinec**, E.I. Johnson, M. Cohn-Haft, C.F. Vargas, and P.C. Stouffer. 2017. Twenty years later: An update to the birds of the Biological Dynamics of Forest Fragments Project, Amazonas, Brazil. *Revista Brasileira de Ornitologia*.
- Jirinec, V.**, D.A. Cristol, and M. Leu. 2017. Songbird community varies with deer use in a fragmented landscape. *Landscape and Urban Planning*.
- Jirinec, V.**, R.E. Isdell, and M. Leu. 2016. Prey availability and habitat structure explain breeding space use of a migratory songbird. *The Condor*.
- Jirinec, V.**, C.P. Varian, C.J. Smith, and M. Leu. 2015. Mismatch between diurnal home ranges and roosting areas in the Wood Thrush (*Hylocichla mustelina*): Possible role of habitat and breeding stage. *The Auk*.
- Jirinec, V.**, C.L. Rutt, J.A. Kutylowski, A.X. Wang, C.R. Kohley, S.R. Wheeler, H.L. Mounce, and J. Jeffrey. 2013. A nest in Koa (*Acacia koa*) successfully fledged two 'Akiapōlā'au (*Hemignathus munroi*). *'Elepaio*.

Jirinec, V., B.R. Campos, and M.D. Johnson. 2011. Roosting behaviour of a migratory songbird on Jamaican coffee farms: Landscape composition may affect delivery of an ecosystem service. Cambridge University Press. *Bird Conservation International*.

GRANTS & FELLOWSHIPS

- Short-term Fellowship, Smithsonian Tropical Research Institute (2018, \$6,000)
- Research Grant, Wilson Ornithological Society (2018, \$1,000)
- Mewaldt-King Award, American Ornithological Society (2018, \$2,500)
- Lewis and Clark Fund Scholar, American Philosophical Society (2017, \$4,800)
- Research Grant, Animal Behavior Society (2017, \$1,500)
- Conservation Award, Neotropical Bird Club (2017, \$3,920)
- Mewaldt-King Award, Cooper Ornithological Society (2016, Honorable Mention)
- NASA Virginia Space Grant Consortium Graduate Research Fellowship (2014-2015, \$5,000)
- Bergstrom Memorial Research Award, Association of Field Ornithologists (2014, \$1,000)
- J. J. Murray Research Award, Virginia Society of Ornithology (2013, \$1,000)
- Bill Akers Graduate Student Grant, Coastal Virginia Wildlife Observatory (2013, \$500)
- Graduate Student Research Grant, Williamsburg Bird Club (2013, \$500)
- Arts & Sciences Graduate Research Grant, College of William & Mary (twice in 2013, \$600 total)
- Arts & Sciences OGSR/Graduate Student Association, College of William & Mary (2013, \$200)
- Lorene J. Harris Scholarship, Humboldt State University, 2009, (\$2,000)
- American Ornithologists' Union Conference Travel Grant, 2010, 2022
- Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Conference Travel & Lodging Grant, 2006, 2009, 2013

AWARDS & DISCTINCTIONS

- Ben and Pauline Stanley Graduate Student Excellence Award, 2019-2020, School of Renewable Natural Resources, Louisiana State University (\$500).
- Clark M. Hoffpauer Outstanding Graduate Student, 2017-2018, School of Renewable Natural Resources, Louisiana State University (\$1,000).
- Excellence in Scholarship in the Natural and Computational Sciences, 2014-2015, College of William and Mary (\$1,000). Top graduate award in sciences (MS/PhD) at W&M.
- Best Undergraduate Research Project, 2009-2010, Humboldt State University. Top undergraduate award in sciences at HSU.

EMPLOYMENT HISTORY (all full-time unless noted otherwise)

Associate Ecologist, Integral Ecology Research Center, Blue Lake, CA; Aug 2021 – *current*. Main duties include to analyze and publish several IERC datasets, including bobcats occurrence from GPS collars and camera traps. The current focus is to study the effects of trespass cannabis farming for the ecosystems on California's public lands. Supervisor: Dr. Greta Wengert, gwengert@ierceecology.org, 707-668-4030.

Graduate Research/Teaching Assistant, Louisiana State University, Baton Rouge, LA; Aug 2015 – Aug 2021. Analyzed data from a long-term banding effort at Brazil's Biological Dynamics of Forest Fragments Project (BDFFP). Initiated and managed two projects at LSU: Barred Owls space use using GPS tags and a tracking of Swainson's Warbler migration using geolocators. A TA for Ecology and Management of Louisiana Wildlife. Supervisor: Dr. Phil Stouffer, pstouffer@lsu.edu, 225-578-4221.

