

# Daniel Antonio Villar

POSTDOCTORAL RESEARCH ASSOCIATE · DEPARTMENT OF ANTHROPOLOGY

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## Education

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### University of Oxford

#### DPHIL BIOLOGY

- Thesis Title: Ecology and Conservation of the Titicaca Grebe (*Rollandia microptera*)
- Supervisors: Rev. Prof. Andrew G. Gosler and Dr. Jorgelina Marino
- Examiners: Dr. Katrina Davis & Prof. Fausto Sarmiento (University of Georgia, USA)

Oxford, U. K.

Oct. 2020 - Mar. 2025

### University of St. Andrews

#### MRES ECOLOGY EVOLUTION AND BEHAVIOUR

- Thesis Title: Evolution of Same-Sex Sexual Behaviour: A Comparative Analysis in North American Field Crickets
- Supervisors: Prof. Nathan W. Bailey and Prof. Kevin Judge (MacEwan University, Canada)
- Examiners: Prof. Susan Healy, Dr. Ellen Garland, & Prof. Sue Bertram (Carleton University, Canada)

St. Andrews, U. K.

Oct. 2019 - June 2020

### University of Oxford

#### BA (HONS.) BIOLOGICAL SCIENCES

- Undergraduate Project Dissertation Title: Using Diatom Based Paleoenvironmental Reconstruction of a Tropical Lake to Study Ecosystem Variability and Resilience: the Case Study of Lake Asososca, Nicaragua
- Undergraduate project supervisor: Dr. Elizabeth Jeffers

Oxford, U. K.

Oct. 2016 - June 2019

## Professional Experience

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### POST-DOCTORAL

2025 - **Postdoctoral Research Associate**, Department of Anthropology, Durham University

### PRE-DOCTORAL

2023 **Environmental Consultant**, ISEAL Alliance

2023 **Research Assistant**, Department of Geography, University of Oxford

2022 – 2024 **Visiting Researcher**, Universidad Nacional del Altiplano, Puno, Perú

2022 – 2024 **Research Associate**, Museo Nacional de Historia Natural, La Paz, Bolivia

2021 – 2025 **Tutor**, Department of Biology, University of Oxford

2017 **Research Intern**, Department of Invertebrate Zoology, National Museum of Natural History, Smithsonian Institution

## Awards, Fellowships, & Grants

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### AWARDS

2024 **Best ECR Presentation**, British Ecological Society Aquatic Group Annual Meeting

### FELLOWSHIPS

2025 **Fellow**, Linnean Society of London

2025 **Fellow**, Royal Anthropological Institute

2025 **Fellow**, Zoological Society of London

2024 **Yenching Global Symposium Delegate**, Yenching Academy of Peking University

2018 **Exhibitioner**, Wadham College, Oxford

### GRANTS

|      |                                                                                         |                         |
|------|-----------------------------------------------------------------------------------------|-------------------------|
| 2024 | <b>Travel Grant</b> , International Society for Behavioural Ecology                     | AU\$2000                |
| 2023 | <b>BES Small Grant</b> , British Ecological Society                                     | £5000                   |
| 2022 | <b>NEIF Stable Isotope Laboratory Funding</b> , National Environmental Isotope Facility | £20,000<br>(Equivalent) |
| 2021 | <b>Santander Travel Grant</b> , University of Oxford                                    | £2000                   |
| 2018 | <b>Travel Grant</b> , Wadham College, Oxford                                            | £500                    |
| 2017 | <b>Student Grant</b> , Explorer's Club of New York                                      | \$1500                  |
| 2016 | <b>Student Grant</b> , Explorer's Club of New York                                      | \$1000                  |

