Bradley C. Carruthers

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Education

London School of Economics and Political Science

Masters in Statistics (Research) *September '18 - September '19*

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, Fundamentals of Social Science Research Design, Statistical Inference

Stellenbosch University

Honours Bachelor of Commerce (Economics) with Distinction *January '17 - December '17*

Thesis: Teachers' perceptions of self-efficacy, job satisfaction and learner performance: An investigation into the 2004 Grade 6 Intermediate Phase Systemic Evaluation

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*

Thesis: A Broad Summary of Statistical Process Control

Subjects: Multivariate Methods, Applied Time-Series, Datamining, Biostatistics, Stochastic Modelling, Applied Stochastic Simulation, Introduction to R Programming

Bachelor of Commerce (Mathematical Sciences) *January '11 - December '13*

Average grade: 75%

Awards: Golden Key International Honour Society membership for academic excellence

CFA Institute

Passed Level 1 of the Chartered Financial Analyst Exam *December '15*

Work Experience

iXperience - Technology focused education provider

Data Science Teaching Assistant (Lisbon) *May 2019 - July 2019*
Data Science Teaching Assistant (Cape Town) *May 2018 - July 2018*
Academic Manager (Cape Town) *February 2018 - August 2018*

After excelling as a student and community member in the iXperience Cape Town Applied AI course in 2017, I was offered the position of Academic Manager for their 2018 programme. In this role I:

- Designed and implemented research-backed educational practices across a multitude of cutting-edge courses
- Sourced, integrated and supervised highly-skilled Head Teachers and Teaching Assistants to teach courses
- Ensured the success of all classroom learning and student growth

As a Data Science Teaching Assistant in Cape Town I was part of a dynamic team that built and taught a state-of-the-art curriculum, demonstrating the full toolkit of data science to diverse students. I also:

- Directly assisted students with a diverse range of industry problems that they encountered in allocated internships
- Received outstanding feedback on the value I added to both students and the company

SecureWealth - Asset and wealth manager, USD 53 million AUM

Investment Analyst, Financial Adviser *November 2014 - January 2018*

Conducted rigorous market and economic research in order to oversee local and offshore investment portfolios for individuals, companies and trusts. Served in a client-facing role, requiring effective communication of complex financial concepts to assist clients in managing their wealth and generating capital growth.

Stellenbosch University

Economics Lecturer   *January 2018 - June 2018*

I taught microeconomics to over 350 undergraduate students where student and department feedback indicated that:

- I effectively communicated complex economics concepts in a patient and encouraging manner
- I inspired students and substantially increased their interest in economics as a subject

Pure Mathematics Teaching Assistant   *September 2013 - March 2016*

I was privileged to be chosen as the first Teaching Assistant for over 1000 pure mathematics students. Here I:

- Assisted in completely redesigning the first year pure mathematics course to be relevant and more instructional
- Facilitated effective communication between academic staff, senior tutors and students
- Supervised a team of 20 tutors for weekly tutorials
- Lectured groups of 300 students during weekly tutorials - student feedback illustrated I added substantial value

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Technical Skills

Competent: Python, SciPy stack, SQL, Git, R, Data Science, Machine Learning, Natural Language Processing

Conversant: Spark, Java, Cloud Computing (Google Cloud, AWS), Unix Shell Scripting, Web Scraping, Docker, MS Excel, Tensorflow, Keras, Stata, SAS

Personal Details

Nationality: South African   **Languages:** English, Afrikaans