

**John D. Lloyd, Ph. D.**  
South Strafford, VT

Phone: (971) 645-5463  
email: 5355693@gmail.com

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**Appointments**

**Adjunct Associate Professor**, Rubenstein School of Environment and Natural Resources, University of Vermont, Burlington, Vermont.

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**Academic background**

Ph.D., Wildlife Biology, University of Montana, Missoula, MT 59812 (May 2003).

M.S., Wildlife Biology, University of Arizona, Tucson, AZ 85721 (April 1997).

B.S., Wildlife Biology, University of Vermont, Burlington, VT 05405 *Magna cum Laude* (May 1995).

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**Social media**

ResearchGate: [https://www.researchgate.net/profile/John\\_Lloyd2](https://www.researchgate.net/profile/John_Lloyd2)

Google Scholar: <https://scholar.google.com/citations?user=pFD-t50AAAAJ&hl=en&oi=sra>

LinkedIn: <https://www.linkedin.com/in/john-lloyd-12069990>

Twitter: @jdlvt

ORCID: [orcid.org/0000-0002-9143-3789](https://orcid.org/0000-0002-9143-3789)

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**Current position**

**Associate Director for Science and Evaluation**, American Wind Wildlife Institute, Washington, D.C. March 2019 – present.

As the Associate Director for Science and Evaluation, I work to identify, to catalyze, and to carry out research on high-priority questions that supports the timely and responsible development of wind energy while protecting wildlife and wildlife habitat. I lead our organization's program on research and conservation of North American prairie grouse; provide scientific oversight for our technology-development program and for our research programs on the assessment and mitigation of wind energy's risks to bats and eagles; work as a scientific program officer and peer-review manager on the Wind Wildlife Research Fund; and serve as the science lead on a portfolio of research projects funded through the Wind Wildlife Research Fund. I also assist the Director of Science in updating the National Wind Wildlife Research Plan. I serve as the scientific lead on outreach and communication efforts to a variety of stakeholders through annual updates to the Summary of Wind Power Interactions with Wildlife factsheets, technical white papers, peer-reviewed publications, and presentations at scientific conferences.

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**Past employment**

**Associate Director (Science)**, Vermont Center for Ecostudies, Norwich, VT. October 2014 – March 2019.

As the chief scientist, I identified organization-wide research priorities that meet the goal of *uniting people and science for conservation*. I assisted senior scientists, program directors, and post-doctoral associates in developing projects that address these priorities and work with development staff to obtain funding. I ensured that our science was rigorous and mission-driven; that we were effectively communicating our science with the right people, in the right way, and at the right time; and that our engagement with citizen-scientists, decision-makers, and other stakeholders was positive, creative, and beneficial to all involved. Above all, I focused on creating approaches to research that bridged the science-policy divide and lead to the adoption of scientifically defensible conservation policy.

**Senior Research Ecologist**, Ecostudies Institute, Mt. Vernon, WA. Oct 2005-Oct 2014.

**Biologist and Project Manager**, Mason, Bruce & Girard, Inc., Portland, Oregon. Jun 2004-Oct 2005.

**Writer/Editor**, USDA Forest Service. 2003-2004.

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**Graduate courses taught, past 5 years**

**Conservation Biology** (Environmental Studies 563), Antioch University New England, Keene, NH. Fall 2016.

**Biostatistics** (Environmental Studies 519), Antioch University New England, Keene, NH. Fall 2012 & Fall 2013.

**Research Strategy, Method, and Design I** (Environmental Studies 727), Antioch University New England, Keene, NH. Fall 2013.

