William Rochira, BSc (Hons)

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22/02/1999

Postgraduate research student at the University of York with a diverse science background and a particular interest in computational methods. Highly experienced programmer.

Education

2019 – 2020 *University of York*	MSc by Research (Chemistry) *"Computational validation of macromolecular structural models"* Research project supervised by Professor Kevin Cowtan and Dr Jon Agirre Computer Science *Fundamentals of Machine Learning; graded first class (93%)* *Machine Learning & Probabilistic Graphical Models; graded first class (90%)*
2016 – 2019 *University of York*	BSc (Biochemistry) *"Coarse-grained Monte Carlo simulations to probe confined protein diffusion in the Gram-negative bacterial outer membrane"* Research project supervised by Dr. Christoph Baumann; graded first class
2009 – 2016 *The King's School, Peterborough*	A levels *Biology, Chemistry, Physics, Mathematics* Grades: AAAA

Research Experience

2019 *University of York*	Programmatic fitting and analysis of high-noise atomic force microscopy data With Dr. Christoph Baumann and Dr. Lotte van Beek

Professional Experience

2019 – Present	Web developer and server administrator at Traintaxi Ltd.
2014 – Present	Contracted software developer at Traintaxi Ltd.

Conferences Attended

January 2020	CCP4 Study Weekend *East Midlands Conference Centre*
September 2018	CFS/ME Research Collaborative Conference *Future Inn, Bristol*

Positions

- STYC position at the University of York in both my second and third years, involving a great deal of responsibility, leadership, group-work and conflict resolution. In my final year, my group attained the highest satisfaction rating from our students.

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