Bradley C. Carruthers

brad@securewealth.co.za ♦ github.com/BCallumCarr ♦ bradcarruthers.netlify.com ♦ +44 74140 47748

– Education ————

Masters in Statistics (Research) with Merit

London School of Economics and Political Science

Awards: Commonwealth Scholarship for academic excellence

Thesis: Predicting Community Engagement with Questions in the StackOverflow Online Q&A Community

Subjects: Distributed Computing for Big Data, Quantitative Text Analysis, Algorithms and Computation, Funda-

mentals of Social Science Research Design, Statistical Inference

Honours Bachelor of Commerce (Economics) with Distinction

January '17 - December '17

September '18 - September '19

Stellenbosch University, South Africa

Thesis: Teachers' perceptions of self-efficacy, job satisfaction and learner performance

Subjects: Masters Econometrics, Microeconomics, Macroeconomics, The Economics of Technological Change, Development Economics, Public Economics, Labour Economics, The Economics of Education

Honours Bachelor of Commerce (Statistics) with Distinction

January '14 - December '14

Stellenbosch University, South Africa

Thesis: A Broad Summary of Statistical Process Control

Subjects: Multivariate Methods, Applied Time-Series, Datamining, Biostatistics, Stochastic Modelling, Applied

Stochastic Simulation

Bachelor of Commerce (Mathematical Sciences)

January '11 - December '13

Stellenbosch University, South Africa

Average grade: 75%

Awards: Golden Key International Honour Society membership for academic excellence

Passed Level 1 of the Chartered Financial Analyst Exam

December '15

Chartered Financial Analyst Institute

Work Experience -

Data Science Teaching Assistant (Lisbon)

May 2019 - July 2019

iXperience Pty Ltd - Technology focused education provider

- Enhanced and improved the iXperience data science curriculum to be more practical and instructional
- Demonstrated the full toolkit of data science to talented students from data processing, cleaning and exploratory analysis to natural language processing, dimensionality reduction, clustering and machine learning
- Personally taught classes on cloud computing and distributed data using Google Cloud Platform and PySpark
- Supervised student internships which included telecommunications, hospital & healthcare, digital marketing, retail analytics and tourism
- Received outstanding feedback on the value I added both in the classroom and for iXperience

Data Science Teaching Assistant (Cape Town)

May 2018 - July 2018

iXperience Pty Ltd

- Built and taught a diverse, state-of-the-art data science curriculum as part of a dynamic teaching team
- Presented a full spectrum of data science to students from data wrangling, web scraping, visualisation and software version control to machine learning, deep learning and cloud computing using AWS
- Supervised student internships which included machine learning consulting, travel booking, a digital micro-job platform and a meal ordering and delivery app
- Received outstanding feedback on the value I added to both students and the company

Academic Manager (Cape Town)

February 2018 - August 2018

iXperience Pty Ltd

• Designed and developed cutting-edge courses (including Data Science, Full Stack Coding and FinTech/Blockchain) by implementing research-backed educational practices

- Sourced, integrated and managed highly-skilled Head Teachers and Teaching Assistants to teach courses
- Analysed and actioned key performance indicator data (NPS) from courses to ensure student learning success

Analyst

November 2014 - January 2018

Secure Wealth Pty Ltd - Asset and wealth manager, USD 53 million AUM

- Processed, cleaned and analysed financial data received from investment houses
- Improved the company data management plan, enhanced the confidentiality and digitalisation of client data
- Trained office staff regarding data protection, administration and management
- Managed and oversaw local and offshore investment portfolios for individuals, companies and trusts
- Conducted rigorous market and economic research to provide above-inflation portfolio performance
- Consulted with and advised clients on how to manage their wealth and generate capital growth
- Effectively communicated complex financial concepts to clients and established constructive relationships

Microeconomics Lecturer

January 2018 - June 2018

Stellenbosch University, South Africa

- Lectured on microeconomics concepts to over 350 undergraduate students from across South Africa
- Inspired students and substantially increased their interest in economics as a subject

Pure Mathematics Teaching Assistant

September 2013 - September 2016

Stellenbosch University, South Africa

- Redesigned and enhanced the first year pure mathematics course structure for over 1000 students
- Facilitated correspondence and coordination between academic staff, student tutors and students
- Managed and led a team of 20 tutors for weekly tutorials

Competent:	Conversant:
• Python	• Unix
• SciPy Stack	• Google Cloud Platform (GCP)
• SQL	• Amazon Web Services (AWS)
• Spark	• MS Excel
• Git	• Hadoop
• R	• Hive
• Data Processing and Analysis	• Java
• Machine Learning	• Tensorflow
• Natural Language Processing	• Docker
• Econometrics	• Web Scraping
• Stata	• Statistical Computing
	Personal Details —
Nationality: South African	Languages: English, Afrikaans