MITCHELL WATTS

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EXPERIENCE

Data Science Contractor

proquo ai

Feb 2020 – Ongoing London, UK

- Literature review and proof of concepts for automatic brand taxonomy creation.

Data Science Intern

Signal AI

Aug 2018 – Oct 2018 London, UK

- Worked to bring Data Science insight to empower the Marketing team by creating solutions required to process >1 million documents on a laptop.
- Detecting changes in language in the news. Achieved using a temporally aligned word embedding approach.
- Information Retrieval (IR) problem to generate ranked lists of news stories.

Assistant to London Programme Director

Educational Programmes Abroad

July 2012 – Jan 2019 London, UK

PROJECTS

- Sentiment Analysis Explainer - `sentiment.cf/` - (available only 11:00-15:00 Mon-Fri GMT). Deployed using AWS.
- Matt Damon/Mark Wahlberg image classifier - `damonnet.ml/` - A toy project using FastAI to classify Mark Wahlberg or Matt Damon. Deployed using AWS.
- Thunderfit for Raman spectroscopy data analysis - Published on PyPi: `pypi.org/project/thunderfit/`.
- More projects and details are available at: `mitchcwatts.com/#work`

EDUCATION

Nanomaterials Physics PhD

UCL

Sep 2015 - Mar 2020 London, UK

Publication: Watts, M. C. *et al.*, Production of Phosphorene Nanoribbons, Nature, 568, 216–220 (2019), `doi.org/10.1038/s41586-019-1074-x`

MPhys Physics

UCL

Sep 2011 - May 2015 London, UK

- Average marks: 85%.
- Received one of 31 Dean's list awards in UCL-wide graduation year (>4000 students).

A *(As)* Levels

Brentwood County High School

Sep 2009 - May 2011 Brentwood, UK

Physics **A***, Maths **A**, Chemistry **A**, (*Biology* **A**, *Further Maths* **C**)

LANGUAGES & PACKAGES

ABOUT ME

I'm a physicist with a strong academic record, looking to break into a career in machine learning. I'm passionate about data and analysis, with a particular interest in machine learning techniques and NLP specifically. My motivation is demonstrated by having taught myself numerous courses whilst completing a PhD in nanomaterials, as well as undertaking an internship and completing several small projects.

SELF-TAUGHT COURSES

- Coursera - *Machine Learning*.
- Berkley - *CS61A (Python comp-sci course)*.
- Fast.AI - *Course V3*.
- Fast.AI - *NLP*.
- O'Reilly - *Hands-On Machine Learning with Sckikit-Learn, Keras and TensorFlow, 2nd Edition*.
- Stanford - *Algorithms: Design and Analysis (partially completed)*.
- MIT/EDX - *Introduction to Probability - The Science of Uncertainty (partially completed)*.
- Coursera - *DeepLearning.AI (Sequence Models module)*.

UCLU SOCIETIES

Co-Founder & Treasurer

UCL Brazilian Jiu Jitsu

Nov 2013 – Jun 2015

- Co-founded club, requiring extensive paperwork, fund-raising and organisation.
- Founded a volunteering programme within the society.

Head of Events

UCL Muay Thai Society

Apr 2013 – Aug 2014

- Organised a new competitive event in 2014 for UCL Varsity series.
- Organised international club tour in 2014, including travel and training provisions.

INTERESTS

Bouldering | Cinema | Cooking | Football | Cycling | Running

Python (2.5 years) Numpy Scipy Pandas Matplotlib Scikit-Learn
tf.Keras TensorFlow PyTorch AWS FastAI Spacy MATLAB
LaTeX