

Michael Dommatt

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🎓 Education

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|--------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 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

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| 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

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Available on request