

Education and Qualifications

- 2010 – Sept 2013:** **Mathematical Biology & Biophysical Chemistry PhD**
Involving Intelligent Systems and Chemistry
University of Warwick, UK
- 2009 - 2010:** **Mathematical Biology & Biophysical Chemistry MSc**
University of Warwick, UK
- 2005 – 2009:** **Physics: Masters of Physics & BSc with Honours**
University of Leeds, UK. Class II Division I
- 2004 – 2005:** (Gap Year) Working in various temporary jobs
Sept 2002 – 2004: New College, Swindon, Wilts.

3 A-Levels: Physics (B), Maths (B), Chemistry(C)

Computing

3 years working in MATLAB. Some knowledge of C++, also web design. LaTeX.

Work Experience

- Sept 2009 – Sept 2010** University of Warwick – interdisciplinary masters, $\frac{1}{2}$ research.
Summer 2008: University of Leeds – 2-month research project
Summer 2007: Nationwide Building Society Head Office – administration
Summer 2006: Nationwide Building Society warehouse
2004 – 2005: (Gap Year) Data Entry, Print Room, Kitchen Fitting, PC Installation,
Garden Maintenance Work
Aug 1999 – Aug 2002: Delivery Rounds, Fish and Chips shop

Research projects Personal

Currently doing a personal project: making a neural network for currency trading, written in MATLAB. Also learning more C++, mathematical finance, and statistics.

Previously, wrote a genetic algorithm (for curve fitting). Just to learn about genetic algorithms. Written in MATLAB.

Warwick MSc projects

Miniproject 3: Modelling hydrophobin proteins using molecular dynamics.

Miniproject 2: Using Linear Dichroism to investigate antibiotic insertion into lipid membranes.

Miniproject 1: Finding new antibacterial drugs that will not allow the bacteria to evolve resistance.

Leeds undergraduate Physics

Final year physics project: working towards making a quantum computing processor using resonating microwave cavities.

Summer project 2008: studying organic insulators in tunnel junctions (transistors). Using sputterers to grow materials on the nanoscale then look at them using AFM.

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Publications

Submitted: Elucidating protein secondary structure with circular dichroism and a neural network, V. Hall, A. Nash, E. Hines, A. Rodger.