

Oliver Spacey

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EDUCATION

St Catherine's College, University of Oxford

2019 - 2023

- Studying for an MBIol in Biology, including modules on: advanced ecology and evolution, biology of infectious disease, crop improvement, conservation, biodiversity and sustainable development, research skills (fieldwork, statistics and computational biology)
- Undertaking 3rd year group project with the UK Centre for Ecology and Hydrology on modelling *Aedes aegypti* mosquito distribution
- Gave an oral presentation on challenges to developing vaccines against STIs
- 2nd year exam results: 1st (79% average, ranked 1st in year), including a poster presentation on using remote acoustic technology to monitor frog populations (graded 86%)
- Completed two-week field course on technologies for ecological monitoring, learning techniques and data analysis, focusing on: dendrochronology, camera trapping and remote sensing, spectroscopy, aquatic ecology and flying unmanned aerial vehicles (drones)
- 1st year formative assessment results: 79% (preliminary exams cancelled)

Outwood Post 16 Centre Worksop

2017 - 2019

- A Levels: Biology A*, Chemistry A*, Mathematics A*
- AS Levels: Further Maths A, Music A
- Level 3 Extended Project Qualification A* (independent research evaluating the uses of CRISPR)
- Achieved Gold medals in 2018 and 2019 British Biology Olympiads, Gold medal in 2019 UK Chemistry Olympiad, Merit in the 2019 UKMT British Mathematical Olympiad

Outwood Academy Valley

2012 - 2017

- GCSEs: 3 Grade 9 in Maths, English Language and Literature, 11 A* including all Sciences

RELEVANT EXPERIENCE

*Independent researcher within SalGo Team (ecology and evolution lab),
Department of Zoology, University of Oxford*

2020 - present

- Managing an independent research project on classifying and quantifying vital rate trade-offs using the COMPADRE database of matrix population models (MPMs), reviewing relevant literature and writing a manuscript for this research, supervised by Dr Rob Salguero-Gómez
- Digitising MPMs from journal articles into COMPADRE and COMADRE databases independently
- Contributing to the lab via research presentations and talking to lab members about their research
- Completed two series of weekly reading group sessions on demographic modelling (9 months) and Bayesian statistics (5 months) with other members of the lab and external researchers

British Ecological Society Ecology Across Borders Conference

2021

- Presented own research on vital rate trade-offs at the largest international conference on ecology in Europe
- Collaborated with lab members to deliver a workshop on demographic models to PhD students

*Data scientist working remotely for iDiv (German Centre for Integrative Biodiversity
Research, Leipzig, Germany)*

2021

- Cleaning and formatting taxonomic and demographic data for the Global Woody Demography Database using data wrangling techniques in R

Research assistant for MacKay Lab (forestry genomics lab), Department of Plant Sciences, University of Oxford **2020 - 2021**

- Assisted a DPhil student with damage response experiment (four weeks), examining the effect of *Hylobius abietis* (large pine weevil) on families of *Picea sitchensis* (Sitka spruce)
- Assisted a DPhil student with drought response experiment (two months), examining the effect of drought on families of *Picea sitchensis* (Sitka spruce) saplings
- Collaborated in a pair to design controlled experiments with sufficient replication, using blocking and randomisation
- Used infrared gas analysis to take photosynthetic measurements and construct light response curves, used pressure chambers to measure water potential, and troubleshooted technical issues
- Used standard equipment to collect metadata (tree height and width, weevil weight and sex, soil pH probes) with efficiency and precision, and set up data loggers to continuously monitor climate
- Worked independently and safely for extended periods in a greenhouse environment while recording measurements with accuracy

Volunteer at Oxford University Herbaria (weekly throughout one term) **2019**

- Organised and photographed specimens of endangered Japanese flora to digitise botanical records

Volunteer on Marine Turtle Conservation Project, University of Exeter (summer) **2019**

- Collected data accurately on adult and hatchling sea turtles in North Cyprus
- Monitored beaches for nesting females, independently recording behavioural data, accurately taking biometric measurements, biopsies and tagging under time limitations
- Worked as part of a team, excavating hatched nests in hot environments to record data on clutch size and composition, taking biometric measurements and biopsies on rescued hatchlings
- Performed necropsies on stranded turtles and recorded relevant data with care
- Organised equipment for fieldwork and reliably stored data sheets and labelled biological samples
- Engaged confidently with members of the public that often spoke little English, and efficiently solved logistic problems via effective communication with team members during night-time tours

Young Darwin Scholarship, Field Studies Council (two one-week residentials) **2017 - 2018**

- Developed ecological field skills, such as sampling with quadrats and transects on beaches and rock pools, and using keys to identify of mammals, birds and marine invertebrates

ADDITIONAL SKILLS AND INTERESTS

QUALIFICATIONS	Drone Flying licence (UK Civil Aviation Authority), “Epidemics – the Dynamics of Infectious Diseases” online course by The Pennsylvania State University via Coursera
OTHER ROLES	JCR Male Welfare Representative for St Catherine’s College 2020-21; Peer Supporter, trained by University Counselling Service; ambassador for Undergraduate Admissions and Outreach, Biology and St Catherine’s College
IT	Intermediate proficiency in R coding
HOBBIES	Grade 8 pianist and music theorist; badminton; yoga