

SCOTT CHARLESWORTH, PhD

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PROFILE

A Chemistry PhD, passionate and highly motivated towards developing a career in data science and Python development. Experienced in scientific research, including the use of computers to collect and analyse data. Driven and excited by the future possibilities presented by the tech-sector, as well as the complex questions it can answer beyond the scale of our own intellect. Currently studying Python and applying it to personal projects. Moving to London to maximise opportunities.

SKILLS

- Experienced in collecting, managing and analysing data sets.
- A creative thinker with excellent problem solving skills.
- Familiarity and understanding of Python, HTML and CSS as well as Unix and Linux.
- Naturally a quick and independent learner, aided by an understanding of learning psychology. This skill enables me to quickly analyse and understand complex scientific models and explain them simply.
- High verbal reasoning IQ with well developed communication skills: verbal, visual and written. Confidently able to speak publicly to large crowds in an engaging manner.
- Hard-working team player, who is also able to work autonomously and under pressure if required.

EDUCATION

Science GTP / Newman College University / January 2012 - December 2011, Birmingham

Graduate teacher training, on the job and based in two different schools - see employment. Teaching allowed me to develop my learning, teaching, management and presentation skills, however, I felt that I was under utilising my scientific training and I missed the satisfaction of producing my own work.

Chemistry PhD / The University of Birmingham / September 2006 - August 2010, Birmingham

Investigating the fabrication of photo-switchable self-assembled monolayers, for use as *in-vitro* models of the Extracellular Matrix and the study of cell migration. The multidisciplinary and novel nature of my research compounded the required degree of problem solving, compared to established and traditional areas of research. Results were unexpected and required the pooling of various data sources to draw conclusions, highlighting my ability to think out of the box. The novelty of nanoscience also meant there was a heavy reliance newer analytical techniques, dependent on computers and algorithms for data collection and analysis (post molecular synthesis and sample preparation). This allowed me to develop an understanding of the importance of computers to research, as well as how to use them. I also gained a wealth of transferable skills, such as proficiency in several computer programmes, familiarity with coding, networking, scientific writing, problem solving, data analysis and even business (extracurricular).

Chemistry BSc / The University of Birmingham / September 2002 - July 2005, Birmingham

Chemistry major with Business modules and a Computational Chemistry dissertation, using Unix and molecular docking to design a drug to treat high blood pressure.

A-Levels and GCSEs / Brynmawr School / September 1994- July 2001, South Wales

A-Levels - Chemistry (A) Maths (A) and Physics (C) | GCSEs - Biology (A) Chemistry (A) Geography (A) Maths (A) Physics (A) History (B) English lit/Lang (B/C) German (C)

EMPLOYMENT (Recent)

Chalet Host / Ski Beat / December 2016 -April 2017, France

Taking a career break to spend the winter snowboarding, managing a 10 guest chalet.

Chemistry Teacher / Bedales / September 2014 - October 2016, Hampshire

Teaching at this prestigious public school allowed me to further develop my teaching skills in an institution that values educational innovation. Core to this role was developing engaging lessons for students whose wealthy/celebrity parents preferred a more relaxed, hands-off style of upbringing, whilst still maximising grades. Management of student performance required a degree of data collection and analysis. I was also responsible for the attainment and wellbeing of my tutees, working with parents and other stakeholders to identify needs. While there, I became the school's only published writer/ teacher accepted for the Huffington Post.

Resort Manager / Ski Beat / La Plagne / November 2013 - May 2014, France

Managing the company's largest resort, of 30 staff and 13 chalets. Extremely busy 'lifestyle' seasonal role with a wide scope, a lot of responsibility and a steep learning curve, making it an enjoyable challenge. The resort was the highest performer of all 7 resorts managed by Ski Beat that year, this was the most successful of all time for that resort. I feel my success was in part due to my analytical approach to management.

Center Manager / School of Training / March 2013 - November 2013, South Wales

Start-up business centered on the provision of employee training and accredited courses such as Health & Safety and Custom Services. Another wide scoping role with a lot of responsibility that allowed me to practise business theory while transferring my teaching skills to an adult environment. Initially the role involved startup management, marketing (including research) website curation and sourcing of freelancers. Subsequently, I managed day-to-day business functions such as sales, marketing, customer services and product delivery.

Science Teacher / Castle Vale School and Oldbury College of Sport/ September 2011 - January 2013, Birmingham

Initial teacher training performed on the job. I taught Chemistry, Physics and Biology and had a degree of autonomy usually reserved only for qualified teachers, making it a steep learning curve, especially given the initial setting of a troubled school.

Scientific Research Consultant and Demonstrator / University of Birmingham / September 2007 - August 2010, Birmingham

a) Part time commercial consultancy work, on multiple projects. I was responsible for collecting, analysing and interpreting data on a variety of samples followed by writing clear and informative scientific reports for both scientists and non-specialist business decision makers. This role required the use of my technical background, network, ability to learn quickly and problem solving skills, in order to quickly build competencies within new research areas and techniques.

b) Part time demonstrator for undergraduate and GCSE students (Outreach).

Founder and Manager / Build Enterprise /October 2007 - January 2008, Birmingham

Secured funding and support to found this social enterprise - an educational and networking events company focused towards new and aspiring entrepreneurs. At the time there was little such support and this enterprise was devised to solve that. This opportunity allowed me to practise and further develop my theoretical knowledge of business and develop other transferable skills such as event management and basic website coding. Support included a mini MBA style training course. I decided to dissolve the company as the workload was interfering with my PhD that took priority. The university has since replicated part of the model.

OTHER

- **Published writer** - Huffington Post and PhD
- **Common Purpose graduate**, leadership programme frequented by management of many FTSE 100 companies. The charity develops leaders to solve problems through innovative channels by collaborating with non traditional stakeholders.
- **Committee Member** of the Chemistry department's Research School Liaison Committee and University wide Graduate School Student Committee, both of which enabled me to represent postgraduates in my department. Part of this role required me to contribute, discuss and help develop suitable solutions to problems faced by the postgraduate student community.
- **Event Manager** - Created, organised and managed a team to host a Chemistry careers day, for over a hundred postgraduate students. I conceived the idea to solve the knowledge gap that Chemistry postgraduate students had about the finer details of career development options. The preceding year there was a university wide adaptation of the model.

HOBBIES

A creative individual and one of life's thinkers. I enjoy writing poetry and like to sketch. Cooking is also something I have a great passion for. I like to keep active, mainly by mountain biking, rock climbing, snowboarding and walking.