

BRADLEY C. CARRUTHERS

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EDUCATION

London School of Economics and Political Science

Masters in Statistics (Research) with Merit

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

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 student and community member in the iXperience Applied AI course in 2017, I was offered the position of Academic Manager for their 2018 programme. In this role I worked on a multitude of cutting-edge courses (including Data Science, Full Stack Coding and FinTech/Blockchain) and performed the following:

- Designed and implemented research-backed educational practices, ensuring success of learning and student growth
- Sourced, integrated and supervised highly-skilled Head Teachers and Teaching Assistants to teach courses

As Data Science Teaching Assistant 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 and talented 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

Analyst, Financial Adviser

November 2014 - January 2018

I conducted rigorous market and economic research in order to oversee local and offshore investment portfolios for individuals, companies and trusts. I also 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

Microeconomics 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 - September 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, student tutors and students
- Supervised and managed a team of 20 tutors for weekly tutorials
- Lectured groups of 300 students during weekly tutorials - student feedback illustrated I added substantial value

TECHNICAL SKILLS

Competent:

- Python
- SciPy Stack
- SQL
- Spark
- Git
- R
- Data Processing and Analysis
- Machine Learning
- Natural Language Processing
- Econometrics
- Stata

Conversant:

- Unix
- Google Cloud Platform
- Amazon Web Services
- MS Excel
- Hadoop
- Hive
- Java
- Tensorflow
- Docker
- Web Scraping
- Statistical Computing

PERSONAL DETAILS

Nationality: South African

Languages: English, Afrikaans