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## Peer-reviewed articles

- Lloyd, J.D., C.C. Rimmer, and JA Salguero-Faria. 2019. Short-term effects of hurricanes Maria and Irma on forest birds of Puerto Rico. *PLoS ONE* 14:e0214432.
- Faccio, S.D., K.L. Buckman, J.D. Lloyd, A.N. Curtis, and V.F. Taylor. 2019. Bioaccumulation of methylmercury in wood frogs and spotted salamanders in Vermont vernal pools. *Ecotoxicology*. In press. DOI: 10.1007/s10646-019-02068-4.
- Rimmer, C. C., J. D. Lloyd, K. P. McFarland, D. C. Evers, and O. Lane. 2019. Patterns of blood mercury variation in two long-distance migratory thrushes on Mount Mansfield, Vermont. *Ecotoxicology*. In press.
- Rimmer, C. C., J. D. Lloyd, and J. A. Salguero Faria. 2019. Overwintering Bicknell's Thrush (*Catharus bicknelli*) on Puerto Rico – rare and local. *Caribbean Journal of Ornithology*. In press.
- Lloyd, J.D. 2018. The recent expansion of Fox Sparrow (*Passerella iliaca iliaca*) breeding range into the northeastern United States. *PeerJ* 6: e6087.
- Dornelas, M., et al. 2018. BioTIME: a database of biodiversity time series for the Anthropocene. *Global Ecology and Biogeography* 27:760-786. DOI: 10.1111/geb.12729
- McFarland, K. P., J. D. Lloyd, S. J. K. Frey, P. L. Johnson, R. B. Chandler, and C. C. Rimmer. 2018. Modeling spatial variation in winter abundance to direct conservation actions for a vulnerable migratory songbird, Bicknell's Thrush (*Catharus bicknelli*). *Condor* 120:517-529.
- Lloyd, J. D., and C. C. Rimmer. 2017. Surveys of forest birds on Puerto Rico, 2015. *Biodiversity Data Journal* 5:e20745. <https://doi.org/10.3897/BDJ.e20745>
- Rimmer, C.C., P.L. Johnson, and J. D. Lloyd. 2017. Home range size and nocturnal roost locations of Western Chat-Tanagers (*Calyptophilus tertius*). *Wilson Journal of Ornithology* 129:611-615.
- Hill, J. M., and J. D. Lloyd. 2017. A fine-scale U.S. population estimate of a montane spruce-fir bird species of conservation concern. *Ecosphere* 8(8):e01921. 10.1002/ecs2.1921
- Lloyd, J.D, J. Scarl, J.C. Martínez-Sánchez, C.C. Rimmer, L. Prout, and S. Mathison. 2017. Bicknell's Thrush Mitigation Across Borders: A Strategy for Full Life-Cycle Conservation. <https://doi.org/10.6084/m9.figshare.4775680.v1>
- Lloyd, J. D. 2017. Movements and use of space by Mangrove Cuckoos (*Coccyzus minor*) in Florida, USA. *PeerJ* 5:e3534. [10.7717/peerj.3534](https://doi.org/10.7717/peerj.3534)
- McFarland, K.P., J.D. Lloyd, and S.P. Hardy. 2017. Density and habitat relationships of the endemic White Mountain Fritillary (*Boloria chariclea montinus*)(Lepidoptera: Nymphalidae). *Insects* 8, 57. doi:[10.3390/insects8020057](https://doi.org/10.3390/insects8020057)
- Frieze, R.D., and J. D. Lloyd. 2017. Eye-ring coloration is not a reliable indicator for aging Mangrove Cuckoos (*Coccyzus minor*). *Wilson Journal of Ornithology* 129:163-165.
- Lloyd, J.D. 2016. Phenotypic variation in Mangrove Cuckoo (*Coccyzus minor*) across its geographic range. *PLoS ONE* 11(3): e0152141. doi:10.1371/journal.pone.0152141.
- Lloyd, J. D., C. C. Rimmer, and K. P. McFarland. 2016. Assessing conservation status of resident and migrant birds on Hispaniola with mist-netting. *PeerJ* 3:e1541 <https://doi.org/10.7717/peerj.1541>
- Lloyd, J. D., and G. L. Slater. 2014. Abundance and distribution of mangrove landbirds in Florida. *North American Fauna* 80:1-45.
- Lloyd, J., and M. Trask. 2014. Interstate 84 Wildlife Crossing Study. Available at: <https://doi.org/10.6084/m9.figshare.978988.v1>
- Lloyd, J. D. 2013. Mangrove Cuckoo (*Coccyzus minor*), *Neotropical Birds Online* (T. S. Schulenberg, Editor). Ithaca: Cornell Lab of Ornithology; retrieved from *Neotropical Birds Online*: [http://neotropical.birds.cornell.edu/portal/species/overview?p\\_p\\_spp=202776](http://neotropical.birds.cornell.edu/portal/species/overview?p_p_spp=202776)
- Slater, G. L., J. D. Lloyd, and R. W. Snow. 2013. Re-introduction of brown-headed nuthatch and eastern bluebird to South Florida pine rocklands, USA. Pages 63-67 in P. S. Soorae, ed. *Global Reintroduction Perspectives 2013*. IUCN/SSC, Gland, Switzerland.
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**Peer-reviewed  
articles, cont.**

