




# THOMAS HOLLIS

 Dual French/British National

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## EDUCATION

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**University of Toronto** (2018-2020) Toronto, Canada

MSc in Applied Computing (Machine Learning) - GPA: 4.0/4.0

Select courses: Machine Learning & Data Mining, Neural Networks & Deep Learning, Blockchain Eng.

Master Thesis: Machine Learning Forecasting for Financial Fundamentals in Long-Term Value Investing

**The University of Manchester** (2015-2018) Manchester, UK

BEng (Hons) in Electrical & Electronic Engineering - GPA: 84.3% (1<sup>st</sup> Class, top 5% of the class)

Select courses: Digital Systems Design (96%), Mathematics (93%), DMC (92%), C programming (88%)

Bachelor Thesis: Deep Learning Algorithms Applied to Blockchain-Based Financial Time Series (92%)

## WORK EXPERIENCE

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**Team Leader – Bloomberg** (Mar 2022 – Present) London, UK

Earnings Estimates dataset (EEO, MODL products). Managing a team of eight analysts, recruiting, client sales initiatives, internal and external stakeholder collaborations, code reviews, PI & project planning...

**Data Analyst – Bloomberg** (Feb 2020 – Feb 2022)

Equity Corporate Actions dataset (CACS product). Notable projects: dividend extraction automation via NLP (improving publish speed to 50% under 5min), SEDOL entity mapping automation (improving coverage to 99%), restructuring data models, onboarding new stock exchanges, publishing news stories...

Technologies used: Bloomberg APIs, Enterprise Data, BQNT, BQL, Oracle, JSMD/Jira, LSE Datasync

**Machine Learning Engineer – Valsys** (May 2019 – Dec 2019) London, UK

Machine learning research in a fintech startup. Research focussed on machine learning forecasting for company financial fundamentals in long-term value investing (quantamental time series modelling).

**Electronic Engineer Intern – Airbus, MBDA** (Jun-Aug 2016, Jun-Aug 2017) Stevenage, UK

Lead the summer placement team in missile electronics. Designed a comprehensive solution to power distribution architecture issues of defence systems. Details bound by the UK's Official Secrets Act (1989).

## SELECT PROJECTS

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**LSTM Attention** – Investigation into adding Attention to LSTMs in time series (developed, written in Python/TensorFlow)

**HFCrypto** – Deep-learning trading algorithm for cryptocurrency valuation (co-developed, written in Python/TensorFlow)

**RainCrypto** – Multi-cryptocurrency ticker system for the Windows desktop environments (developed, written in Rainmeter)

**ESP-18** – Line following racing bot using autonomous PID control and proximity sensing (built & developed, written in C)

**uClk** – Clock timer embedded system with automated luminosity and temperature sensitive alarm (developed, written in C)

## LANGUAGES & SOFTWARE

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**English** (Native - ILR level 5), **French** (Native - ILR level 5), **Spanish** (Professional - ILR level 3), **Corsican** (ILR level 1)

**Programming** Python, R, C (Proficient); SQL, MATLAB, C++, UNIX/Bash, Assembly (Conversational)

**Tools & Libraries** Git, NumPy, Scikit-learn, Keras/TF, PyTorch (Predilection: Financial Time Series Modelling)

## AWARDS & CERTIFICATIONS

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**Pelmorex Scholarship in Applied Computing**

Addictive Mobility, University of Toronto (2018)

**Bachelor Thesis Project Prize (1st of 250 classmates)**

The University of Manchester (2018)

**NI Engineering Leadership Scholarship**

National Instruments (2016)

**UK National Security Clearance (SC)**

Security Vetting (Defence Business Services/MoD)

**Mitacs Accelerate Fellowship (C\$30,000 grant)**

Canadian Government, University of Toronto (2018)

**BCG Mentorship Competition Winner (top 5%)**

Boston Consulting Group (2017)

**Hackathons & Coding Competitions**

Kaggle (various), Google (2016-2019), MLH (2017)

**Accredited Engineering Technician (EngTech)**

Institution of Engineering and Technology (IET, 2017)

**Interests:** Optimisation, Blockchain, Consciousness, Triathlon, Competitive Swimming, Baroque Piano (Grade 7)