

## William Rochira BSc, MSc

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22/02/1999

*Postgraduate research student with a diverse science background and a particular interest in computational methods.*

### Education

2021 – Present <i>University of Oxford</i>	DPhil – Biochemistry <i>“Development of Quantum Computing Algorithms to Explore Cyclic Peptides”</i> Supervised by Professor Phil Biggin
2019 – 2020 <i>University of York</i>	MSc by Research – Chemistry <i>“Computational validation of macromolecular structural models”</i> Supervised by Professor Kevin Cowtan and Dr Jon Agirre  Computer Science <i>Fundamentals of Machine Learning; graded first class (93%)</i> <i>Machine Learning &amp; Probabilistic Graphical Models; graded first class (89%)</i>
2016 – 2019 <i>University of York</i>	BSc – Biochemistry <i>“Coarse-grained Monte Carlo simulations to probe confined protein diffusion in the Gram-negative bacterial outer membrane”</i> Research project supervised by Dr. Christoph Baumann; graded first class
2009 – 2016 <i>The King’s School, Peterborough</i>	A levels <i>Biology, Chemistry, Physics, Mathematics</i> Grades: AAAA

### Research Experience

2019 <i>University of York</i>	Programmatic fitting and analysis of high-noise atomic force microscopy data With Dr. Christoph Baumann and Dr. Lotte van Beek
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### Publications

2020 <i>University of York</i>	Iris: interactive all-in-one graphical validation of 3D protein model iterations William Rochira and Jon Agirre
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### Professional Experience

2020	Technical Business Analyst at Acturis Ltd.
2014 – 2020	Software developer and web developer at Traintaxi Ltd.

### Conferences

June 2022	2nd Oxford-IBM Alliance Symposium – Poster <i>University of Oxford</i>
January 2021	CCP4 Study Weekend – Presented <i>Virtual Conference</i>
January 2020	CCP4 Study Weekend – Attended <i>East Midlands Conference Centre</i>
September 2018	CFS/ME Research Collaborative Conference – Attended <i>Future Inn, Bristol</i>

### Skills

- Exceptionally proficient in Python and JavaScript
- Familiar with C#, C++, C, R, Java, Swift, PHP, Rails, HTML, SQL, and Bash
- Experience with HPC; having written software for YARCC (SGE) and Viking (Slurm) clusters at UoY
- Native English speaker, and fluent in Italian
- See portfolio at [wrochira.github.io](https://wrochira.github.io) for more details