THOMAS HOLLIS

🌐 Dual French/British Nationality

✉ thomashollis1@gmail.com

www.thomashollis.com ▶

github.com/PsiPhiTheta

📖 Education

The University of Manchester
Bachelor's Degree (BEng Hons), Electrical & Electronic Engineering, 2015-2018 (<u>GPA</u>: 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 (<u>Result</u>: 39/45)
Subjects: HL: French (7) Physics (6) Maths (5), SL: English (7) Chemistry (6) Business (6) +2EE/TOK

Lycée Français Charles De Gaule
French AS Level, 2013 (<u>Result</u>: A), GCSEs, 2013 (<u>Result</u>: 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 at ComClever (August 2017 - September 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 at MBDA (June 2016, 2017 – August 2016, 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 (February 2014)
Independent research in hydrodynamics of Taylor Couettes, data collection and scientific computing.

Laboratory Assistant at Imperial College London (April 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