DR LIAM STUART

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ABOUT

Recently finished a postdoctoral research post and looking to transition to a career in data science and machine learning. Proficiency demonstrated through a self-directed data analysis project published on GitHub.

EMPLOYMENT

Teacher of Mathematics, ELITE Tuition   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   2022-2023
- 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   2019-2022
- Invited to give several talks about my research at various seminars.
- Taught multiple tutorial groups and received many positive comments from students about my teaching.

MMath Mathematics, University of St Andrews   2015-2019
- 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.
Other	GitHub, LaTeX , SQL.

SOFTWARE

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

PUBLICATIONS

BAMS	A new perspective on the Sullivan dictionary via Assouad type dimensions and spectra (with J. M. Fraser).
Ann. Fenn. Math.	Refined horoball counting and conformal measure for Kleinian group actions (with J. M. Fraser).
Geom. Dedicata	The Assouad spectrum of Kleinian limit sets and Patterson-Sullivan measure (with J. M. Fraser).