BRADLEY C. CARRUTHERS

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PERSONAL DETAILS

Nationality: South African	Languages: English (First language proficiency), Afrikaans (Fluency)
Marital Status: Married	Spouse's Occupation: Qualified Occupational Therapist

EDUCATION

September '18 - September '19 — London School of Economics and Political Science
Masters in Statistics (Research)

· Full Funding from Commonwealth Scholarship Committee
· Supervisor: Milan Vojnovic
· Thesis: Predicting Community Engagement with Questions Across Online Question-Answer Fora
· Subjects: Statistical Inference, Algorithms and Computation, Fundamentals of Social Science Research Design, Distributed Computing for Big Data, Quantitative Text Analysis

January '17 - December '17 — Stellenbosch University
Honours Bachelor of Commerce (Economics) Cum Laude

· Supervisor: Dr Debra Shepherd
· 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, Development Economics, Public Economics, Labour Economics, The Economics of Education, The Economics of Technological Change

June '17 - July '17 — iXperience
Applied AI Short Course

· Topics covered: Tensorflow, Natural Language Processing, Multi-Layer Perceptrons, Recurrent Neural Networks, Convolutional Neural Networks, Xgboost, Keras
· Final Project: An Analysis of South African Education Data using Machine Learning Techniques

December '15 — CFA Institute
Passed Level 1 of the Chartered Financial Analyst Exam

· Subjects achieved over 70%: Alternative Investments, Economics, Equity Investments, Ethical & Professional Standards, Fixed Income Investments, Portfolio Management, Quantitative Methods
· Subjects achieved between 50 and 70%: Corporate Finance, Derivatives, Financial Reporting & Analysis

January '14 - December '14 — Stellenbosch University
Honours Bachelor of Commerce (Statistics) Cum Laude

· Supervisor: Dr PJU van Deventer
· 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

EXPERIENCE

iXperience
Data Science Teaching Assistant

June 2018 - July 2018

· Course and culture preparation (content creation, information sessions etc.)
· Assisted with creation of lectures, exercises, quizzes, and projects
· Lectured on data science topics and held workshops

iXperience
Academic Manager

February 2018 - August 2018

· Helped design and implement research-backed educational practices for courses
· Helped manage and onboard Head Teachers to build and teach courses
· Helped manage and onboard Teaching Assistants to support Head Teachers
· Helped manage the success of classroom learning during the iXperience program

Stellenbosch University Department of Economics
Lecturer

January 2018 - June 2018

· Lectured over 300 first-year students on Microeconomics (Economics 114)
· General course administration and coordination, weekly meetings with lecturing team

SecureWealth (Pty) Ltd
Investment Analyst and Financial Adviser

November 2014 - January 2018

· Fundamental analysis, investment suitability, strategic asset allocation
· Economic and market forecasting, research on both local and overseas markets and financial products

Stellenbosch University Mathematics Division
Teaching Assistant

September 2013 - March 2016

· Assisted in redesigning the First Year Mathematics course structure
· Facilitated effective communication between academic staff, assistants and students
· Supervised a team of 20 Mathematics Assistants for weekly Tutorials
· Assisted students during Tutorials

TECHNICAL SKILLS

• Competent: R, Python, Data Science, Data Analysis, Machine Learning, Web Scraping, Amazon Web Services (AWS), Google Cloud

• Conversant: Git, SQL, Stata, SAS, INET Bridge Infront, HTML, CSS

SOFT SKILLS

• Leadership, management, public speaking, networking, communication, training, mentoring

OTHER ACTIVITIES

• *Somerset College Trek:* Lead a group of fourteen Grade 9s for a twenty-seven day hike, cycle and canoe on a 350km journey from Somerset College in Somerset West, South Africa to De Hoop Nature Reserve.

• *Various Talks on Mathematical, Scientific and Philosophical Topics:* Organised talks for First Year Mathematics 114/144 students and others on Mathematical, Scientific and Philosophical subjects at Stellenbosch University, South Africa.

• *Scholar Exchange to Australia* Participated in a 10 week exchange in Grade 10 to Ballarat, Australia.