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 stock price prediction app published on GitHub and built with Plotly Dash and TensorFlow.

EMPLOYMENT

Teacher of Mathematics, ELITE Tuition 2023-Present

- Currently an online maths tutor working with A-Level Mathematics 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, TensorFlow), R (dplyr, ggplot2).
Machine Learning	Knowledgeable about a large range of machine learning architectures and algorithms, including neural networks, clustering and gradient boosting.
Other Technologies	GitHub, LaTeX , SQL.

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).