

# KYNAN DELANEY

## Biologist & Data Scientist

I am an ecologist recently graduated from a PhD at the University of Edinburgh.

My research interests have been focused on how ageing manifests in demographic and phenotypic traits and across shifts in environment. Through my work, I have gained quantitative skills in diverse forms of analysis, from time series and survival analyses, to computer-vision and GIS methods. My work involved primary data collection, as well as the analysis of existing datasets, all involving messy, real-world biological data.



## EDUCATION

2024  
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2019

**University of Edinburgh**  
PhD Ecology & Evolution

📍 Edinburgh, UK

Thesis: Plasticity of ageing in burying beetles

2018  
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2017

**Exeter University**  
MSc Evolutionary & Behavioural Ecology

📍 Exeter, UK

Thesis: Ageing in female mate choice in *Drosophila simulans*

2016  
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2012

**Trinity College Dublin**  
BA Mod(Hons) Zoology

📍 Dublin, Ireland



## PROFESSIONAL EXPERIENCE

2024

**Co-Advisor Postgraduate Research Project**

University of Edinburgh

📍 Edinburgh, UK

- Project title: Using machine learning to automate the identification of specific individuals belonging to a local burying beetle population.

2022

**Co-Advisor Undergraduate Summer Project**

University of Edinburgh

📍 Edinburgh, UK

- Project title: The Effect of Ageing on the Colour of Burying Beetles, *Nicrophorus vespilloides*.

2022

**Co-Advisor Undergraduate research projects**

University of Edinburgh

📍 Edinburgh, UK

- Project title: Estimating genetic constraints on the evolution of carapace patterns in a burying beetle, *Nicrophorus vespilloides*.
- Project title: The Effect of Age and Experience on Flight Ability and Lifespan in the Burying Beetle, *Nicrophorus vespilloides*.

## CONTACT INFO

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🔗 [github.com/KynanDelaney](https://github.com/KynanDelaney)

☎ +44 7734 694069

For more information, please contact me via email.

## SKILLS

### Languages

R, Python, and SQL

### Data processing and visualisation

Tidyverse tools, flexdashboard, and RMarkdown

PyQt

Postgres and SQLite

### Analysis

Power analyses

GLMMs, GAMMs, Survival

Analyses, and Time-series

analyses

Mark-recapture Population

Modelling

Bayesian & Frequentist methods

Computer Vision methods

### Technical Skills

Academic Writing and Presentation

Field Data-Collection

Familiar with Debian-based Linux distributions

3D Design, Scanning, and Printing

Soldering, Electronics, and Data-

Logger Configuration.

- 2021  
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2020
- **Postgraduate Course Demonstrator**  
University of Edinburgh  Edinburgh, UK
    - Provided in-person support to MSc students on an introductory statistics course (PGB111003) for quantitative genetics.
    - Led remote-learning sessions concerning theory and practical applications of methods.
- 2019
- **Technical Support Specialist**  
Voxpro  Dublin, Ireland
    - Provided technical support over phone and email for addressing hardware and software issues with smart-home security installations.
    - Involved direct communication with customers, engineers, and identification of emerging trends for team training.



## PUBLICATIONS AND COMMUNICATIONS

- 2024
- **Ageing across environments - how burying beetles age in the laboratory and the wild**  
Talk for the Scottish Ecological Ageing Research Group  Edinburgh, UK
- 2023
- **Plasticity of ageing in burying beetles**  
Talk for the Darwin Trust Symposium  Edinburgh, UK
- 2023
- **Ageing in wild- and lab-living beetles**  
Talk for the European Meeting for PhD Students in Evolutionary Biology  Millport, UK
- 2020
- **Maternal presence influences vital rates in a burying beetle species with facultative parental care**  
Poster for Evolutionary Demography 7  
K. Delaney & J. Moorad
- 2019
- **Flexible polyandry in female flies is an adaptive response to infertile males**  
Behavioral Ecology, 30(6), 1715-1724.  
Sutter, A., Travers, L. M., Oku, K., L. Delaney, K., J. Store, S., Price, T. A., & Wedell, N.



## REFERENCES

- **Dr. Jacob Moorad**
  - [Jacob.Moorad@ed.ac.uk](mailto:Jacob.Moorad@ed.ac.uk)
  - Institute of Ecology and Evolution, School of Biological Sciences, University of Edinburgh, Edinburgh EH9 3FL, United Kingdom
- **Dr. Ally Phillimore**
  - [albert.phillimore@ed.ac.uk](mailto:albert.phillimore@ed.ac.uk)
  - Institute of Ecology and Evolution, School of Biological Sciences, University of Edinburgh, Edinburgh EH9 3FL, United Kingdom