

# DANIEL HARRIS

## Employment • Experience

### Technology Associate

Morgan Stanley

Jun – Aug 2019 & Aug 2020 – Present

- + Produced a proof of concept machine learning model for automating the flagging of important inbound Firm documents, increasing confirmations department efficiency
- + Deployed a process that prevents loss of business data during production releases
- + (In progress) Migrating tooling UI to modern technology stack, automating the end-to-end deployment process to production, upgrading legacy web service

### Sponsorship Team

Hack Cambridge

Jun 2018 – Jun 2019

- + Communicated and liaised with renowned technology companies in order to generate interest in sponsorship of the University of Cambridge hackathon
- + Managed several contacts and companies during the main event to accommodate requests and ensure smooth running

### Webmaster • Ticketing Officer

TEDxCambridgeUniversity

Jul 2017 – Jul 2018

- + Transformed the event website, working alongside the graphics team
- + Responsible for organising and managing ticket sales for over 200 people, and a mailing list of over 2600 people
- + Introduced speakers and managed timings as the main event host/MC

## Contact Me

+Address 1202 Talisman Tower, London, E14 9BU

+Email 09harrisda@gmail.com

+Mobile +447807192539

+LinkedIn [www.linkedin.com/in/daniel-j-harris/](https://www.linkedin.com/in/daniel-j-harris/)

+GitHub [www.github.com/D-J-Harris/](https://www.github.com/D-J-Harris/)

## Education

University of Edinburgh

2019 – 2020

MSc Artificial Intelligence Distinction

University of Cambridge, St. John's College

2016 – 2019

BSc Natural Sciences, Physics 2.1

St Brendan's Sixth Form College

2014 – 2016

A-Level 4 A\*

Physics • Maths • Further Maths • Chemistry

## References

Available On Request

## Highlights

### Programming

Python • NumPy  
PyTorch • Keras  
Pandas • Jupyter  
Linux • Matplotlib

TensorFlow • C++ • GCloud  
Java • Scala • SQL, DB2  
Qiskit • Angular, Typescript  
Swift (iOS)

### Theoretical

Probability and Statistics  
Data Mining • Computer Vision  
Deep Learning Theory • NLP  
Problem Solving • Physics  
Algorithms and Data Structures

## Projects • Coursework

### MSc Artificial Intelligence • University of Edinburgh

- + Gradient Compression, improving communication in distributed deep learning ([Dissertation PDF](#))
- + Transformers, using BERT to encode sentence embeddings using regression of attention layers
- + Convolutional neural networks, testing and analysis of activation functions and loss landscapes
- + Research Review, robust defences against adversarial attacks in deep neural networks

### Technology Analyst Programme • Morgan Stanley

- + Developing a Spring Boot trading application, integrating RESTful services, a SQL database backend and Angular frontend, working in an agile development team of three people

### AiHack, Imperial College London • Winners

- + Modelled Brooklyn house prices on a dataset of 350,000+ points, through application of machine learning and data analysis. Presented to a crowd of over 200 people

### iOS Application • Make School (San Francisco)

- + Launched an original app to the App Store (currently unavailable) for music sharing that utilises device sensorimotor data, linked Spotify user login workflow (APIs, Firebase)
- + Created an application that is able to analyse a business card photo and add details to the device contacts app. Worked in a team of three developers (CoreML, Firebase)

## Courses • Certification

Google Hash Code 2020 (42<sup>nd</sup> in UK) • UKIEPC 2019 (68<sup>th</sup> in UK)

ICPC Quantum Challenge 2021 (22<sup>nd</sup> Globally out of 246)

Physics and Chemistry Olympiad Round 1 Silver Awards

UKMT Maths Challenge

Multiple Gold Individual Placements • Regional Team and Individual Finals