



Leilton Willians Luna

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EDUCATION AND APPOINTMENTS

2024 – present	Postdoc	Duke University	(with Dr. Sara Lipshutz)
2022 – 2024	Postdoc	Penn State University	(with Dr. Julian Avery and Dr. David Toews)
2019 – 2020	Visitor	University of Michigan	(with Dr. Lacey Knowles)
2017 – 2021	PhD.	Federal University of Pará	(with Dr. Alexandre Aleixo)
2015 – 2017	MSc.	Federal University of Pará	(with Dr. Péricles Rêgo)
2011 – 2015	BSc.	Federal University of Pará	(with Dr. Péricles Rêgo)

PUBLICATIONS

Published (Google Scholar Profile: <https://rb.gy/wlolo>)

- [15] Silva FE, **Luna LW**, Batista R, Röhe F, Gubili C, Farias IP, Hrbek T, Amaral JV, Ribas CC, McDevitt AD, Dellicour S, Flot JF, Boubli JP (2024) The role of Quaternary Amazonian River dynamics on patterns and process of diversification in uakari monkeys (genus *Cacajao*). *Journal of Biogeography*, *in press*.
- [14] **Luna LW**, Williams LM, Duren K, Tyl R, Toews DPL, Avery JD (2023) Whole genome assessment of a declining game bird reveals cryptic genetic structure and insights for population management. *Molecular Ecology*, 32(20), 5498-5513.
- [13] Paulo P, Teófilo FH, Bertuol C, Polo É, Moncrieff AE, Bandeira LN, Nuñez-Penichet C, Fernandes IY, Bosholn M, Machado AF, **Luna LW**, Peçanha WT, Rampini AP, Hashimoto S, Dias C, Araripe J, Aleixo A, do Rêgo PS, Hrbek T, Farias IP, Peterson AT, Kaefer IL, Anciães M (2023) Geographic drivers of genetic and plumage color diversity in the Blue-crowned Manakin. *Evolutionary Biology*, 50,413-431.
- [12] Williams JW, Taylor A, Tolley KA, Provete DB, Correia R, Guedes TB, Farooq H, Li Q, Pinheiro HT, Liz AV, **Luna LW**, Matthews TJ, Palmeirim AF, Puglielli G, Rivadeneira MM, Robin VV, Schrader J, Shestakova TA, Tukiainen H, von der Heyden S, Zizka A (2023) Shifts to open access with high article processing charges hinder research equity and careers. *Journal of Biogeography*, 50(9), 1485.1489.
- [11] **Luna LW**, Naka LN, Knowles LL, Sawakuchi AO, Aleixo A, Ribas CC (2023) Late Pleistocene landscape changes and habitat specialization as promoters of population genomic divergence in Amazonian floodplain birds. *Molecular Ecology*, 32(1), 214-228.
- [10] **Luna LW**, Silva SM, Silva WAG, Gaiotti MG, Macedo RH, Araripe J & Rêgo PS (2022) Genetic monitoring of the Critically Endangered Araripe Manakin reveals low diversity and effective population size decline. *Ornithological Applications*, 124(2), duac009.
- [9] **Luna LW**, Dias C, Pichorim M, Leandro-Silva V, Biancalana RN, Silva WAG, Araripe J & Rêgo PS (2022) Historical climate change has driven population range expansion and differentiation in a rare and partially migratory Neotropical bird. *Journal of Ornithology*, 163, 495-507.

- [8] Souza TO, **Luna LW**, Araripe J, Silva WAG, Rêgo PS (2022) Peripheral isolation and demographic stability are reflected in the genetic diversity of the population of the Helmeted Manakin: A bird endemic to the gallery forests. *Annals of the Brazilian Academy of Sciences*, 94(4): e20201206.
- [7] Barbosa WES, Ferreira M, Schultz ED, **Luna LW**, Laranjeiras TO, Aleixo A & Ribas CC (2021) Habitat association constrains population history in two sympatric ovenbirds along Amazonian floodplains. *Journal of Biogeography*, 49(9), 1683-1695.
- [6] **Luna LW**, Ribas CC & Aleixo A (2021) Genomic differentiation with gene flow in a widespread Amazonian floodplain-specialist bird species. *Journal of Biogeography*, 49(9), 1670-1682.
- [5] Souza TO, **Luna LW**, Araripe J, Melo MAD, Silva WAG, Schneider H, Sampaio I & Rêgo PS (2019) Characterization of the genetic diversity and population structure of the manakin genus *Antilophia* through the development and analysis of microsatellite markers. *Journal of Ornithology*, 160: 825-830.
- [4] Amaral FR, Maldonado-Coelho M, Aleixo A, **Luna LW**, Rêgo PS, Araripe J, Souza TO, Silva WAG & Thom G (2018) Recent chapters of Neotropical history overlooked in phylogeography: Shallow divergence explains phenotype and genotype uncoupling in *Antilophia* manakins. *Molecular Ecology*, 27:4108-4120.
- [3] **Luna LW**, Silva WAG, Araripe J, Pereira ITF, D’Horta FM, Sampaio I, Schneider H & Rêgo, PS (2018) Mutations in the melanocortin-1 receptor (MC1R) gene have no influence on the distinct patterns of melanic plumage found in the manakins of the genus *Antilophia* (Aves: Pipridae). *Annals of the Brazilian Academy of Sciences*, 90: 2873-2879.
- [2] **Luna LW**, Souza TO, Carneiro LS, Silva WAG, Schneider H, Sampaio I, Araripe J & Rêgo PS (2017) Molecular data and distribution dynamics indicate a recent and incomplete separation of manakin species of the genus *Antilophia* (Aves: Pipridae) in response to Holocene climate change. *Journal of Avian Biology*, 48:1177-1188.
- [1] **Luna LW**, Souza TO, Silva WAG, Schneider H, Sampaio I, Araripe J & Rêgo PS (2017) Genetic variation of the endangered Araripe Manakin (*Antilophia bokermanni*) indicates a history of demographic decline. *Ornithology Research*, 25:60-66.