Graduate Research Assistant, College of William & Mary, Williamsburg, VA; Aug 2012 – May 2015. Analyzed local biodiversity data (birds, amphibians, butterflies) using GIS, R, SAS, Distance, and other software packages, hired and managed seasonal personnel, conducted fieldwork for long-term projects (avian and amphibian point counts), organized lab logistics, and mentored a student during his undergraduate thesis. Supervisor: Dr. Matthias Leu, mleu@wm.edu, 757-221-7497.

Seasonal Avian Biologist, Point Blue Conservation Science, Sierra Nevada, CA; May – Jul 2012. Surveyed birds using point counts across the southern Sierra Nevada as a part of Point Blue's Management Indicator Species (MIS) project.

- Avian Research Technician**, Texas Tech University, Department of Natural Resources; Jan – Apr 2012. Conducted point counts for grassland birds and monitored raptor flight paths prior to proposed wind turbine placement.
- Field Research Aide**, Institute of Arctic Biology, Arctic National Wildlife Refuge, AK; Jul – Aug 2011. Collected soil samples to quantify invertebrates, substrate chemistry, and microorganism diversity, and counted shorebirds at three river deltas. Lived in remote tundra camps, piloted Zodiac boats over the Arctic Ocean, and frequently dodged polar bears.
- Research Technician**, Maui Forest Bird Recovery Project, Hanawi NAR, HI; Feb – Jun 2011. Conducted nest searching and nest monitoring, banded and re-sighted individuals of federally endangered Maui Parrotbill, Crested Honeycreeper, and other birds. Helicopter drop-off to perform point counts along transects in remote, high-elevation areas of the Haleakala Volcano for Hawaii Forest Bird Surveys.
- Crew Leader**, Wildlife Conservation Society, Arctic Coastal Plain, AK; May – Jul 2010. Supervised a crew of two, coordinated field logistics and captured several shorebird species for blood, avian influenza, and feather sampling out of a remote tundra camp. Additionally, color-banded birds, attached geolocators to Dunlin, and collected invertebrate samples, water, and weather data.
- Crew Leader**, Wildlife Conservation Society, Prudhoe Bay, AK; May – Jul 2009. Supervised one crew member, organized field schedule and on-site logistics for shorebird nest monitoring while collaborating with oilfield security and British Petroleum environmental advisors. Searched for nests for subsequent monitoring, placed cameras on nests, collected goose samples for USFWS, conducted point counts for predators, and assessed lemming abundance.
- Intern**, NSF International Research Experiences for Students (IRES), Jamaica; Dec – Jan 2009. Captured and marked birds in and around coffee farms, radio-tracked Black-throated Blue Warblers for a habitat use and ecosystem services study and performed nocturnal surveys of roosting warblers for my honors thesis.
- Intern**, Redwood Sciences Laboratory, US Forest Service, Costa Rica; Sep – Dec 2008. Banded birds, counted migrations, surveyed vegetation, and collected fruit and insect samples; assisted with sea turtle surveys in Tortuguero National Park. Additionally, worked with the park on public outreach and established new survey sites.
- Field Assistant**, Oregon State University, Department of Forestry, OR; May – Aug 2008. Conducted point counts, nest-searching, nest-monitoring, and spot-mapping of passerines in forests of northwestern Oregon.
- Field Technician**, Humboldt State University, Department of Wildlife, CA; May – Dec 2006. Captured and marked small mammals to determine effects of grazing treatments on raptor density.
- Volunteer**, Humboldt Bay Bird Observatory, Arcata, CA; 2006 – 2010. Banded small birds and owls for population monitoring purposes, trained volunteers, and occasionally ran the station upon request by the station manager.
- Volunteer**, Humboldt State University, Arcata, CA; May 2006. Searched for nests, monitored, and re-sighted color-banded individuals of the federally threatened Snowy Plover on the beaches of Northern California.

CONFERENCE PRESENTATIONS (as the presenting author)

Microhabitat use of Amazonian terrestrial insectivores under changing climate

- talk, American Ornithological Society (2022), San Juan, Puerto Rico

Light and thermal niches of ground-foraging Amazonian insectivorous birds

- talk, Association for Tropical Biology and Conservation (2021), *virtual conference*

Morphological consequences of climate change for resident birds in intact Amazonia

- talk, American Ornithological Society (2021), *virtual conference*

Seasonal behavior of an Amazonian terrestrial insectivore suggests avoidance of conditions associated with changing climate

- talk, North American Ornithological Congress (2020), *virtual conference*

A sensitive avian specialist in Amazonia uses forest microclimate refugia during ambient extremes

- talk, Animal Behavior Society annual meeting (2020), *virtual conference*

Wood Thrush movements within the breeding season: Implications for “availability for survey” in bird counts

- talk, American Ornithological Society (2018), Tucson, AZ

Wood Thrush habitat associations and roosting ecology on the breeding grounds (MS thesis)

- talk, NASA Langley Research Center (2015), Hampton, VA
- talk, AOU/COS/SCO (2014) joint meeting, Estes Park, CO
- talk, Virginia Society of Ornithology (2014) annual meeting, Chesapeake, VA

Does white-tailed deer (*Odocoileus virginianus*) browsing affect forest songbird communities?

