RICHARD DANIEL, Ph.D.

Analyst/Researcher in Applied Mathematics

SUMMARY	
SUMMARI	

With a strong background in physics, I excel in critical analysis, technical communication and numerical modelling. I aspire to transition my skills to a career in analysis, consulting, and research, in a business environment.

richarddaniel@hotmail.co.uk

4 +44 754 567 1841

rdaniel396

• London, W14 9PF, UK

in RDaniel396

SKILLS & STRENGTHS

Data & Statistical Analysis Research Reporting Problem-Solving Methodical Managerial Mathematics | SQL Advanced Excel

EXPERIENCE

Researcher University of Sheffield 09/2019 - 10/2023

- · Undertook scientific research to find new creative and innovative solutions, resulting in three publications.
- · Analysed data using statistical methods to forecast and model new solutions to help problem-solve.
- · Communicated results persuasively, written and verbal, to a diverse audiences using data visualisation.

/ Data & Statistical Analysis / Research

Teacher University of Sheffield 09/2019 - 10/2023

- · Communicated complex mathematical processes and fundamental principles to various individuals.
- Taught undergraduate mathematical classes and organised material in preparation for exams.
- · Volunteered with GCSE and A-level students from disadvantaged backgrounds, allowing for higher education.

Communication / Mathematics / Advanced Excel

Fire Safety Team Leader

Metropolitan Thames Valley

06/2018 - 09/2019

- · Responsible for fire safety compliance for all properties. Managing clients, contractors and finance teams.
- Took compliance from an average of 70% to 100% by designing a new process during the company's merger.
- · Oversaw national fire alarm project, requiring detailed automated reports and careful management of finances.

Reporting / Managerial / Advanced Excel

PROJECTS

Publications Scientific

- · C and Python simulation of gravitational waves, creating mock data that allows a forecast of future statistical constraints.
- Simulated the beginning of the Universe using Python, requiring complex mathematical and dynamical system analysis.
- Data visualisation of the early universe, using statistical methods in Python, allowing for creative problem-solving.

Voluntary Sustainability

- Organised "Energy Switch" persuading the University of Sheffield to use 100% renewable energy, achieved in 2020.
- Led Green Impact Energy team, to problem-solve and determine new creative innovations, using carbon accounting.

Supervisor Teaching

· Supervised undergraduate research projects in applied mathematics. Resulting in a successful new PhD researcher.

EDUCATION -

Ph.D. in Mathematics and Statistics

The University of Sheffield

09/2019 -10/2023

Thesis: "The Bounce, The Bang, The Bounds: Models of Modified Gravity"

B.Sc. and M.Sc. in Theoretical Physics

The University of Nottingham

09/2014 -06/2018

First / Distinction

A-I evels

09/2012 -09/2014 **Andover College**

Mathematics, Physics, Further Mathematics, Chemistry

PUBLICATIONS -

Forecasts on interacting dark energy with standard sirens R. Daniel, E. M. Teixeira, N. Frusciante, and C. van de Bruck

Transitioning from a bounce to R^2 inflation R. Daniel, M. Campbell, C. van de Bruck, and P. Dunsby

Inflation and scale-invariant R^2 gravity R. Daniel and C. van de Bruck

PERSONAL ACHIEVEMENTS

Competed nationally in power-lifting, representing the University of Nottingham. Highlighting personal dedication, motivation and resilience.