

# Dr Rhys Wells, PhD.

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## Personal Profile

A driven data scientist with a quantitative background. Possessing a proven track record of leading data-driven projects from inception to completion, and skilled in communicating complex concepts to both technical and non-technical stakeholders. Adept at getting projects off the ground and delivering them to a high standard, and able to handle multiple ongoing projects. Comfortable exploring and contributing to technical documentation.

### Core Attributes:

- Disciplined
- Open to growth
- Self-sufficient
- Proactive
- Detail-oriented
- Adaptable

### Technical attributes:

- Latex
- Python
- NumPy
- Git
- SQL
- scikit-learn

## Qualifications

### PhD in Mathematics (University of Liverpool)

2019 – 2023

Conducted independent research by utilising software engineering techniques to perform quantitative analysis.

### M.Sci in Mathematics (University of Glasgow)

2014 – 2019

Attained a First Class award and completed advanced courses in Differential Equations and Numerical Methods.

## Work Experience

### Data Analyst at Loch Lomond Rescue Boat

March – May 2024

Led a comprehensive data analysis initiative on preparedness, prediction, and social media impact to optimise operational effectiveness and strategic decision-making. Generated a detailed report highlighting insights and actionable recommendations.

- Interrogated and cleaned databases using SQL queries ensuring dataset reliability.
- Explored the use of machine learning models (Random Forest) to predict incident location.
- Fostered stakeholder collaboration in a data-driven approach to analysis.

### Data Scientist at Science to Data Science (Remote)

February – March 2024

Collaborated with CGG, a geoscience technology services company, to develop a commercial application leveraging Natural Language Processing (NLP), Generative AI, and Large Language Models (LLMs). This initiative streamlined the workflow of CGG's machine learning and data science teams, saving an average of 10 hours per week for team members.

- Managed client expectations by understanding business drivers and project constraints, ensuring project outcomes.
- Collaborated using Git, focusing on code maintainability and future-proofing.

## **PhD Researcher**

**2019 – 2023**

Seized opportunities to enhance learning while actively contributing to the scientific community.

- Developed and implemented novel computational algorithms through iterative experimentation to achieve novel results.
- Led a collaborative research project with the University of Washington, focusing on the development of new mathematical techniques and data analysis derived from applications of code base.
- Presented research at conferences held at Cambridge and Queen Mary London Universities, demonstrating strong communication skills.
- Completed a crash course in deep learning gaining an understanding of neural network in commercial settings.

## **Graduate Assistant (University of Liverpool)**

**2019 – 2023**

Contributed to the delivery of core courses in Statistics and modelling sessions in R, mentoring and fostering student understanding and proficiency in statistical implementation strategies.

- Adapted to technical domains by mastering new tools and methodologies, ensuring delivery of course content.
- Taught advanced statistical and analytical techniques such as regression and properties of distributions, and use of statistical tests to conduct hypothesis testing.

## **Content Creator (University of Glasgow)**

**June – August 2019**

Led a dynamic team in the creation of course materials, ensuring quality, accuracy, and academic standards.

- Established an environment of open communication and collaboration within the team, fostering creativity and idea sharing.
- Implemented agile methodologies resulting in improved efficiency and timely completion of deliverables.

## **Interests and hobbies**

Passionate about endurance activities. I have participated in the Paris Marathon and have embarked on cycling expeditions, including a memorable journey from Glasgow to Paris. Currently, I am dedicated towards training for an Ironman triathlon.