THOMAS HOLLIS

Dual French/British Nationality
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github.com/PsiPhiTheta

Education

The University of Manchester (2015-2018) Manchester, UK
Bachelor's Degree (BEng Hons), Electrical & Electronic Engineering, (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 (2013-2015) Stortford, UK
International Baccalaureate, (Result: 39/45)
HL - French (7) Physics (6) Maths (5); SL - English (7) Chemistry (6) Business (6); EE/TOK (+2)

Lycée Français Charles De Gaule (2008-2013) London, UK
French AS Level (Result: A), GCSEs (Result: 5 A*, 4 A)

Independent Online Courses (MOOC)
[Stanford] Machine Learning (Coursera)
[Melbourne] Discrete Optimization (Coursera)
[Princeton] Bitcoin & Cryptocurrency (Coursera)
[MIT] Computer System Security (MIT OCW)

Work Experience

Software Engineer Intern at ComClever (Fall 2017) Lille, France
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 a prediction correlation of roughly 0.87.

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

Laboratory Researcher at Institut J. Monod/CNRS & University Paris Diderot (Spring 2014) Paris, France
Team research in surfactant dynamics of Taylor Couette systems, data collection and scientific computing.

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 – ILR level 5), **French** (Native – ILR level 5), **Spanish** (Professional – ILR level 3), **Italian** (ILR level 1)

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 trading algorithm for cryptocurrency markets (in development, in Python)
RainCrypto	Multi-cryptocurrency ticker system for Windows desktop environments (developed, in Rainmeter)
Altfolio	Trading portfolio of top 10 high-potential blockchain altcoin technologies (developed, via Poloniex)
ESP-18	Line following robot embedded system using autonomous PID controller (built & developed, in C)
uClk	Alarm clock embedded system with automatic light and temperature recognition (developed, in C)
CloudLight	RF controlled smart-light cinematography prop (built, used in award-winning film by Flo Agostini)

Certifications & Awards

BCG Mentorship Competition Winner (top 5%)
Boston Consulting Group
Hackathon Participant
Google (2016, 2017), MLH (2017)
UK National Security Clearance (SC)
Security Vetting (Defence Business Services, MoD)
NI Engineering Leadership Scholarship
National Instruments
First Class Army Cadet
Royal Air Force
The Duke of Edinburgh Award (DofE)
UK Royal Charter, Prince Phillip

Interests: Blockchain, Machine Learning, Consciousness, Skydiving, Competitive Swimming, Baroque Piano (Grade 7)