MITCHELL WATTS

mitchcwatts.com

EXPERIENCE

Data Science Contractor

proquo ai

Feb 2020 - Ongoing

♀ London, UK

• Constructing a knowledge graph to infer a brand taxonomy.

Data Science Intern

Signal Al

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

♀ 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 FastAl 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

♀ 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

♀ Brentwood, UK

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

LANGUAGES & PACKAGES

Python (2.5 years) Numpy Scipy Pandas Matplotlib Scikit-Learn

tf.Keras TensorFlow PyTorch AWS FastAl Spacy MATLAB

LATEX

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

Mov 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

m 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