

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

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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
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
 - 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
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*This resume was made with the R package **pagedown**.*

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