

BENJAMIN WINGHAM

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Education

University of Exeter September 2024 – Current	<ul style="list-style-type: none">• BSc Biological Sciences.• First year average of 78%• A-Level Biology – Grade A• A-Level Environmental Science - Grade A*• A-Level Geography - Grade A• Extended Project Qualification - Grade A	References Dr Ben Temperton B.Temperton@Exeter.ac.uk Dr Michelle Michelson M.Michelson2@exeter.ac.uk
Peter Symonds College September 2021 – August 2023	Dean’s Commendation for exceptional performance at Stage One.	
Awards and Commendations		

Laboratory Experience

Undergraduate Researcher, Citizen Phage Library, University of Exeter (02.09.24 – Present)	<p><u>Isolation and Purification of Phages</u></p> <ul style="list-style-type: none">• Proficient in “Good Laboratory practice” and handling of Class 2 Microorganisms and working independently.• Handling of clinical strains of bacteria, focusing on ClassII antibiotic resistant strains including <i>P.aeruginosa</i> and <i>E.coli</i> from cystic fibrosis respiratory tract infections• Enrichment, Isolation, Purification and categorization of Phages identified from water samples.• Handling of data records for phage infections to enable the identification of clinically relevant phages for given bacteria• Advanced aseptic techniques to ensure the safety of the lab, and to prevent contamination of other experiments. <p><u>Genetic Modification of <i>Pseudomonas aeruginosa</i></u></p> <ul style="list-style-type: none">• Advanced molecular techniques for an ongoing, independent gene deletion project in <i>Pseudomonas aeruginosa</i>.• Skills including but not limited to: Two-step allelic exchange, PCR, gradient PCR, Gel electrophoresis, DNA extraction and quantification, Plasmid transformation <p><u>“Let’s Unlock” Campaign to the Houses of Parliament</u></p> <ul style="list-style-type: none">• Organization of the “let’s unlock” videos at the Houses of Parliament. Chairing interviews with academics internationally to create powerful promotional videos and designing sampling kit boxes• Skills include: Interview techniques, collaboration with international partners, communication skills, Talking to camera, time management and organizational skills <p><u>4-day Internship for the isolation of bacteriophages for common soil bacteria.</u></p> <ul style="list-style-type: none">• Improving my techniques from those taught in undergraduate teaching laboratories, including the safe use of the class II microbiological safety cabinet, centrifuges, and handling of potentially pathogenic bacteria from sewage samples.• Preparation of uncontaminated phage enrichments
Undergraduate Placement– Environment and Sustainability Institute, University of Exeter Penryn Campus (04.06.2024 – 08.06.2024)	

Course-related Laboratory training – University of Exeter

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- Laboratory skills obtained by over 130 hours of Laboratory work.
- Including but not limited to:
- Streak plating, Producing Bacterial Lawns, Antibiotic susceptibility testing, API testing for bacterial identification, Spot plating of Phages, Microscopy, Gram staining, immunostaining, dissection

Positions of Responsibility

Academic Representative – Biosciences Department, University of Exeter Streatham Campus (December 2023 – August 2024)

“Studying Biology at University” Workshop – Peter Symonds College (July 2024)

Biology Mentor – Peter Symonds College (September 2023 – June 2024)

Responsibilities

- Collating feedback from other students to improve the quality of teaching and learning of the Biosciences Course
- Presenting student feedback to a board of academics, including the Director of education.
- Feedback on the University of Exeter Biosciences ”skills framework” to contribute to the vision of the University towards the skills required for a good Biology graduate, Leading to a change in the assessment structure of second year modules.
- Organizing a Presentation of my experience of first year studies to Upper Sixth students to foster a smooth transition to University
- Answering questions regarding course content, Lab experience and coursework.
- Increasing Lower Sixth students’ comprehension of A-Level concepts
- Management of Lunchtime study workshops
- Feedback on exam answers to past papers to improve exam technique.
- Collaboration with faculty staff to ensure the consistent and high-quality support of Lower Sixth students.
- Promotion of a collaborative learning environment, encouraging peer-to-peer support to contribute to a positive student community within the Biology Department

Other Employment

Shop Assistant – Overton Gallery (November 2021- Present)

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Being an active member of my local community and providing excellent customer service to locals and tourists.

- Raising awareness of the importance of supporting local businesses
- Social Media management
- Placing orders and communicating with suppliers to ensure the quality of products in the shop
- Handling of an Online Shop, including updating products, shipping products to customers. Setting up a chat function within our website so that our customers can contact us quickly and directly through our website.
- flexible and adaptable to a changing business world and identifying the needs of my local community.
- Teamworking and communication