



# Dmytro Ushchapovskyy

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## Education

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

**Current Aggregate Result – Upper Second Class**

Specialist modules include:

- Machine and Deep Learning
- Mathematics for Signals
- Algorithms and Data Structures
- Stochastic Processes
- High Level Programming
- Optimisation

**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.

## Experience

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

- Developed reinforcement learning algorithms for predictive asset optimization and cost reduction.
- Applied signal processing and probabilistic methods to extract insights from a large quantity of data.
- Built 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.
- Developing 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 – Apr 2019

- Delivered services in the student bar and nightclub operating and maintaining the lighting system.
- Improved performance of new and existing staff members and provided 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.

**Bookkeeper and Inventory Manager** | Sempre | Kiev, Ukraine

Jun 2016 – Oct 2016

- Worked within a team for a family shoe shop in Ukraine, managed inventory and photographed products.
- Monitored stock flows, cross-examined with the accounts and investigated anomalies.
- Developed Python scripts for automated account reporting to management staff via email and text.

## Achievements

**Imperial Annual AI Hack - Winner** | Group competition | 2020

- Together with a team designed and built a tool which identified anomalies and their cause in industrial machines.
- Built a variational autoencoder for data generation and anomaly identification using latent representations.
- Developed a web application for real time anomaly prediction and machine monitoring.

**Brevan Howard Trading Competition - Winner** | Individual Competition | 2019

- The winner of the £10000 grand prize of a 3 month long algorithmic trading competition.
- Built simulations and reinforcement learning agents that exploited the seasonal nature of the markets.
- Utilised various reinforcement learning libraries such as stable-baselines and Ray RLlib to speed up prototyping.

**Blackrock Annual Algothon - Runner Up** | Group Competition | 2019

- Third place in a 24-hour Algothon focused on alternative data for alpha and beta generation in the markets.
- Built custom market backtests, market simulations and reinforcement learning agents under time pressure.

## Relevant Skills

**Programming and Query Languages:** Python | C++ | F# | SQL

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

**Spoken Languages:** English | Russian