

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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For more information, please contact me via email.

SKILLS

Experienced in data cleaning, visualisation, and statistical analysis.

Skilled in R, Python, and SQL.

Experienced with GLMMs, GAMs, Survival Analyses, Time-series analysis, Mark-recapture population modelling, Bayesian & Frequentist methods.

Proficient in Computer Vision methods and processing large data.

Technical skills: 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
- **Someone else**
 - someone@ed.ac.uk
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*This resume was made with the R package **pagedown**.*

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