- Slater, G. L., J. D. Lloyd, J. H. Withgott, and K. G. Smith. 2013. Brown-headed Nuthatch (*Sitta pusilla*), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology. <http://bna.birds.cornell.edu/bna/species/349>
- Faccio, S. D., M. Amaral, C. J. Martin, A. Tur, and J. D. Lloyd. 2013. Movement patterns, natal dispersal, and survival of Peregrine Falcons banded in New England. *Journal of Raptor Research* 47:246-261.
- Lloyd, J. D., G. L. Slater, and J. R. Snyder. 2012. The role of fire-return interval and season of burn on snag dynamics in a south Florida slash-pine forest. *Fire Ecology* 8:18-31. doi: 10.4996/fireecology.0803018
- Lloyd, J. D., and G. L. Slater. 2012. Fire history and the structure of pine-rockland bird assemblages. *Natural Areas Journal* 32: 247-259.
- Lloyd, J. D. and G. L. Slater. 2011. Influence of fire and water regimes on pineland bird assemblages. *Natural Areas Journal* 31:270-282.
- Lloyd, J. D., and T. Doyle. 2011. Abundance and population trends of mangrove landbirds in southwest Florida. *Journal of Field Ornithology* 82:132-139.
- Lloyd, J. D., and G. L. Slater. 2011. Abundance and distribution of breeding birds in the pine forests of Grand Bahama, Bahamas. *Journal of Caribbean Ornithology* 24: 1-9.
- Lloyd, J.D., G. L. Slater, and S. Snow. 2009. Demography of reintroduced Eastern bluebirds and brown-headed nuthatches. *Journal of Wildlife Management* 73:955-964.
- Lloyd, J. D., and G. L. Slater. 2007. Environmental factors affecting productivity of brown-headed nuthatches. *Journal of Wildlife Management* 71:1968-1975.
- Lloyd, J. D. and J. J. Tewksbury. 2007. Analyzing avian nest survival in forests and grasslands: a comparison of the Mayfield and logistic-exposure methods. *Studies in Avian Biology* 34:96-104.
- Tewksbury, J. J., L. Garner, S. Garner, J. D. Lloyd, V. Saab, and T. E. Martin. 2006. Alternative hypotheses of landscape influence on nest predation and brood parasitism in fragmented ecosystems. *Ecology* 87:759-768.
- Lloyd, J. D., and T. E. Martin. 2005. Reproductive success of Chestnut-collared Longspurs in native and exotic grassland. *Condor* 107:365-376.
- Lloyd, J. D., and T. E. Martin. 2004. Nest-site preference and maternal effects on offspring growth. *Behavioral Ecology* 15:816-823.
- Lloyd, J. D., and T. E. Martin. 2003. Sibling competition and the evolution of developmental rates. *Proceedings of the Royal Society of London, Series B* 270:735-740. (cover article)
- Tewksbury, J. J., and J. D. Lloyd. 2001. Positive interactions under nurse plants: spatial scale, stress gradients, and benefactor quality. *Oecologia* 127:425-434.
- Lloyd, J.D., R.W. Mannan, S. DeStefano, and C. Kirkpatrick. 1998. The effects of mesquite invasion on a southeastern Arizona grassland bird community. *Wilson Bulletin* 110:403-408.

