

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

## Skills

- > Scripting & programming in python, bash & perl
- > Five years experience in linux architectures
- > Experienced in code management & development with git & github
- > Experienced MS Office suite, in particular Excel
- > Technical document preparation with  $\text{\LaTeX}$
- > Mentoring and teaching developed throughout PhD
- > Confident leader of complex projects across disciplines
- > Proficient in French, with basic Spanish
- > People skills developed through roles in retail and hospitality industries

## 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

- > Main passion is football, represented Glasgow University 1st XI
- > Cooking, and watching cooking television programmes
- > Travelling - spent three months in South America prior to PhD

## References

Available on request