- poster, Ecological Society of America (2014) annual meeting, Sacramento, CA
- talk, Wilson Ornithological Society Annual Conference (2013), Williamsburg, VA
- poster, The Wildlife Society National Conference (2013), Milwaukee, WI

Roosting behavior of a migratory songbird on Jamaican coffee farms: Landscape composition may affect delivery of an ecosystem service

- poster, American Ornithologists’ Union national meeting (2010), San Diego, CA
- poster, The Wildlife Society national meeting (2009), Monterrey, CA
- talk, North Coast Chapter of The Wildlife Society meeting (2009), Arcata, CA

INVITED SEMINARS AND PRESENTATIONS

The adventitious value of long-term banding: Examples from Amazonia

- End of season gathering (October 2022). Humboldt Bay Bird Observatory, Arcata, CA

Responses of Amazonian avifauna to climate change

- Departmental seminar; EcoSeries (October 2022). Cal Poly Humboldt, Arcata, CA

Responses of Amazonian avifauna to a shifting environment

- Seminar for Peter Marra and his research group via Zoom (April 2022). Georgetown University, Washington, D.C.

Responses of Amazonian avifauna to a shifting environment

- Departmental seminar; Biology Seminar Series (April 2022). College of William & Mary, Williamsburg, VA

Birds of "intact" forest at the BDFFP: Examining the past and predicting the future

- Seminar for the Instituto Nacional de Pesquisas da Amazônia (September 2019). Manaus, Brazil.

Wood Thrush movement and habitat use in Virginia

- Evening talk for the Baton Rouge Audubon Society (February 2019). Baton Rouge, LA

Nighttime whereabouts of songbirds: A case study in Jamaica and eastern U.S.

- Seminar for the LSU Museum of Natural Science (Spring 2016). Louisiana State University, Baton Rouge, LA

Habitat use of the declining Wood Thrush in coastal Virginia

- Departmental seminar for the School of Renewable Natural Resources (Fall 2015). Louisiana State University, Baton Rouge, LA

Bird distribution across the landscape: It’s a can of worms

- Graduate Studies Advisory Board (Fall 2014) meeting. Dinner talk in the Great Hall of the Wren Building. College of William & Mary, Williamsburg, VA

Deer browsing correlates with songbird community change: Evidence from surveys in coastal Virginia and the Shenandoah Valley

- Eastern Shore Chapter – Virginia Master Naturalists (2014) annual meeting. Eastern Shore Community College, Melfa, VA

TRAVELOGUES

- Long-term ecological research in central Amazonia (with C. Rutt; LSUMNS)
- Aloha birds: A season with Hawaii’s native honeycreepers (Klamath Bird Observatory)
- Nature diaries: A personal narrative of a journey through Latin America (HSU)
- Jah love is like a burning fire: An overview of a Jamaican experience (HSU)
- Behind the Arctic Circle: Nest monitoring on Alaska’s North Slope (HSU)

- Pura vida: Bird banding in Caribbean Costa Rica (HSU)
- Far north: Working with shorebirds in Alaska's remote arctic (HSU)

CERTIFICATIONS & SOCIETY MEMBERSHIPS

- North American Banding Council (NABC) Bander certification (2011)
- American Academy of Underwater Sciences (AAUS) Scientific Diver
- reviewed for: Global Ecology and Biogeography, Journal of Field Ornithology, Wilson Journal of Ornithology, Bird Conservation International, Forest Ecology and Management, Biotropica, Journal of Avian Biology, Southeastern Naturalist, Scientific Reports
- member: American Ornithological Society (current), Wilson Ornithological Society (current), Virginia Society of Ornithology (past), The Wildlife Society (past), Association of Field Ornithologists (current)

UNIVERSITY LEADERSHIP

- president, Student Naturalist Club, HSU (2008, 2009)
- activities coordinator, Student Chapter of The Wildlife Society, HSU (2009)
- vice-president, Global Connections Club, HSU (2006)
- student member, International Resources Committee, HSU (2005)

RESEARCH IN POPULAR PRESS & BLOGS

- [NPR](#), [The Guardian](#), [Mongabay](#), [BBC](#), [WIRED](#), [Phys.org \(birds\)](#), [Phys.org \(deer\)](#), [AOS Blog](#), [Coffee & Conservation](#), [Ibis Blog](#), [The Wildlife Society](#)