## Publications

### PUBLISHED

- Villar, D. A.**, Marino, J., & Gosler, A. G. 2025. Sexual dichromatism increases with altitude in birds with ultraviolet sensitive vision. *Journal of Zoology*, <https://doi.org/10.1111/jzo.70002>
- Coose, S., Thomsen, B., Dodsworth, T., Eckl, F., Thomsen, J., Such, R., Guardia-Urbe, S., **Villar, D. A.**, & Gosler, A. G. 2025. Beyond Saving Lives: Political Ecology, Animal Welfare, and the Challenges of Wildlife Rehabilitation in Costa Rica. *Human-Animal Interactions*, <https://doi.org/10.1079/ha.2025.0012>
- Harvey, W. J., Black, N., Essaouabi, S., Petrokofsky, L. Rangan, V., Stancliffe-Bird, M., **Villar, D. A.**, Waite, M., & Petrokofsky, G. 2025. Impact of certifications and labels on greenhouse gas emissions: a systematic map. *Sustainability*, 17(2), 756. <https://doi.org/10.3390/su17020792>
- Thomsen, B., Vassallo, J., Wright, C., Chen, S., Thomsen, J., **Villar, D.**, Gosler, A., Best, T., Deshwal, A., Coose, S., Such, R., Huikuri, S., Fennell, S. R., Hincapié, M. A., Winfrey, D., Mirin, B. H., Pekrul, A., Riley, E., & Muurlink, O. 2024. Reimagining entrepreneurship in the Anthropocene through a multispecies relations approach. *Journal of Business Venturing Insights*, 22, e00507. <https://doi.org/10.1016/j.jbv.2024.e00507>
- Villar, D. A.**, Velásquez-Noriega, P., Gutiérrez Tito, E. G., Paca-Condori, A. C., Moreno Terrazas, E. G., Hinojosa Cárdenas, R., Balcón Cuno, A., Villanueva, C., Chapman, P., Quispe, J., Marino, J. & Gosler, A. G. Estimating the Global Population Size and Highlighting Conservation Priority Areas for the Endangered Titicaca Grebe. *The Journal of Wildlife Management* <https://doi.org/10.1002/jwmg.22659>
- Villar, D. A.**, Gutiérrez Tito, E. G., Paca-Condori, A. C., Velásquez-Noriega, P., Paca-Condori, A. C., Moreno Terrazas, E. G., Balcón Cuno, A., Hinojosa Cárdenas, R., Villanueva, C., Chapman, P., Chiaverini, L., Marino, J., & Gosler, A. G. Problems Combining Modelling and Social Science Approaches to Understand Artisanal Fisheries Bycatch in Lake Titicaca. *Diversity and Distributions*. <https://doi.org/10.1111/ddi.13918>
- Villar, D. A.** Reverse Mounting in Birds. *Ethology Ecology & Evolution*. <https://doi.org/10.1080/03949370.2024.2366855>
- Villar, D. A.**, Yanes, E., Gutiérrez Tito, E., & Gosler, A. G. Addressing conflict between fishermen and conservationists through diet analysis of the Titicaca Grebe (*Rollandia microptera*). *Ibis*. <https://doi.org/10.1111/ibi.13337>
- Villar, D. A.**, Thomsen, B., Paca Condori, A. C., Gutiérrez Tito, E. R., Velásquez-Noriega, P., Mamani, E., Arivilca Vilca, M., Moreno Terrazas, E. G., Marino, J., & Gosler, A. G. 2024. Indigenous-Wildlife Conflict and Coexistence in the Altiplano. *Journal of Ethnobiology*, 44(2), 141-154. <https://doi.org/10.1177/02780771241246856>
- Villar, D. A.**, Thomsen, B., Gutiérrez Tito, E. R., Paca Condori, A. C., Velásquez-Noriega, P., Mamani, E., Arivilca, M., Moreno Terrazas, E. G., Marino, J., & Gosler, A. G. 2024. Declining Use of Totorá (*Schoenoplectus californicus* subsp. *tatora*) in Lake Titicaca. *Human Ecology*, 52, 1-14. <https://doi.org/10.1007/s10745-024-00478-5>
- Quispe, J., **Villar, D.**, Zapana, J., Thomsen, B., & Gosler, A. G. 2023. Perceptions of the Titicaca Grebe (*Rollandia microptera*) in a Peruvian Aymara Fishing Village. *Ethnobiology Letters*, 14(1), 49–57. <https://doi.org/10.14237/ebl.14.1.2023.1858>
- Thomsen, B., Harte, M., Muurlink, O., Copeland, K., **Villar, D. A.**, Mirin, B. H., Murtough, K. L., Fennell, S. R., Kulkarni, A., Kumar, N., Dyer, R., Deshwal, A., Campbell, P., Pekrul, A., Fanshawe, J., Maxwell, J., Zhang, Z., Thomsen, J., Coose, S., Nickerson, D., & Gosler, A. G. 2023. Decolonizing Bird Knowledge: More-than-Western Bird-Human Relations. *Ornithological Applications*, 126(1), duad053. <https://doi.org/10.1093/ornithapp/duad053>
- Villar, D. A.**, Long, P., Gutiérrez Tito, E. R., Moreno Terrazas, E. G., & Gosler, A. G.. 2023. Trends in the area of suitable breeding habitat for the Endangered Lake Titicaca Grebe *Rollandia microptera*, 2001–2020. *Bird Conservation International*, 33, E52. <https://doi.org/10.1017/S0959270923000011>

