

Wilf Bates

I am a dedicated and analytical student currently pursuing a BSc in Natural Sciences at the University of Exeter, achieving a high first and the Dean's commendation of exceptionalism in my second year. I enjoy applying a broad range of analytical skills to the life sciences, with a focus on numerical methods and machine learning. I am highly motivated to apply my academic learnings to real-world challenges driving innovative solutions and contributing to impactful projects.

Work Experience

Technical assistant • LOW Europe

08 Jul 2022- 07 Jan 2023

- Consultancy that handles clients for the EU commission, I assisted in large projects by gathering information, sending out tweets and publishing articles, as well as providing IT support.

Head Counsellor • Camp Beckett

07 Jun 2023- 18 Aug 2023

- I led a cabin of 8 boys (age 13-15) and 2 staff members, where I was responsible for planning activities twice a day and running classes.
- This required enormous energy and creativity
- Provided invaluable lessons in leadership and team building.

Education

BSc NATURAL SCIENCES, UNIVERSITY OF EXETER

- Natural Sciences comprises an extensive education across Biology, Chemistry, Physics, Maths & Computing. After a thorough grounding in the sciences in first year the second and third years allow for flexibility and specialisation. I have heavily steered the course towards expanding my Scientific Computing abilities.
- obtained a high first(76%) and was the recipient of the 'deans commendation for exceptionalism' in second year.
- Throughout the course I have studied modules such as: Scientific Programming in C(82%), Differential Equations(57%), Numeric's and Simulations(88%), Artificial Intelligence & Applications(77%), Physics of Climate Change(87%) & Physical Chemistry(71%).
- 3rd year group project working on neural network image analysis, experimenting on the complexity of the dataset and varying the hyperparameters of a CNN.
- In this group project, I have assumed a leadership role in the organisation and in the technical work, whilst mentoring the less experienced team members.
- I have also followed my interests that developed in second year by taking the masters module Mathematical Modelling in Biology and Medicine which has given me a deeper understanding of approaches to modelling in the life sciences, with focuses on understanding and constructing numerical models of many biological process in MATLAB and MATCONT.
- I am also taking an applied data science module which is giving me a huge amount of practical experience with the powerful tidyverse library in R.

ALEVELS, GCSE'S: THE LEYS SCHOOL, CAMBRIDGE

Sep 2017- Jun 2021

- A levels: Maths, Physics, Computer Science (AAA).
- GCSE: grade 9 for English Language & Maths

Contact

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Skills

Technical Skills

- 7+ years Python experience
- Strong Mathematical ability
- Applied experience of C, MATLAB, R
- Experience with TensorFlow and other ML libraries
- Data Analytics

Soft Skills

- Communication
- Teamwork
- Technical Knowledge
- Enthusiasm
- Independence

Additional Information

- Currently Vice president of Natural Sciences Society. Implemented many popular events such as wellbeing socials, park-runs and extracurricular lectures
- Volunteered with Raleigh International in Nepal over 10 weeks, we aided in building infrastructure and delivered awareness sessions in rural areas. Always working as part of a team. Provided invaluable experience in planning, leadership & cooperation
- A keen runner, I have raised over £2000 for various charities.
- I was Head of House at school and served on a committee who invited external speakers with audiences up to 200 people. I introduced speakers and lead Q&A sessions.
- In all of these pursuits I improved my leadership, teamwork, communication and organisational skills.