

THOMAS HOLLIS



Dual French/British Nationality

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github.com/PsiPhiTheta



Education

The University of Manchester

Bachelor's Degree (BEng Hons), Electrical & Electronic Engineering, 2015-2018 (GPA: 84%, top 10%)

Best modules: Digital Systems Design II (96%), Mathematics (93%), C programming (88%)

Bachelor Thesis: Deep Learning Algorithms applied to Forex Time Series Modelling

Hockerill Anglo-European College

International Baccalaureate, 2015 (Result: 39/45)

Subjects: HL: French (7) Physics (6) Maths (5), SL: English (7) Chemistry (6) Business (6) +2EE/TOK

Lycée Français Charles De Gaulle

French AS Level, 2013 (Result: A), GCSEs, 2013 (Result: 5 A*, 4 A)

Independent Online Courses (MOOC)

[Stanford] Machine Learning (Coursera)

[Melbourne] Discrete Optimization (Coursera)

[Princeton] Bitcoin & Cryptocurrency (Coursera)

[MIT] Computer Systems Security (MIT OCW)



Work Experience

Software Engineer Intern at ComClever (Fall 2017)

Developed a machine learning solution for predicting optimal stock levels within the PrediStock project. The AI developed was a 3 layer, feedforward neural network with prediction correlation of 0.87.

Electronic Engineer Intern at MBDA (Summer 2016, Summer 2017)

Lead the summer placement team into missile electronics design. Details are confidential and bound by the UK Government Official Secrets Act (1989) and a non-disclosure agreement with MBDA and the Ministry of Defence.

Laboratory Researcher at Institut Jacques Monod/CNRS & University Paris Diderot (Spring 2014)

Independent research in hydrodynamics of Taylor Couettes, data collection and scientific computing.

Laboratory Assistant at Imperial College London (Spring 2012)

Carried out 1st year university practicals on pH buffer action and presented on Personalised Medicine.



Publications

Fardin, M.A., Hollis, T. et. al. (2014) 'Flow instabilities in large amplitude oscillatory shear: A cautionary tale', *Rheologica Acta*, 53(12), pp. 885–898. doi: 10.1007/s00397-014-0818-7.



Languages & Software

English (Native – IRL level 5), **French** (Native – IRL level 5), **Spanish** (Professional – IRL level 3)

Programming C, C++, Assembly, R, MATLAB, Simulink, Python, UNIX/Bash (Proficient)

Windows/Batch, VHDL, LabVIEW, HTML, BASIC, LaTeX, Java (Conversational)



Select Projects

HFCrypto Innovative deep-learning cryptocurrency trading algorithm (in development, in Python)

RainCrypto Cryptocurrency ticker for Windows 10 desktop environment (developed, in Rainmeter)

Altfolio Trading portfolio of ten alt-coin cryptocurrencies (developed, exchanges via Poloniex)

ESP-18 Line following robot embedded system, using PID control (built & developed, in C)

uClk Alarm clock embedded system with automatic light and heat detection (developed, in C)

CloudLight RF controlled smart-light (built, used by award-winning film director Florent Agostini)

Interests: Blockchain, Machine Learning, Data Science, Consciousness, Skydiving, Baroque Piano