Forthcoming publications:

Lucas, LAS, Pil MW, **Luna LW**, Laranjeiras TO, Brumfield RT & Naka LL. Evolutionary history and species limits of the troupials (*Icterus icterus* species complex), with the description of a new species from the Roraima-Rupununi savannas.

Luna LW, Ribas CC, Aleixo A. Habitat-specific dispersal predicts spatial genetic variation in the Amazon floodplain bird community.

AWARDS AND HONORS

2023	BioOne Ambassador Award	Excellence in Science Communication.
2019	Best Poster Presentation	Amazonian Zoology Symposium
2017	Brazilian Ornithological Society	Conference, Best Student Talk

SCHOLARSHIPS & GRANTS

Starting 2024	USD\$ 421,322	National Park Service – Co-PI in Research Grant, <i>U.S. Department of the Interior, Inventory and Monitoring Division, USA</i>
Starting 2024	R\$ 162,000.00	Universal Program – Research Grant, <i>CNPq Foundation, Brazil</i>
2022 - present	USD\$ 54,000	Postdoctoral Scholarship – Pennsylvania State University, USA
2021 - 2023	R\$ 42,000 / year	Technological Development Program Fellowship – <i>CNPq Foundation, National Institute for Amazonian Research, Brazil</i>
2017 - 2021	R\$ 26,000 / year	Doctoral Fellowship (CAPES Foundation, Brazil)

2019 - 2020	USD\$ 30,000	Scholarship Exchange Program (University of Michigan, USA) – CAPES Foundation, Brazil
2015 - 2018	R\$ 50,000	Universal Program – Research Grant, CNPq Foundation, Brazil
2015 - 2017	R\$ 20,000 / year	Master's Fellowship – Federal University of Pará, CAPES Foundation, Brazil
2012 - 2014	R\$ 4,800 / year	Undergraduate Research Grants – CNPq and CAPES Foundation, Brazil

CONFERENCE & INVITED PRESENTATIONS

Talks:

07.2024	3 rd Joint Congress on Evolutionary Biology – Montreal, QC, Canada	Invited talk
09.2023	Northeast Upland Game Bird Technical Committee – Beckley, WV, USA	Invited talk
04.2023	79 th Annual Northeast Fish & Wildlife Conference – Harrisburg, PA, USA	Conf. talk
04.2022	Research in Progress Seminar, East Carolina University, NC, USA	Invited talk
05.2020	4 th Conference on Zoology, University of Pernambuco – Recife, PE, Brazil	Invited talk
07.2018	25 th Brazilian Ornithological Conference – João Pessoa, PB, Brazil	Invited talk
05.2015	10 th Neotropical Ornithological Conference – Manaus, AM, Brazil	Conf. talk
04.2013	59 th Brazilian Conference of Genetics – São Paulo, SP, Brazil	Conf. talk*

*Best presentation award

Posters:

10.2023	GEO BON Global Conference – Montreal, QC Canada
08.2023	MidWest Population Genetics Meeting – Ann Arbor, MI, USA
07.2019	23rd Brazilian Meeting of Ichthyology – Belém, PA, Brazil
07.2018	25th Brazilian Ornithological Conference – João Pessoa, Brazil
06.2016	23rd Brazilian Ornithological Conference – Pirenópolis, Brazil
06.2012	29th Brazilian Zoological Conference – Salvador, Brazil

TEACHING EXPERIENCE

Instructor in graduate level courses:

2021	Statistical Phylogeography – graduate level course, Emilio Goeldi Museum, Brazil
2021	Phylogeography of South America Biodiversity - graduate level course, Federal University of Pará
2018	Bioinformatics – graduate level course, Emilio Goeldi Museum, Brazil

Instructor in undergraduate level courses:

2018	Biogeography – undergraduate level course, Federal University of Pará, Brazil
2017	Conservation Genetics – undergraduate level course, Federal University of Pará, Brazil
2016	Molecular Biology – undergraduate level course, Federal University of Pará, Brazil
2016	Ornithology - undergraduate level course, Federal University of Pará, Brazil

Instructor in mid and high school classes:

2014	Biology – “Science Popularization Program” for the Apurinã people, Caratateua School, Bragança, Brazil
2012 - 2013	Biology – Padre Luiz Gonzaga School, Bragança, Brazil

Invited Lectures:

2023	Conservation Biology – undergraduate level course, Penn State University
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2021	Biogeography of Amazonian Ecosystems – graduate level course, National Institute for Amazonian Research (INPA), Brazil
2021	Conservation Genetics – graduate level course, Federal University of Minas Gerais, Brazil
2019	Evolution - undergraduate level course, Federal University of Pará, Brazil
2018	Evolution - undergraduate level course, Federal University of Pará, Brazil
2018	Evolution - undergraduate level course, Federal University of Pará, Brazil
2017	Science Teaching and Practice - undergraduate level course, Federal University of Pará, Brazil

MENTORSHIP

Undergraduate Mentorship:

2024	Isabella Gates – Loyola University Chicago, USA (co-mentored with Dr. Sara Lipshutz)
2023	Amanda Haft – Pennsylvania State University, USA

Graduate Co-Mentorship:

2022 - present	Natália Reis, MSc in Environmental Biology – Federal University of Pará, Brazil
2021 - 2023	Fernanda Natália de Sá Freitas, MSc in Environmental Biology – Federal University of Pará, Brazil
2021 - 2023	Danielson Aleixo, MSc in Environmental Biology – Federal University of Pará, Brazil
2018 - 2023	Stella Nobushige, MSc in Zoology – Emilio Goeldi Museum. Co-mentoring with Dr. Lincoln Carneiro da Silva.
2017 - 2019	Layse Albuquerque, MSc in Animal Biology – Federal University of Pernambuco. Co-mentoring with Dr. Luciano Naka

ACADEMIC SERVICE & OUTREACH

Reviewer in Academic Journals (19 manuscripts as of 07/2024):

Current Biology (1), Molecular Ecology (2), Ecology and Evolution (1), PeerJ (3), Frontiers in Genetics (Evolutionary and Population Genetics) (1), Journal of Biogeography (1), Journal of Ornithology (1), Global Ecology & Conservation (1), Biodiversity & Conservation (1), Frontiers in Ecology and Evolution (1), Conservation Genetics (3), Heredity (1), Scientific Reports (1), Ornithology (1).

Community Services:

09.2023	Examination Committee – MSc Defense of Paulo José Vieira Neto, University of São Paulo, Brazil
08.2023	Examination Committee – PhD qualification of Victor Leandro Silva, Rural Federal University of Pernambuco, Brazil
06.2023	Examination Committee – MSc Defense of Stella Yasmin Nobushige, Federal University of Pará, Brazil
03.2023	4 th Scientific Seminar of the Graduate Program in Biodiversity and Evolution – Presentation moderator (remotely), Emilio Goeldi Museum, Belém, Brazil
10.2022	Grant Reviewer – Competitive Grants Program, College of Agricultural Science, Penn State University
10.2022	Biology Student Research Showcase, Poster judge, Penn State University
11.2021	Examination Committee – PhD qualification of Jéssica Barata da Silva, Federal University of Pará, Brazil
08.2018	Workshop organizer – Molecular Methods Applied to Conservation, Emilio Goeldi Museum, Brazil
04.2017	Workshop organizer – Introduction to Scientific Writing, Federal University of Pará, Brazil

Media and Science Communication:

2024 – present	Social Media Editor – Biogeography.News, PEEER group (https://peer.net/about/)
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2022 – 2023 Social Media Editor – Journal of Biogeography, Wiley & Sons Publishing
 11.2023 Ruffed grouse genetics consistent across Pennsylvania – The Wildlife Society
 10.2023 Ruffed grouse population more resilient than expected, genetic study finds - Press Release, Penn State University

PROFESSIONAL SOCIETIES

2021 – present American Ornithological Society
 2022 – present The Wildlife Society

COMPLEMENTARY FORMATION

Workshop:

07.2024	Navigating Science Publishing	3 rd Joint Congress on Evolutionary Biology
08.2023	Population Genomics	Physalia Courses (online)
03.2019	Next-Generation Sequencing Data Analysis	Museum Emilio Goeldi
05.2018	Educational Leadership	Federal University of Pará
10.2016	Bioinformatics and Computational Biology	Federal University of Pará
06.2016	Community-Based Conservation	Federal University of Pará
03.2014	Inclusive Education	Federal University of Pará
07.2013	Geographic Genetics	Brazilian Society of Genetics
05.2013	Scientific Writing	Federal University of Pará
07.2012	Animal behavior sampling techniques	Brazilian Zoological Society
04.2012	Arachnology	Federal University of Pará