### BOOK CHAPTERS

**Villar, D. A.** Lake Titicaca In Demolin-Leite, G. L. (Ed.) *Aquatic Biomes: Global Biome Conservation and Global Warming Impacts on Ecology and Biodiversity*. (pp. 149-168). Elsevier. 10.1016/B978-0-443-15726-4.00010-4

## IN PRESS

Carlen, E. J., Caizergues, A. E., Jagiello, Z., Kuzyo, H., Munshi-South, J., Alberti, M., Bonilla, S., Booth, W., Charmantier, A., Cook, E. M., Gosler, A. G., Gotanda, K. M., Govaert, L., Grimm, N. B., Johnson, L. E., Li, D., Malesis, A. N., Martin, E., Marzluff, J., Mazurek, M., Miles, L. S., Phifer-Rixey, M., Salazar-Valenzuela, D., Savage, A., Schmidt, C., Snyder, R., Stadnicki, I., Vergeles, Y., Verelli, B. C., **Villar, D. A.**, Willmott, M., Yates, S., Zhou, Y., Garroway, C. J., Szulkin, M. Legacy effects of religion, politics, and war on urban evolutionary biology. *Nature Cities*

## BOOK REVIEWS

**Villar, D. A.** 2023. Review of *Aboriginal Peoples and Birds in Australia: Historical and Cultural Relationships* by Philip A. Clarke. Clayton: CSIRO Press. ISBN: 9781486315970. *Journal of the Anthropological Society of Oxford*. XV:284-286

## Presentations

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### INVITED PRESENTATIONS

**Villar, D. A.** 2024. The Evolution of Same-Sex Sexual Behaviour: A Comparative Perspective. School of Biological and Medical Sciences, Oxford Brookes University, Oxford, U. K.

**Villar, D. A.** 2024. Ethnobiology and Conservation in the Andes. Sydney Environment Institute, University of Sydney, Sydney, Australia

**Villar, D. A.** 2024. Ethnobiology and Conservation. Department of Plant Sciences, Quaid-i-Azam University, Islamabad, Pakistan

**Villar, D. A.** 2024. La Ecología y Conservación del Zambullidor del Titicaca. Museo Nacional de Historia Natural, La Paz, Bolivia

**Villar, D. A.** 2024. La Importancia de las Colecciones de Historia Natural, Contemporáneas e Históricas, para la Ecología y la Conservación de la Biodiversidad. Facultad de Ciencias Biológicas, Universidad Nacional del Altiplano, Puno, Perú

**Villar, D. A.** 2023. Museología y Conservación Biológica. Servicio Nacional Forestal y de Fauna Silvestre, Puno, Perú

### CONFERENCE PRESENTATIONS

**Villar, D. A.** 2025. The effects of dispersal syndrome on climatic niche change amongst birds in the Holocene and Late Pleistocene. 2025 Crossing the Palaeontological-Ecological Gap Meeting & Conservation Palaeobiology Symposium. Zurich, Switzerland

**Villar, D. A.** 2025. Totoro as a case study of declines of traditional resource management in the Central Andes through market integration. 2025 Society of Ethnobiology Annual Conference. Lake Tahoe, U.S.A.

