

BENJAMIN JOSHUA BURGESS

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London/Cambridge

- 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	<i>Computational Ecology - University College London - Pass with no corrections</i>
Sep 17 - Dec 21	<p>Thesis Title: Null model detection of multiple stressor interactions in aquatic ecosystems.</p> <ul style="list-style-type: none">• 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	<i>Computational Methods in Ecology and Evolution - Imperial College London - Distinction</i>
Oct 16 - Sep 17	<ul style="list-style-type: none">• 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)	<i>Environmental Sciences - University of Nottingham - First Class</i>
Sep 13 - Jun 16	<ul style="list-style-type: none">• Studied subjects such as climate change science, biogeochemistry, and Arctic fieldwork.

WORK EXPERIENCE

Jan 22 - Present	<i>Visiting Researcher - University College London</i> <ul style="list-style-type: none">• Applying a novel machine learning tool to screen abstracts for a large systematic review.• Finalising manuscripts which outline complex statistics to non-technical audiences.
Dec 21	<i>Administrative Support - North Uttlesford Covid-19 Mass Vaccination Centre</i> <ul style="list-style-type: none">• Provided technical support to a medic, directly assisting the vaccination of ~1000 people.
Nov 18 - Dec 19	<i>Postgraduate Teaching Assistant (Postgraduate Biologists) - University College London</i> <ul style="list-style-type: none">• 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	<i>Postgraduate Teaching Assistant (Undergraduate Biologists) - University College London</i> <ul style="list-style-type: none">• 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	<i>Dispensary Assistant - Thaxted Surgery</i> <ul style="list-style-type: none">• Ordered, managed, and dispensed medications alongside answering patient enquiries.