

Luke Ozsanlav-Harris

SPATIAL ECOLOGIST

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Skills Summary

Data: Statistical Modelling | Spatial Data Analysis | Biologging Data | R | Shiny | QGIS | Git

Writing: Scientific | Technical Reports | Public Communication

Interpersonal: Stakeholder Engagement | Collaboration | Project Management

Education

PhD in Ecology

Penryn, Cornwall

UNIVERSITY OF EXETER

2019 - 2022

- Dissertation: Understanding the decline of a long-distance migratory bird, The Greenland White-fronted Goose.

MSc in Applied Ecology (Distinction)

Penryn, Cornwall

UNIVERSITY OF EXETER

2017 - 2018

- Dissertation: Understating the genetic basis of colour polymorphism in the green peach aphid.

BSc Natural Sciences (2:1)

Durham

UNIVERSITY OF DURHAM

2014 - 2017

- Literature Review: The decline of farmland birds in UK.

Employment

MarPAMM funded project: Isle of Rum Manx Shearwater census

SPATIAL ANALYST & FIELDWORK

May - June 2021

- Surveyed the Manx shearwater colony, carrying out habitat and burrow occupancy surveys.
- Led spatial analysis for the final population estimate; manipulated Sentinel imagery and digital elevation models to build a predictive spatially explicit model that calculated burrow nesting bird density over the entire colony.

JNCC Consultancy: Review of avoidance rates for collision risk modelling of seabirds

ANALYST AND REPORT LEAD AUTHOR

Jan - Feb 2022

- Link to the report produced within short deadline (6 weeks): <https://hub.jncc.gov.uk/assets/de5903fe-81c5-4a37-a5bc-387cf704924d>
- Recalculation of avoidance rates in R and sensivity analysis to test the effect of various input parameters.
- Updated avoidance rates were detailed in a technical report and results were presented to marine scientist and windfarm industry stakeholders.

Wildfowl and Wetlands Trust

RESEARCH OFFICER

Oct 2022 - April 2023

- Publish work carried out during my PhD in international scientific journals.
- Manage and curate waterfowl large tracking data sets, including upload to online repositories.
- Write guide to help researchers with the processing and visualisation of animal tracking data in R.