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**Published data  
sets**

- Lloyd, J.D. 2015. Mangrove Cuckoo measurements. figshare. <https://doi.org/10.6084/m9.figshare.1328170.v3>.
- Lloyd, J, and G. Slater. 2015. Mangrove Landbird Survey Data 2008-2011. figshare. <https://doi.org/10.6084/m9.figshare.1142567.v2>
- Rimmer, C., and J. Lloyd. 2015. Puerto Rico Bicknell's Thrush Surveys, 2014. KNB Data Repository. doi:10.5063/F1ST7MRT.
- Lloyd, J., K. McFarland, C. Rimmer, and Vermont Center for Ecostudies. 2015. Sierra de Bahoruco Constant-effort Mist Netting. KNB Data Repository. doi:10.5063/F1M906K7.

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**Selected  
honors and  
award**

- 2017 Elective Member, American Ornithological Society
- 2007 Robertson Fellowship Award, Florida Ornithological Society.
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2002 George Miksch Sutton Award in Conservation Research, Southwestern Association of Naturalists.

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## Invited presentations

2017 *Opportunities for conservation of Bicknell's Thrush in Maine's commercial forests.* New England Society of Foresters/Maine Chapter of The Wildlife Society Annual Meeting, Bangor, Maine.

2013 *The structure, derivation, and origin of South Florida's mangrove avifauna,* St. George's University, Grenada.

2013 *Abundance and distribution of mangrove landbirds.* Biscayne Science Symposium, Miami, FL.

2009 *Mountain Birdwatch: developing a coordinated monitoring program for high-elevation birds in the Atlantic Northern Forest.* Ecology and Management of High-elevation Forests in the Central and Southern Appalachians. Snowshoe, West Virginia.

2005 *Analyzing avian nest survival in forests and grasslands: a comparison of the Mayfield and logistic-exposure methods.* Cooper Ornithological Society Symposium: Beyond Mayfield: measurements of nest survival data. Cooper Ornithological Society, Arcata, CA.

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## Conference presentations

2019 *Expanding availability of confidential data to evaluate bird and bat collision risk.* Conference on Wind Energy and Wildlife Impacts. Stirling, Scotland, UK.

2018 *Recent range expansion by Fox Sparrows in the northeastern United States.* American Ornithological Society, Tucson, AZ.

2016 *Patterns of seasonal movements and space use among Mangrove Cuckoos.* North American Ornithological Conference, Washington, D.C.

2015 *Constant-effort mist netting over 15 years in Dominican Republic cloud forest reveals apparently stable bird populations.* BirdsCaribbean International Meeting, Kingston, Jamaica.

2011 *Structure and composition of a mangrove avifauna.* American Ornithologists' Union, Jacksonville, FL.

2010 *Mitochondrial DNA variation in the Brown-headed Nuthatch (Sitta pusilla): evidence for a distinct evolutionary lineage (S.p. insularis) on Grand Bahama Island.* Joint Meeting of the Cooper Ornithological Society, American Ornithologists' Union, and the Society of Canadian Ornithologists. San Diego, California.

2008 *Impacts of exotic plants on native fauna.* Natural Areas Association, Nashville, Tennessee.

2007 *Landbird communities of Grand Bahama Island, revisited.* Society for the Conservation and Study of Caribbean Birds, San Juan, Puerto Rico.

2006 *Environmental effects on fitness in a reintroduced population of Brown-headed Nuthatches.* North American Ornithological Conference, Veracruz, Mexico.

2005 *Effects of highways on birds: a North American review.* International Conference of Ecology and Transportation, San Diego, CA.

2005 *Wildlife hot spots along highways in northwestern Oregon.* International Conference of Ecology and Transportation, San Diego, CA. (With Melinda Trask, ODOT).

2005 *A rapid assessment process for determining potential linkages areas for fish and wildlife along highways.* The Wildlife Society – Oregon Chapter Annual Meeting, Symposium on Transportation and Passage Issues, Corvallis, OR.

