

William Rochira, BSc (Hons)

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22/02/1999

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

Education

2019 – 2020 <i>University of York</i>	MSc by Research (Chemistry) <i>“Computational validation of macromolecular structural models”</i> Research project supervised by Professor Kevin Cowtan and Dr Jon Agirre Computer Science <i>Fundamentals of Machine Learning; graded first class (93%)</i> <i>Machine Learning & 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

2019 – 2020	Web developer and server administrator at Traintaxi Ltd.
2014 – 2020	Software developer at Traintaxi Ltd.

Conferences

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, MySQL, and Bash
- Skilled in a range of software, including the Microsoft Office suite and Adobe Creative Suite
- 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 for more details