Daniel Dornan

DISEASE ECOLOGIST

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CURRENT POSITION

2025 – present Postdoctoral researcher. ReWetFor & BEPREP projects, Faculty of Biological and Environmental Sciences, University of Helsinki, Finland.

EDUCATION

Ph.D. Biological Sciences. Thesis: Developing effective rat control for rural Madagascar landscapes: using hierarchical modelling approaches to inform strategies to reduce zoonotic disease risk. Committee: Dr Sandra Telfer, Aberdeen University, Aberdeen, UK.

MSc Primate Behaviour and Conservation (High Merit). School of Natural Sciences and Psychology, Liverpool John Moores University (LJMU), Liverpool, UK.

BSc (Hons) Wildlife Ecology and Conservation Science (First Class), Dissertation: Faculty of applied sciences, Department of biological, biomedical, and analytical sciences, University of the west of England (UWE), Bristol, UK.

PUBLICATIONS

Dornan, D, *et al. (in prep)* Using integrated spatial occupancy models to quantify the success of control experiments.

Dornan, D, *et al.* (*in prep*) The epidemiology of Leptospira and hantavirus infections in black rats (*Rattus rattus*): conspecific and Interspecific density of invasive rodents and trapping effort on prevalence in a heterogeneous landscape.

Dornan, D, & Telfer, S. (*in prep*) Invasive Rat Spatial-Temporal Patterns in Abundance: Habitat, Landscape, and Season Influence on Population Dynamics in Rural Madagascar.

Dornan, D, & McCabe, G. (2020) Geophagy by Sanje mangabeys (*Cercocebus sanjei*) of the Udzungwa Mountains, Tanzania: patterns of soil consumption and analysis of soil nutrients. *African Primates*.

ORGANIZED SYMPOSIA

2024 **Dornan, D,** et al. Rodent control for different motives, The Student Conference in Conservation Science (SCCS), Cambridge, UK.

2023 **Dornan, D,** et al. The epidemiology of Leptospira infections in black rats (*Rattus rattus*) in a heterogeneous landscape. EPIDEMIC9, Bologna, Italy.

2023 **Dornan, D,** et al. Understanding spatial-temporal patterns of *Rattus rattus* abundance in rural Madagascar to inform control strategies. 17th Rodens et Spatium international conference on rodent biology, Valladolid, Spain.

2022 **Dornan, D,** et al. An Invasive rats' spatial-temporal patterns of abundance in rural Madagascar: potential impacts on control and human health. BES Annual Meeting, Edinburgh, UK.

2022 **Dornan, D** et al. Individual-based modelling (IBM) can be a valuable tool for managing invasive rodent populations, Spatial Ecology Workshop: Integrating mathematical theory and ecological applications, University of Sheffield, UK.

2018 **Dornan, D** & McCabe, G. Geophagy by Sanje mangabeys (*Cercocebus sanjei*), PSGB Winter Meeting, Bristol zoological Society, Bristol, UK.

2017 Dow, S & **Dornan, D.** Social dynamics in a group of western lowland gorillas (*Gorilla gorilla gorilla*), 19th BIAZA Annual Research Conference, RZSS Edinburgh Zoo, Scotland, UK.

FUNDING

2024 Sir Maitland Mackie Scholarship (award: £420)

2020 – 2024 EASTBIO BBSRC Doctoral Training Partnership scholarship (award: £80,000)

2019 Primate Conservation Inc. (award: $2,750)

WORK HISTORY

2023 RSPB - Rathlin: Life Raft project EASTBIO placement. Northern Ireland.

2016 – 2017 Conservation Science Intern, field and conservation science department, Bristol Zoological Society, Bristol, UK.

2015 – 2018 Natural Science Intern, Department of Biology and Natural Sciences, Bristol Natural History Museum, Bristol and South Gloucestershire, UK.