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 worked involved primary data collection, as well as the analysis of existing datasets, all involving messy, real-world biological data.

EDUCATION

2024 | 2019

University of Edinburgh
PhD Ecology & Evolution — Edinburgh, UK

Thesis: Plasticity of ageing in burying beetles

2018 | 2017

Exeter University
MSc Evolutionary & Behavioural Ecology — Exeter, UK

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

2016 | 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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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 | 2020

Postgraduate Course Demonstrator
University of Edinburgh — Edinburgh, UK

- Provided in-person support to MSc students on an introductory statistics course (PGBI11003) 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

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