**Villar, D. A.** 2025. Dispersal Syndrome and Climatic Niches of Holocene and Late Pleistocene Birds. 2025 Association for the Study of Animal Behaviour Spring Meeting. Liverpool, U. K.

**Villar, D. A.** 2025. Combining Modelling and Social Science Approaches to Understand Artisanal Fisheries Avian Bycatch. 2025 British Ornithological Union Annual Conference. Nottingham, U.K.

**Villar, D. A.** 2025. Using Local Ecological Knowledge to Estimate Past Abundances of Fish and Waterfowl Species in Lake Titicaca. 8th European Conference of Tropical Ecology. Amsterdam, The Netherlands

**Villar, D. A.** 2024. Combining Social Science and Distribution Models to Estimate Fisheries Bycatch from Small-Scale Inland Fisheries. British Ecological Society Annual Meeting. Liverpool, U. K.

**Villar, D. A.** 2024. A Comparative Approach to the Marshmallow Test. 10<sup>th</sup> European Student Conference on Behaviour & Cognition. Paris, France

**Villar, D. A.** 2024. Combining Modelling and Social Science Approaches to Understand Artisanal Fisheries Bycatch. British Ecological Society Aquatic Group Annual Meeting. Derby, U. K.

**Villar, D. A.**, Quispe, J. 2024. Successful Community Conservation in the Altiplano. Conservation Optimism Summit. Oxford, U. K.

- Villar, D. A.** 2024. No Evidence of a Global Altitudinal Gradient in Sexual Dichromatism. British Ecological Society Macroecology Special Interest Group Annual Conference. Cardiff, U. K.
- Villar, D. A.** 2024. Indigenous-Wildlife Conflict in Lake Titicaca. 18th Congress of the International Society of Ethnobiology, Marrakesh, Morocco
- Villar, D. A.** 2024. Population Density, Mistaken Identity, and Interspecific Variation in Avian Same-Sex Sexual Behaviour. Association for the Study of Animal Behaviour Spring Meeting, Exeter, U. K.
- Villar, D. A.** 2024. Addressing conflict between fishermen and the Titicaca Grebe (*Rollandia microptera*) through diet analysis. European Ornithological Union Fledglings Meeting, Prague, Czech Republic
- Villar, D. A.,** Tinsley, E. K. 2024. Testing the Mistaken identity Hypothesis for Same-Sex Sexual Behaviour in Birds. Ethologische Gesellschaft Annual Meeting, Münster, Germany
- Villar, D. A.,** 2023. Local Attitudes Towards an Endangered Grebe. Student Conference on Conservation Science, Cambridge, U.K.

#### CONFERENCE POSTERS

- Villar, D. A.,** Tinsley, E. K. 2024. Population Density and Same-Sex Sexual Behaviour in Birds. International Society of Behavioural Ecology Congress 2024, Melbourne, Australia
- Villar, D. A.,** Thomsen, B., Paca Condori, A. C., Gutiérrez Tito, E. R., Velásquez-Noriega, P., Mamani, E., Arivilca Vilca, M., Moreno Terrazas, E. G., Marino, J., Gosler, A. G. 2024. Indigenous-Wildlife Conflict and Coexistence in the Altiplano. 7th European Congress of Conservation Biology, Bologna, Italy
- Villar, D. A.,** Marino, J, Gosler, A. G.. 2023. No Evidence of Global Altitudinal Gradient in Sexual Dichromatism. British Ecological Society Annual Meeting, Belfast, U. K.
- Harasewych, M.G., González, V., **Villar, D. A.,** Strong, E., Uribe, J. E.. 2018. Phylogenetic position of the pleurotomariid snails using mitogenomics (Mollusca: Gastropoda: Vetigastropoda). Colombian Congress of Zoology, Bogotá, Colombia

#### MISCELLANEOUS PRESENTATIONS

- Brooks, R., Butler, C., **Villar, D. A..** 2025. Queer Planet. Public Panel Discussion, Oxford Museum of Natural History, Oxford, U. K.
- Villar, D. A..** 2023. Fisher-Grebe Conflict in Lake Titicaca. Departmental seminar: Department of Biology, University of Oxford, Oxford, U. K.