BENJAMIN JOSHUA BURGESS

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- High-level research skills, with projects published in top peer-reviewed scientific journals.
- Over six years' experience in using R to conduct statistical analyses (e.g., meta-analyses and generalised linear mixed models). Additionally developed a statistical R package, openly available through CRAN.
- Extensive experience in meta-analyses and evidence synthesis, having directed or supported several synthesis projects. Likewise identified significant statistical errors in multiple prominent meta-analyses.
- Strong leadership skills, having led multiple collaborations and supervised several student research projects.
- Regularly undertake self-directed learning (e.g., Shiny and network meta-analyses) to diversify skillsets.

EDUCATION

PhD
Sep 17 – Dec 21

Computational Ecology – **University College London** – *Pass with no corrections*

Thesis Title: Null model detection of multiple stressor interactions in aquatic ecosystems.

- Investigated complex systems alongside researchers in academia and industry (DeepMind).
- Published a meta-analysis on multiple stressor effects in a pre-eminent ecological journal.
- Led senior researchers in an international collaboration to showcase that multiple statistical errors had occurred in several highly cited meta-analyses, leading to incorrect conclusions.
- Developed an R package (*multiplestressR*), openly available via CRAN, to simplify statistical analyses and prevent methodological errors from occurring.
- Collaborated on an international project to conserve endangered tulips. Constructed analytical pipelines and revised manuscripts prior to publication in a high-quality journal.
- Supervised three student research projects involving complex statistics (meta-analyses). One student was awarded the departmental prize for best third year dissertation in biology.
- Presented research findings to large audiences (50+ people) within UCL, at invited external seminars (University of Sheffield), and multiple British Ecological Society conferences.

MRes
Oct 16 – Sep 17

Computational Methods in Ecology and Evolution – **Imperial College London** – *Distinction*

- Studied topics including R, Python, statistics, and Geographic Information Systems.
- Undertook a research project using a complex mechanistic model to predict global wildfires.

BSc (Hons)
Sep 13 – Jun 16

Environmental Sciences – **University of Nottingham** – *First Class*

- Studied subjects such as climate change science, biogeochemistry, and Arctic fieldwork.

WORK EXPERIENCE

Jan 22 – Present

Visiting Researcher – **University College London**

- Applying a novel machine learning tool to screen abstracts for a large systematic review.
- Finalising three manuscripts prior to submission to high impact scientific journals.

Dec 21

Administrative Support – **North Uttlesford Covid-19 Mass Vaccination Centre**

- Provided technical support to a medic, directly assisting the vaccination of ~1000 people.

Nov 18 – Dec 19

Postgraduate Teaching Assistant (Postgraduate Biologists) – **University College London**

- Taught advanced statistics (e.g., mixed effect models), intermediate R, and basic Python.
- Graded coursework and provided detailed feedback on how future work could be improved.

Sep 17 – Dec 19

Postgraduate Teaching Assistant (Undergraduate Biologists) – **University College London**

- Introduced cohorts of ~80 students to coding, statistics and data analysis in R.
- Explained challenging analytical concepts in simple terms to students of all abilities.

Jun 16 – Oct 16

Dispensary Assistant – **Thaxted Surgery**

- Ordered, managed, and dispensed medications alongside answering patient enquiries.