EDUCATION

University of Oxford | Christ Church

MSc Mathematical & Computational Finance

Sep 2016-Present

- Thesis: Reinforcement Learning in the Algorithmic Trading Domain
- Relevant Coursework: Stochastic Control, Algorithmic Trading, Market Microstructure, Advanced Financial Data Analysis, Optimisation, Machine Learning and Financial C++

University of Surrey

First Class Honours in BSc Financial Mathematics

Sen	2012– Jun	201
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Highest cumulative grade in both Mathematics and Economics Departments with 91%
 Dissertation: The Mathematics of Financial Derivatives
 Processor Statistics

Relevant Coursework:

Dissertation: The Mathematics of Financial Derivatives 97%

Bayesian Statistics 100% Corporate Finance 98%

Operation Research & Optimisation 98% Partial Differential Equations 92%

Mathematical Statistics 92% Stochastic Processes 91%

Research Projects

Algorithmic Trading & Computational Investing

Collaborative Research

• Automating trading system for Forex and combining trade signals with reinforcement learning using Python

Statistics & Financial Data Analysis

Individual Research

• Analysed and created models for house prices, weather, Forex and stocks using Splines, ARIMA and GARCH

Information and Feedback Processing

Summer Research Assistant

ullet Collaborated with Cognitive Neuroscience Professor, was responsible for data analysis and algorithm optimisation

Professional Experience

Commerzbank AG

Summer Internship | Quantitative Analyst | London

Jun 2015-Sep 2015

• Validated structure of exotic equity derivatives

Wrote efficient VBA routines and complied supporting material to optimise daily tasks

Lloyds Banking Group

Placement Year | Data/Risk Analyst | London

Jun 2014-Jun 2015

- Data mining, outcomes testing, random forests and automating daily routines
- Developed an outcomes testing model for mortgages utilising random forests and deep learning
- Designed and implemented a risk assessment toolkit later utilised by the Risk Division

Bloomberg LP

Aug 2014 | Short Internship | Sales & Analytics | London

Raiffeisen Fund Management

Aug 2013 | Off-Cycle Internship | Investment Analyst | Budapest

FINANCE & DATA SCIENCE INITIATIVES

Surrey Economics & Finance Society

Sep 2013 – Jul 2016 | Investment Executive

Stanford University

Machine Learning Summer Workshop by ICME | Stanford, CA

• KNN • SVD • K-means & hierarchical clustering • PCA • NMF • SVM • CART • NN • Text Classification

Coursera & Udemy

May 2012 – Present | Individual Studies

- Machine Learning by Stanford University with 99.6% Recurrent Neural Networks Deep Reinforcement Learning
- Asset Pricing by The University of Chicago with distinction ConvNet Cluster Analysis NLP
- Computational Investing by Georgia Institute of Technology with 100% Black Algo Trading

Award	\mathbf{S}		Programmi	ng Skills
2017	University of Oxford	Full Blues Award	Proficient:	• Python
2016	University of Surrey	BSc Financial Mathematics Award		• R
2016	University of Surrey	Highest Graded Dissertation		• C++
2015	EFS	Elected Investment Executive		• MATLAB
2014	University of Surrey	The Mathematics Department Prize		• VBA
2014	Bloomberg LP	Best Speaker in Debate on Investments	Familiar with:	• IATEX
2013 - 15	University of Surrey	Surrey Top Achievers (Awarded Three Times)		• OCaml

ACTIVITIES & INTERESTS

Basketball Oxford Blues Team (OU) | Varsity Team Captain (SU) | Hungarian Premier League (ZTE)

Interests Short Sprints (100 & 200m), Shot Put, Snowboarding, Volleyball, MMA, Poker, Chess and Rubik's Cubes