

DR LIAM STUART

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ABOUT

Data Scientist with an extensive numerical background developed during seven years of a mathematics PhD/undergraduate degree. Strong background in problem solving and producing detail-oriented work with original solutions. Experienced with explaining complicated concepts to a wide variety of audiences through seminars and teaching. Programming proficiency demonstrated through a self-directed data science project published on GitHub.

EMPLOYMENT

Data Scientist, Science to Data Science (S2DS) Mar 2025 - Apr 2025

Worked with a team to develop a proof-of-concept end-to-end pipeline for detecting and classifying counterfeit GUCCI handbags on eBay, with the goal of aiding potential stakeholders such as law enforcement and retailers of luxury fashion items. Main tools included web scraping for data collection, NLP and sentiment analysis for feature engineering, and clustering for classification.

Teacher of Mathematics, ELITE Tuition Sep 2023 - Present

Currently an online mathematics tutor working with A-Level students, aiding them in their studies and furthering their academic development.

Research Fellow in Mathematics, University of St Andrews Sep 2022 - Mar 2023

Research was focused on fractal geometry dimension theory, with a focus on hyperbolic geometry and conformal dynamics.

EDUCATION

PhD in Mathematics, University of St Andrews Sep 2019 - Sep 2022

- Thesis was focused on Sullivan's dictionary viewed from a dimension theoretic perspective.
- Invited to give several talks about my research at various seminars.

MMath Mathematics, University of St Andrews Sep 2015 - June 2019

- Honours Average: 18.0 (Graded on a scale of 1-20).
- Appeared on Deans' List for academic excellence every year.

SKILLS

Programming	Python (Matplotlib, NumPy, Pandas, Plotly Dash, PyTorch, Scikit-Learn, Seaborn, TensorFlow), R (dplyr, ggplot2).
Machine Learning	Knowledgeable about a large range of machine learning architectures and algorithms, including regression, clustering, and gradient boosting.
Other	Git/GitHub, Excel (Lookup Functions, Pivot Tables), LaTeX, SQL, Tableau.
Soft Skills	Critical thinking, Organisation, Teamwork, Communication, Stakeholder engagement.

GITHUB PROJECT

Stock Price Prediction App

An interactive app for predicting the stock price for several different stocks, built using Plotly Dash and TensorFlow. Data is obtained through web scraping, cleaned using Pandas, and then trained on multiple models built in TensorFlow. User can control what stock they would like to predict, as well as the model architecture and years of data they would like to use in training. Published on GitHub.

CERTIFICATIONS

Machine Learning, Stanford University, Coursera.	2024
Deep Learning Specialisation, DeepLearning.AI, Coursera.	2024
IBM Data Science Professional Certificate, IBM, Coursera.	2024

PERSONAL INTERESTS

Playing pool, Stationary cycling, Reading manga, Playing video games, Speed-cubing.