JACK JAMES DEVLIN

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SUMMARY

University of Kentucky Entomology PhD student with interests in entomology and ornithology, with conservation themes. Highly motivated and enthusiastic individual who is always looking to gain new skills and improve on those I have already learnt. I also appeared in an episode of ScubaZoo TV's *Borneo Jungle Diaries* during their time filming at Danau Girang Field Centre in Sabah, Malaysian Borneo: https://www.youtube.com/watch?v=OGAprn2Th84

EDUCATION

PHD IN ENTOMOLOGY AT UNIVERSITY OF KENTUCKY. JANUARY 2020 –

My work is to focus on species-specific adaptations to extreme environments through comparative physiology and transcriptomics. This will be achieved using species of midge (Chironomidae) found in Antarctica.

BIOSCIENCE MRES STAGE 1 AT CARDIFF UNIVERSITY. SEPTEMBER 2018 – FEBRUARY 2019. DISTINCTION.

A tailored course designed to improve research skills across a wide range of scientific disciplines.

Modules:

- Research Techniques in Bioscience (71% achieved)
- Data Handling and Statistics (79% achieved)
- Key Skills in Research Practice (68% achieved)
- Thesis: "Common pheasant (*Phasianus colchicus*) densities in upland Wales and their impact on invertebrate communities" (75% achieved)

BSc Biology w/ **PTY** at Cardiff University. September 2014 – June 2018. First Class w/Honours

Professional Training Year (PTY) conducted at the Danau Girang Field Centre, Malaysian Borneo. Independent research project entitled: "A preliminary assessment of terrestrial and low-flying arthropod diversity and family richness in degraded secondary forest of the Lower Kinabatangan Wildlife Sanctuary, Sabah" (73% achieved).

Final Year Modules:

- Conservation Biology (70% achieved)
- Animal Parasitology (68% achieved)
- Advanced Topics in Animal Behaviour (69% achieved)
- Global Climate Change Ecology (79% achieved)
- Dissertation: "*Drosophila melanogaster* worldwide population structure and inference of demographic history using *Msvar*" (75% achieved)

RELEVANT EXPERIENCE

LABORATORY ASSISTANT FOR DR RENATA MEDEIROS AT CARDIFF UNIVERSITY. SEPTEMBER 2015 – NOVEMBER 2015

DNA Extractions of feathers and stomach-regurgitation samples. Use of DNA extraction techniques. Use of PCR, gel electrophoresis and implication of lab techniques.

RESEARCH ASSISTANT AT A ROCHA, PORTUGAL. JUNE – JULY 2015, JUNE 2016, JUNE 2018

Investigating the effects of sea surface temperature on storm petrel biodiversity. Night work with long hours (8pm-5am). Main activities included mist netting, bird ringing and taking biometric measurements. Secondary activities

included weather collection using anemometers, thermometers and humidity meters. Otter surveys and moth trapping/identification were also carried out during 2016 and 2018.

Expeditions to Skokholm Island, Wales. July 2016, July 2018, July 2019

Assisted on long-term ringing and observation effort by Skokholm Wardens and staff on the multiple bird species inhabiting the island. Aided in ringing of Manx Shearwaters, Great and Lesser Black-backed gulls and Herring gull chicks and contributed to moth trapping records and butterfly observation work.

Danau Girang Field Centre, Sabah, Borneo. July 2016- July 2017

Professional Training Year as part of BSc Biology at Cardiff University. Assistant for multiple PhD and Masters projects, as well as creation and execution of personal project, with themes of conservation and climate change. Skills utilised during these projects included:

- Tracking of various wild species, including civets, monitor lizards and reticulated pythons. Use of VHF and UHF tracking equipment, and multiple download programmes (BaseStation, ATS Data Logger).
- Nocturnal primate (tarsier and slow loris) studies. 6-hour night follows were conducted and behavioural observations (movement, height in tree, grooming, eating etc) taken every 15 minutes.
- Buccal sampling of anurans for genetic analysis.
- Establishment and execution of own project, involving arthropod sampling and identification. Use of malaise and pitfall traps, as well sweeping and visually searching. Use of analytical programmes including R, EstimateS. QGIS also used in map creation. Benefits included independence and problem solving.
- Navigation within jungle terrain using GPS and trail identification.
- Co-writing scientific communication magazine, The Jungle Times
- Assisting with field courses both as chaperones and educating officers.

MRes Stage 2 field research project, mid-Wales. Jan 2019- August 2019

- Non-lethal invertebrate sampling methods: (sweeping, visual surveys and wooden sampling blocks)
- Camera trapping to document vertebrate densities
- 16 weeks of continuous fieldwork
- Use of analytical programmes such as RStudio & EstimateS to conduct high level of statistical analyses
- Creation of site map using QGIS
- High degree of independence, careful logistical and financial planning
- Negotiation of land-use from the Ministry of Defence

PhD Research Assistant, Graciosa, Azores. September 2019- November 2019

- Remote living with 2-4 researchers working in close quarters.
- Daily nest checks of band-rumped storm petrels taking biometric measurement and genetic samples.
- Regular mist-netting sessions including ringing storm petrels and both Cory's and Little Shearwaters.
- Assisted in setting up/repair of camera traps and Raspberry Pi cameras, using both Terminal and Python.

Main Achievements and Interests

- Duke of Edinburgh Gold
- Previous member of Cardiff University Ornithological Society and Cardiff University Wildlife and Conservation Society.
- PADI Open Water diving certificate