2003 *A rapid assessment protocol for determining potential fish and wildlife habitat linkages along roads.* International Conference of Ecology and Transportation, Lake Placid, NY.

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## Professional service

**Chair,** International Bicknell's Thrush Conservation Group, Nov. 2014 – Mar. 2019

**Topic Editor** (Conservation Biology and Environmental and Natural Resources Management), *Encyclopedia of the Earth.*

**Associate Editor,** *Natural Areas Journal,* Nov. 2012 – Jan. 2015

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**Expert reviewer**, Mangrove Cuckoo Climate Change Vulnerability Assessment

**Peer reviewer**, Biological Status Review of White-crowned Pigeon (Florida Fish and Wildlife Conservation Commission)

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**Competitive grants awarded**

- 2017 US Fish and Wildlife Service Neotropical Migratory Bird Conservation Act (\$79,530). Conservation planning for Sierra de Bahoruco National Park.
- 2017 National Fish and Wildlife Foundation (\$50,609). Use of Maine's commercial forestland as habitat for Bicknell's Thrush, an imperiled songbird.
- 2017 William P Wharton Trust (\$10,971). Long-term demographic changes in Bicknell's Thrush, a rare montane endemic.
- 2016 Blake-Nuttall Fund (\$4,500). Long-term demographic changes in Bicknell's Thrush, a rare montane endemic.
- 2015 National Fish and Wildlife Foundation (\$78,588). Mapping abundance and estimating population size of Bicknell's Thrush, a rare montane endemic.
- 2013 US Fish and Wildlife Service (\$120,000). Ecology and population monitoring of Mangrove Cuckoo and other mangrove landbirds in south Florida's National Wildlife Refuges.
- 2012 Disney Wildlife Conservation Fund (\$20,000). Ecology and seasonal movements of Mangrove Cuckoo.
- 2012 US Fish and Wildlife Service (\$58,000). Ecology and population monitoring of Mangrove Cuckoo and other mangrove landbirds in south Florida's National Wildlife Refuges.
- 2011 Disney Wildlife Conservation Fund (\$20,000). Ecology and seasonal movements of Mangrove Cuckoo.
- 2010 US Fish and Wildlife Service (\$97,000). Ecology and population monitoring of Mangrove Cuckoo and other mangrove landbirds in south Florida's National Wildlife Refuges.
- 2008 US Fish and Wildlife Service (\$250,000). Development and implementation of a mangrove forest bird monitoring program.
- 2007 Florida Fish and Wildlife Conservation Commission (\$75,000). Abundance, distribution, and habitat requirements of mangrove landbirds.
- 2006 National Geographic Society, Committee for Research and Exploration (\$20,000). Taxonomy, population size, and conservation of Brown-headed Nuthatch.
- 2006 Oregon Department of Transportation (\$74,630). Developing methods for identifying wildlife crossing areas in long highway segments.
- 2005 Oregon Department of Transportation (\$42,000). An analysis of potential wildlife corridors.
- 2005 Joint Fire Sciences Program (\$261,315). Effects of fuel treatments and wildfire on the avifauna of the pine rockland ecosystem in southern Florida. Co-PI: Gary L. Slater, Ecostudies Institute.
- 2003 U.S.D.A Forest Service (\$10,500). Development of a rapid assessment protocol for identifying critical habitat linkages.
- 2000 U.S. Fish and Wildlife Service Challenge Cost Share Grant (\$10,000). Defining habitat quality for grassland birds in the northern Great Plains.

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**Prior appointments**

**Adjunct Faculty**, Environmental Studies Department, Antioch University New England, Keene, NH. September 2015 – December 2015 (fixed term).

**Affiliate Faculty**, Environmental Studies Department, Antioch University New England, Keene, NH. July 2012 – December 2013.

**Visiting Assistant Professor**, Department of Biology, Middlebury College, Middlebury, VT. Winter 2013.

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**Community  
service**

**Deputy Fire Chief/EMT**, Strafford Volunteer Fire/Rescue  
**Past President**, Strafford Firemen's Association, Inc.

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