Patrick Lewis BA MSci

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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

2018-   **FAIR PhD Student**: Affiliated with University College London and Facebook AI Research. Exploring techniques to better exploit "external" language / knowledge in neural NLP systems

2018-18   **Bloomsbury AI**: ML Engineer. Researching & developing cutting edge NLP techniques for question answering & knowledge dissemination. Translating & scaling 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 KBC models to predict repurpose-able drugs for rare diseases.

2015-16   **MSci Data Science project**: Developing novel algorithm to recommend academic collaborations & demonstrate unsupervised scientific concept learning using web scraping, neural embeddings & 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
Other:	LATEX 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)