

PERSONAL INFORMATION

PROFILE

EDUCATION

SKILLS

- Computation is the core of my work. Over the course of my PhD I have learnt to be proficient in Fortran, bash and the use of OpenMP, git, gnuplot, OriginPro and the SunGrid Engine
- From earlier studies I have learnt to program in C, Python and SCHEME, as well becoming proficient in LaTeX and using the graphical programming application LabView extensively during my Masters project.
- My interest in computers is not just academic; I also upgrade and build computers in my spare time.

Data Analysis	<ul style="list-style-type: none"> • My work creates large amounts of data (up to 70GB per run) which is impossible to manually organise. As such I have had to prepare multiple scripts and procedures to manage the data and extract information in a usable format.
Self Management	<ul style="list-style-type: none"> • Over the course of work towards my PhD, it has been necessary to set my own targets and deadlines, set weekly and monthly goals and manage my time properly to meet my targets. • Have been able to balance the heavy workload of both my undergraduate and postgraduate study with my responsibilities as a parent.
Teamwork	<ul style="list-style-type: none"> • Much of the work over the past few years has required collaboration with others, both within the research group and in other groups in other departments or universities.
Communication Skills	<ul style="list-style-type: none"> • Over the course of my PhD I have presented my work at regional, national and international conferences, as well as at internal seminars and conferences within the department. • Through this experience I have learnt how to explain complex ideas in terms accessible to non-specialists and how to explain and defend my work succinctly and confidently
Adaptability	<ul style="list-style-type: none"> • My flexibility and adaptability was put to the test in starting my PhD, as I had very little experience in chemistry up to that point and was making the move from an experimental specialisation to a theoretical one. Regardless I have managed to progress well in my PhD, developing new skills and enhancing skills gained from my undergraduate degree to complete my work.
Independent Learning	<ul style="list-style-type: none"> • Coming into a post graduate program from a different discipline required me to overcome a steep learning curve to become familiar with the background behind my project, as well as becoming familiar with the tools needed to carry out my work.
Training and Teaching	<ul style="list-style-type: none"> • A complementary role to my research work is helping with the teaching of the undergraduate students. To this end I help with teaching in the undergraduate labs and a weekly workshop for the "Physics for Chemists" first year module. • In the final year of my undergraduate degree I took the module "Physics in Schools", which placed me in a Leeds high school one afternoon a week, where it was my job to run an after school science club for age 11-13 students.

WORK EXPERIENCE

University of Leeds	<i>2012-Present</i>	Post Graduate Demonstrator	School of Chemistry
	Consists of helping and marking the work of second year students in the undergraduate experimental labs and also helping with the teaching of the first year students in the "Physics for Chemists" module		
University of Leeds	<i>2012,2011,2010</i>	Summer Research Student	Experimental Quantum Information
	Worked for two consecutive summers in the Experimental Quantum Information labs on development of a magnetic cardiogram, and in the summer of 2012 worked in the same labs helping a MSc student in the completion of his experimental work.		
J.D. Wetherspoon	<i>09/09 - 01/11</i>	Kitchen Associate	1 City Square, Leeds, LS1 4DS
	Part time position. Required me to work to strict time limits and maintain a clean, ordered and organised working environment		
Handyman Services Ltd.	<i>2009,2008,2007</i>	Skilled Labourer	1 Hawksworth Grv., Leeds, LS5 3NB
	Worked over these summers as a semi-independent contractor on jobs ranging from decorating and plastering to joinery and building. Had to also interface directly with clients and estimate costs and job completion times.		
LBM Direct Marketing	<i>11/07 - 05/08</i>	Level 1 Inbound Sales Agent	Atlantic St., Altrincham, WA14 5FY
	Part time position. Employed on the O2 Inbound Sales Campaign. I mainly dealt with telephone sales enquiries. This required good multi-tasking abilities and improved my aural and verbal communication skills.		
The Woodside Tavern	<i>04/04 - 07/07</i>	Senior Retail Service Staff	299 Low Lane, Leeds LS18 4DD

Full time position. In addition to usual pub work, as a senior member of staff I was required to organise staff, liaise with the kitchen, solve any problems with till operations or cellar issues, train new staff and ensure the restaurant and bar ran smoothly. As such I became highly proficient not just at working in a team but also at heading up my own team

PUBLICATIONS

- Physical Review A* *February 2015* **Coupled-Coherent States Approach for High Harmonic Generation**
Authors: C. SYMONDS, J. WU, M. RONTO, C. ZAGOYA, D. SHALASHILIN, C.F. de M. FARIA
- Journal of Physical Chemistry A* *In Preparation* **Multidimensional quantum simulations of model systems and ab initio first principle quantum direct dynamics of ultrafast photochemistry with Multiconfigurational Ehrenfest approach.**
Authors: D. MAKHOV, K SAITA, C. SYMONDS, D. SHALASHILIN
- Journal of Chemical Physics* *In Preparation* **Multiple Cloning corrections to the Multi-Configurational Ehrenfest approach - application to the Spin Boson Model**
Authors: C. SYMONDS, D. SHALASHILIN

OTHER INFORMATION

- Awards*
- 2012 · University of Leeds School of Chemistry Doctoral Training Grant
 - 2011 · Nuffield Summer Research Scholarship
 - 2009 · Derek Moody Award for Academic Excellence
- Interests*
- Music · Cooking · Running · Reading · “Geekery”

September 1, 2015