

Patrick Lewis BA MSci

151 Manor Green Road, Epsom, Surrey KT19 8LL

Tel: +44 7771392432

Email: patrick.s.h.lewis@gmail.com

Education

- 2012-16 Queens' College Cambridge: BA MSci Natural Sciences (1st Class)**
Part 3: Physical Chemistry & Data/NLP Project
Part 2: Physical & Theoretical Chemistry, Statistical Mechanics
Part 1: Computer Sciences, Materials Sciences, Chemistry & Mathematics
- 2007-12 Epsom College, Epsom**
A Level: Maths (A*) Further Maths (A) Physics (A*) Chemistry (A*)
AS Level & EPQ: Philosophy of Religion (A) Critical Thinking (A) EPQ(A*)
GSCE: 10 grade A* including Maths, English and IT.

Work / Experience

- 2016-18 Bloomsbury AI: ML Engineer.** Researching & developing propriety cutting edge NLP techniques for question answering & knowledge dissemination. Translating, scaling & maintaining world-leading AI research into production environments.
- 2016-18 Healx Ltd: NLP Analyst** building deep learning models for NER & relation extraction. Creating semantic representations from structured & unstructured data sources. Constructing & analysing biological networks. Building KB completion models to predict & support repurposing drugs for rare diseases.
- 2015-16 MSci Data Science project:** Developing scalable algorithm to model academic research interests, recommend academic collaborations & demonstrate unsupervised chemical concept learning using web scraping, neural embeddings, clustering & network analysis.
- 2014 BAE Systems Applied Intelligence (formerly Detica):** 12-week internship on prototype redesign of mission critical system. Responsible for technology choice, architecture, implementation & presentation to stakeholders.
- 2013 BAE Systems Detica:** 12-week internship on independent research project developing novel modeling software using newly published techniques, to enable more accurate circuit design.
- 2013 Credit Suisse Spring Program:** Training program for a technical role within Credit Suisse I.T. department.
- 2010 Expedition to Zambia:** Renovating village schoolhouse, substantial repair work & weatherproofing.

Relevant Skills

- Coding:** Preferred: Python (Numpy, Pandas, Sklearn, Tensorflow, Pytorch, Gensim, NLTK, sPacy)
Prior Experience: JS, JQuery, HTML+CSS, Java, MATLAB, C#, SML
- Additional:** L^AT_EX typesetting, Gephi network suite, AWS EC2 & S3, Familiar with Mac OS X, Linux & Windows, SC vetted & cleared in 2013 & 2014, Full UK Driving Licence

Awards and Commendations

- Cambridge University Department Prize for "Outstanding Master's Project" (2016)
- Queens' College Foundation Scholarship & Paul W Davies Prize for Chemistry (2016)
- Ranked 1st = intern at Applied Intelligence (2014), EAL Certificate of "Commendable" performance at Detica (2013)
- School Debating & Public speaking teams, regional finalists & champions respectively. History, Physics, Chemistry, Extended Project & academic excellence awards. (2008-2012)

Teamwork / Leadership

- President of Milner Society (2014-15): Society for all science-subject students at Queens' College (\approx 130 students). Managed tutoring workshops, many social events & worked closely with college staff.
- President of Queens' Rugby Club (2014-15): Managed budget, training, social events, safety, kit & administrative duties.
- Head of House (2011-12): Responsible for welfare of 70 pupils, efficient running of house & managing prefect team.
- President of Epsom College Young Cooperatives (2010-11): Led group of 20 teenagers in money-raising schemes for charity, including holding large social events & producing a calendar.

Interests and Travel

- Play classical & electric guitar. Performed main parts in 4 plays.
- Travel: Backpacking in Vietnam & Europe (2015), Interrail across Europe (2012). Rafting & hiking through Grand Canyon, USA (2011). Expedition to Zambia (2010)