



# Dmytro Ushchapovskyy

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## Education

**MEng Electrical & Electronic Engineering with Management** | Imperial College London Oct 2016 – Present

**Current Aggregate Result - 2:1**

Specialist modules include:

- Machine and Deep Learning
- Mathematics for Signals
- Algorithms and Data Structures
- Stochastic processes
- High Level Programming
- Optimization

**A-Levels** | Abbey College Cambridge

Sep 2014 – Jun 2016

- Further Mathematics – A\*
- Mathematics – A\*
- Physics – A

**GCSEs** | Wycliffe College

Sep 2011 – Jun 2014

- 11 passes including A\* in Mathematics and Physics.

## Work Experience

**Quantitative Analyst** | Hartree Partners | London, United Kingdom Apr 2019 – Present

- Developing reinforcement learning algorithms for predictive asset optimization and cost reduction.
- Building forecasting models for various parts of the energy markets such as BSUoS and solar generation.

**Tutor** | Fire Tech Camp | London, United Kingdom

Dec 2018 – Present

- Teaching Python, high quality coding practices and computing skills to young students.
- Developed my verbal communication skills and competency-dependent teaching techniques.
- Leading groups through their first complete coding projects.

**Lighting Manager** | Imperial College Union | London, United Kingdom

Nov 2017 – Present

- Delivering services in the student bar and nightclub operating and maintaining the lighting system.
- Improved performance of new and existing staff members by providing comprehensive training.

**DJ and Music Producer** | Freelance | Worldwide

Oct 2016 – Present

- Self-taught DJ and music producer, performing at over 25 events to date.
- Performed at Sysmic Festival Switzerland with over a thousand students, making £400 for the night.
- Other notable nights include Ministry of Sound London and Imperial College Summer Ball.

## Projects

**Brevan Howard Trading Competition 2019 (1<sup>st</sup> Place)** | Personal Project

- The winner of the £10000 grand prize of the seasonal algorithmic trading competition.
- Built environments and reinforcement learning agents that exploited the seasonal nature of the equity markets.
- Learned various reinforcement learning libraries such as stable-baselines and Ray RLlib to speed up prototyping.

**BlackRock Annual Algonathon 2019 (3<sup>rd</sup> Place)** | Personal Project

- In 24 hours, developed generalised single-equity trading environments and reinforcement learning agents.
- Utilised alternative datasets such as Facebook and weather data to extract alpha and beta from the markets.

**Glovoice** | Second Year Group Project

- Project aimed at enabling the deaf community to communicate with those who don't understand sign language.
- Developed a website using Python Flask, coded and integrated a server-side data base using MongoDB.
- Worked with TensorFlow to build a model which predicted the words the user was gesturing.

## Relevant Skills

**Programming Languages:** Python | C++ | C | F#

**Operating Systems:** Linux Ubuntu | MacOS | Windows

**Spoken Languages:** English | Russian

## Other Interests

A keen cross-country runner and an athlete. First half distance marathon completed in 2014 and a full distance one in 2015 in just above 4 hours. Also, a triathlete and an avid cyclist. Looking forward to completing first Olympic distance triathlon in May 2020.