

Michael Dommett

 dommett.me  github.com/mdommett  dommett110

Education

2015-present	PhD Theoretical Chemistry, Queen Mary University of London <i>Computational Modelling of Photophenomena in Condensed Phase</i>
2009-2014	MSci Chemistry with Industrial Placement, First Class Honours, University of Glasgow
2003-2009	St Thomas of Aquins High School, Edinburgh

Experience

October 2015 Present	PhD Researcher Theoretical Chemistry, Queen Mary University of London, London <ul style="list-style-type: none">> Use of commercial and open source software to model light-induced chemical reactions using HPC architecture> Development of Python codes (Numpy) using linear algebra to quantify the interaction between electrons> Implementation of algorithms from scientific literature to calculate chemical properties of light-harvesting materials> Data analysis using Numpy, SciKitLearn, Pandas & Matplotlib> First author publications in peer-reviewed journals> Presented work at international conferences> Mentoring of multiple Masters students, leading and guiding them through their projects
October 2014 March 2015	Securities Associate Fund Services, Royal Bank of Scotland, Edinburgh <ul style="list-style-type: none">> Daily cash monitoring of investment fund activity to catch discrepancies between ledger and custody accounts> Development of MS Excel tools for automated analyses of external reports> Liaising with clients to structure incoming data for ease of analysis> Owner of error analysis and continuous process improvement
June 2012 June 2013	Placement Student Modelling & Simulation, Procter & Gamble, Newcastle Upon Tyne <ul style="list-style-type: none">> Industrial placement as part of MSci Chemistry degree> Method development for fabric care innovation using Design of Experiments principles> Developed linear & polynomial regression models of detergent performance> Delivered an innovative robotics platform to screen new detergent formulations> Collaboration across business units, achieving <i>exceeds expectations</i> evaluation and recommendation for hire

Skills

- > Scripting & programming in python, bash & perl
- > Experienced in collaborative code management & development with git & github
- > Quick to absorb new concepts and abstract ideas
- > Demonstrated oral & written communication in technical & lay environments
- > Mentoring and teaching developed throughout PhD
- > Confident leader of complex projects across disciplines
- > Proficient in French & Spanish
- > People skills developed through customer facing roles in retail and hospitality work

Courses & Training

- > Postgraduate course in statistics
- > Two years of undergraduate mathematics including courses in multivariable calculus & linear algebra
- > Training in statistics and modelling at P&G
- > Coursera courses in Machine Learning

Hobbies & Interests

- > Playing football and cooking
- > Travelling - spent three months in South America prior to PhD

References

Available on request