Olivia Florence Morris

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Education

PhD in Ecology and Conservation, Imperial College London **2019 - 2022**

Project: Modelling population dynamics and conservation techniques in Salmonids
Supervisors: Professor Guy Woodward, Dr James Rosindell, Dr Samraat Pawar

Msc Ecology, Evolution and Conservation, Imperial College London **2016 – 2017**

Providing broad research training, this course included a number of modules in many areas of ecology, as well as including advanced statistics and field courses.

Project work

Activity budgets in terrestrial carnivores — Supervisor: Dr Samraat Pawar, Imperial College London

Main Research Project

The Origins of Galapagos Reptiles — Supervisor: Dr Natalie Cooper, The Natural History Museum

BSc Hons Zoology, Swansea University **2011 - 2014**

A degree in zoology has given me a range of practical laboratory and field-based skills. Course modules included topics from the molecular level, to individual plant and animal diversity, form and function, to whole marine and terrestrial ecosystems. From this I gained a broad and in-depth knowledge in animal behaviour, ecology and conservation.

Dissertation

The diving behaviour of the chinstrap penguin: the case for optimising efficiency
Supervisor: Professor Rory Wilson, Swansea University

Research Experience

Research Assistant; Imperial College London **January 2019 - June 2019**

Project: Multiple stressors of aquatic ecosystems
Using meta-analysis techniques to synthesise the existing literature of how temperature changes interact with other anthropogenic induced environmental stress comparing different null models as well as environments, species, interactions and responses.

Field and Lab Assistant; Imperial College London **September 2018 – June 2019**

This role included data collection through sampling lentic ecosystems for a large-scale warming and multiple stressor experiment. Sampling the water column, sediment, leaf litter and biofilm for microbes to invertebrates, this role also included working in a microbiology laboratory involving the preparation and processing of these samples.

Research Technician; Imperial College London **February 2018 – December 2018**

Biotraits database lead – Within this role I have helped develop a database of individual biological traits and how they respond to temperature and/or body size for eventual public use.
Role duties involved:

- Collating, digitising and adding data to the database
- Developing code for how to use the database, as well multiple model fitting code and protocols for general use of the database
- Supporting students within the university using the database, with help to analyse, understand and fit models to the data

Research Assistant; Imperial College London **March 2018 - September 2018**

Project: Atlantic Salmon Population Forecasting and Sustainability

- Involved within the data modelling team, collecting and digitising data and aided in developing a matrix population model to lead into insights of conservation efforts
- Carried out time series analysis, utilising available catch data

- Involved field work in Iceland collecting data, including electrofishing to analyse fish species, size, weight and gut contents
- Conducted laboratory work, processing field samples collected, this included processing of fish gut samples as well as diatom digestion to identify species found at sample sites
- Wrote and produced figures for final report of project

Work Experience

Seasonal Field Ecologist; Jacobs Engineering Group, Reading **April 2018 – October 2019**

Within this role I assisted in a number of ecological surveys on large scale engineering projects. Surveys undertaken include bird surveys, bat surveys including bat tree assessment and activity, botany surveys within woodland, hedgerow and arable land, riparian mammal, reptile, habitat assessment, dormice, badger, great crested newt and phase 1 habitat and eDNA surveys.

With safety being one of Jacobs' core values, I have completed training and courses to undertake work in the field as well as in an office environment, this includes safe practices whilst driving, working near water theory and practice, first aid training, CSCS trained, as well as regular OLAS training.