

Samuel Winnall

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HIGHER EDUCATION

University of Manchester 07.09.20 – Present
PhD Pharmacy and Pharmaceutical Sciences

University College London 28.09.19 – 10.09.20
MSc Biological Physics, Distinction, 83

Notable Results: Molecular Biophysics (94), Physical Models of Life (94), Genetics Thesis (79)

University of Bath 03.10.16 – 11.07.19

BSc (Hons) Physics, Upper 2.1, 68

Notable Results: Mathematical Methods (84), Medical Physics (74), Neuroscience Thesis (69)

Exmouth Community College 09.07.14 – 11.07.16

A Levels: Maths (A*), Further Maths (A), Philosophy (A) & EPQ (A*); 9 GCSEs: A*/A (incl. French)

PROFESSIONAL EXPERIENCE

AstraZeneca, PhD Collaboration & Secondment, Gothenburg/Cambridge 07.09.20 - Present

- ▶ Performed pre-clinical research and development of designing novel intelligent drug delivery vehicles used in the Moderna and Pfizer-BioNTech COVID-19 vaccines

Institut Laue Langevin, Doctoral Student, Grenoble 07.09.20 - Present

- ▶ Selected as an InnovaXN researcher (1.2% acceptance rate) bringing together the expertise of large-scale research infrastructures with the R&D needs of European industry
- ▶ Awarded €120k to study formation of nano-medicinal delivery vehicles and their interactions with model biomembranes at world leading neutron science facility; French (CEFR) level ~B1

30Technology, Research Assistant, London 03.03.20 - 20.12.20

- ▶ Developed nitric oxide innovation strategy for COVID-19, multi-drug resistant tuberculosis, and malaria through leading weekly meetings, presentations and reports
- ▶ Communicated scientific, market and competitor models to company executives
- ▶ The only intern offered a part-time position; CV screened 2021 intern candidates

Roclin, Strategy Consultant, Zhuhai 05.08.19 – 27.09.19

- ▶ Evaluated business models in Southern China through consultancy reports and meetings with General Manager; assessed geopolitical stability, tax regulation, & incorporation structures
- ▶ Completed Python for finance course and Mandarin Chinese HSK1

Ceryx Medical, Student Researcher, Bath 18.06.18 – 24.08.18

- ▶ Institute of Mathematical Innovation funded researcher in the neuroscience group leading the Horizon 2020 consortium in adaptive bio-electronics for cardiorespiratory disease
- ▶ Emulated neurons through biophysical simulation techniques and nonlinear data assimilation
- ▶ Professional standard of academic report writing & presentations in LaTeX and Microsoft Office

Greenpeace Laboratories, Student Assistant, Exeter 02.06.14 – 08.06.14

- ▶ Presented research on the suitability of a hydroponics versus aquaponics investment in Africa

LEADERSHIP EXPERIENCE

Think Bloomsbury, Co-Founder, London 06.02.20 – Present

- ▶ Launched UCL's first student non-profit think tank focussed on bioethics & medical law policy
- ▶ Directed brand, content and recruitment strategy; thinkbloomsbury.org

UCL Physics Dept., Faculty & Lead Representative, London 21.11.19 – 10.09.20

- ▶ Elected liaison between students and university faculty, key role in developing COVID-19 policy

WorkAway, Hostel Events Coordinator, Yangshuo 01.08.17 – 20.08.17

- ▶ Translated between Mandarin, French and English while leading rock climbing and tie-dying activities at a partnered local summer school, and front of house in hostel restaurant

International Volunteers HQ, English Teacher, Xi'an 18.06.17 – 14.07.17

- ▶ Increased inter-personal and linguistic skills through creative English classes (≤100 students)

AWARDS, PUBLICATIONS & INTERESTS

Awards: Magnolia Incentive Bursary (£5000), Generation UK Scholarship (£2845), Institute of Mathematical Innovation Grant (£2000), and Friend's Trust Innovation Grant (£151)

Publication List: 2 peer reviewed manuscripts; ORCID - <https://orcid.org/0000-0002-6847-4670>

Interests: Living with Shaolin monks in China, theatre productions of Jekyll & Hyde, Yes Theory