

# BENJAMIN JOSHUA BURGESS

+44789#####42

benjamin.joshua.burgess@gmail.com

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., generalised linear mixed models and [network meta-analyses](#)), create [interactive dashboards](#), and [develop specialist open-source software](#).
- 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.
- Adept at effectively explaining complex analyses to non-technical audiences in a clear and concise manner.

## EDUCATION

<b>PhD</b>	<b><i>Computational Ecology - University College London - Pass with no corrections</i></b>
Sep 17 - Dec 21	<p>Thesis Title: Null model detection of multiple stressor interactions in aquatic ecosystems.</p> <ul style="list-style-type: none"><li>• Investigated complex systems alongside researchers in academia and industry (DeepMind).</li><li>• <a href="#">Published a meta-analysis</a> on multiple stressor effects in a pre-eminent ecological journal.</li><li>• 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.</li><li>• Developed an <a href="#">R package (multipolestressR)</a>, openly available via CRAN, to simplify statistical analyses and prevent methodological errors from occurring.</li><li>• Collaborated on an international project to conserve endangered tulips. Constructed analytical pipelines and revised manuscripts prior to <a href="#">publication in a high-quality journal</a>.</li><li>• Supervised three student research projects involving complex statistics (meta-analyses). One student was awarded the departmental prize for best third year dissertation in biology.</li><li>• Presented research findings to large audiences (50+ people) within UCL, at invited external seminars (University of Sheffield), and multiple British Ecological Society conferences.</li></ul>
<b>MRes</b>	<b><i>Computational Methods in Ecology and Evolution - Imperial College London - Distinction</i></b>
Oct 16 - Sep 17	<ul style="list-style-type: none"><li>• Studied topics including R, Python, statistics, and Geographic Information Systems.</li><li>• Undertook a research project using a complex mechanistic model to predict global wildfires.</li></ul>
<b>BSc (Hons)</b>	<b><i>Environmental Sciences - University of Nottingham - First Class</i></b>
Sep 13 - Jun 16	<ul style="list-style-type: none"><li>• Studied subjects such as climate change science, biogeochemistry, and Arctic fieldwork.</li></ul>

## RECENT WORK EXPERIENCE

Jan 22 - Present	<b><i>Visiting Researcher - University College London</i></b> <ul style="list-style-type: none"><li>• Applying a novel machine learning tool to screen abstracts for a large systematic review.</li><li>• <a href="#">Finalising manuscripts</a> which outline complex statistics to non-technical audiences.</li></ul>
Dec 21	<b><i>Administrative Support - North Uttlesford Covid-19 Mass Vaccination Centre</i></b> <ul style="list-style-type: none"><li>• Provided technical support to a medic, directly assisting the vaccination of ~1000 people.</li></ul>
Nov 18 - Dec 19	<b><i>Postgraduate Teaching Assistant (Postgraduate Biologists) - University College London</i></b> <ul style="list-style-type: none"><li>• Taught advanced statistics (e.g., mixed effect models), intermediate R, and basic Python.</li><li>• Graded coursework and provided detailed feedback on how future work could be improved.</li></ul>
Sep 17 - Dec 19	<b><i>Postgraduate Teaching Assistant (Undergraduate Biologists) - University College London</i></b> <ul style="list-style-type: none"><li>• Introduced cohorts of ~80 students to coding, statistics and data analysis in R.</li><li>• Explained challenging analytical concepts in simple terms to students of all abilities.</li></ul>
Jun 16 - Oct 16	<b><i>Dispensary Assistant - Thaxted Surgery</i></b> <ul style="list-style-type: none"><li>• Ordered, managed, and dispensed medications alongside answering patient enquiries.</li></ul>