







Francesca Gray



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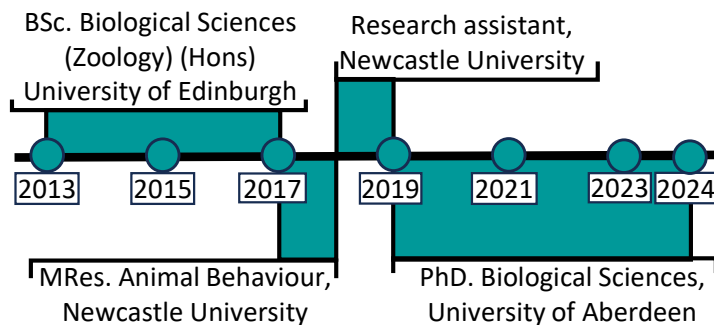
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“Behavioural and evolutionary ecologist with broad interests in understanding natural or anthropogenic environmental stressors in wild bird populations”

○ Research interests

- Behavioural adaptation in response to **changing environmental conditions**
- Implications of environmental constraints for **wild bird populations**
- Welfare and **conservation** of wild bird populations

○ Research and education



2 peer reviewed publications **1** first author publication

Full list: see bottom of resume

[orcid ID: 0000-0001-8059-2373](https://orcid.org/0000-0001-8059-2373)

○ Funding

Travel grant (£300), British Ornithological Union, 2023

QUADRAT **PhD studentship** (~£80k, full time): Exposure and consequences of organic pollutants in wild Alpine swift colonies, 2019 - 2024

Undergraduate **summer studentship** (10 weeks, full time): parent-offspring competition in the burying beetle, follow-up experiment and publication of undergraduate project, 2017

○ Teaching/supervision

Supervision of **2 undergraduate students** and **2 master's students**

Demonstrated on various courses including ArcGIS (1st + 2nd years) and Field Skills in Animal Behaviour (3rd years)

Primary school engagement, Aberdeen Biodiversity Centre

○ Projects

PhD	Flying sentinels: using a long-distance migratory bird to assess exposure to POPs over two continents and their health consequences. (University of Aberdeen)
Research assistant	How food insecurity affects body weight trajectories in birds? A meta-analysis. (Newcastle University)
MRes/ Research assistant	How do starlings adjust daily patterns of body mass change and foraging behaviour in response to food insecurity? (Newcastle University)
BSc	Competition between parents and offspring over consumption of a shared food source (University of Edinburgh)

○ Competencies

Presentations

European Ornithological Union conference,
Sweden, 2023 (seminar talk)
British Ecological Society conference, UK, 2022
(talk)
Whey Aye Welfare, pre-conference UK, 2018 (stall)

Advanced statistics and visualisation

Large dataset handling (R)
Network meta-analysis (R)
ArcGIS
Data visualisation (R)
Principle component analysis (R)

Prizes and awards

Best student presentation – Annual Science
meeting, QUADRAT, 2022

Other

Interviewed by a journalist, The Guardian, 2023
Strategic Management and Leadership
qualification, CMI Level 7, 2021
Principles of Learning and Teaching in Higher
Education course (ongoing)

○ References

Dr. Davina Deros

Primary PhD supervisor
Institute of Biological and
Environmental Sciences
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Dr. Pierre Bize

Secondary PhD supervisor
Anthropogenic Effects
Switzerland Ornithological
Institute (Vogelwarte)
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Prof. Melissa Bateson

*MRes and research assistant
supervisor*
Institute of Neuroscience
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○ Publications

1. **Gray, F.E.**, Richardson, J., Ratz, T. and Smiseth, P.T., 2018. No evidence for parent–offspring competition in the burying beetle *Nicrophorus vespilloides*. *Behavioral Ecology*, 29(5), pp.1142-1149. [Available here](#).
2. Bateson, M., Andrews, C., Dunn, J., Egger, C.B., **Gray, F.**, Mchugh, M. and Nettle, D., 2021. Food insecurity increases energetic efficiency, not food consumption: an exploratory study in European starlings. *PeerJ*, 9, p.e11541. [Available here](#).