


# James Adams

I'm a driven and detail-oriented career switcher with a passion for data science. With a background in biomechanics, statistical analysis and teaching, I'm looking to challenge myself while putting my data skills to good use.

London, UK   james@jmablog.com   jmablog.com

 <https://www.linkedin.com/in/jmablog>    <https://github.com/jmablog>

## Experience

### Associate Lecturer - Statistics and Research Methods

2022 - Present

*London Metropolitan University*

- Designing and delivering lectures, practical tutorials, and assessments on statistics and research skills for first year undergraduates and Masters degree students
- Instituted and managed a department wide switch to modern statistical applications and their delivery to students

### Chief of Operations

2012 - 2017

*Parkour Generations*

- General management of the company and Chainstore Gym & Parkour Academy facility. Responsibilities included KPI tracking, oversight of financial records and budgeting, staff management, and liaising with local councils, schools, and national governing bodies for bookings

### Enforcements Section Team Leader

2010 - 2012

*HM Courts & Tribunals Service, Royal Courts of Justice*

- Leading on the day-to-day running of the Enforcement Section of the High Court, managing seven staff, workload KPIs, and reporting regularly to Senior Civil Service management and the Judiciary

## Education

### Data Science

2021 - 2022

*General Assembly*

- Data cleaning, exploration, modelling, and analysis in Python using NumPy, Pandas, and scikit-learn, with visualisation in matplotlib and Seaborn

### MRes Sport & Exercise Science (Distinction)

2020 - 2021

*London Metropolitan University*

- Natural Language Processing in R to determine sentimentality in qualitative interview data

### BSc Sports Therapy (First Class Hons.)

2017 - 2020

*London Metropolitan University*

- Force platform data analysis with repeated-measures multi-factorial ANOVA in R
- Received Best Performance and Highest Degree Mark in Subject Group Award

## Skills **Data science**

- Understanding of developing and tuning machine learning models for regression, classification, and clustering problems
- Detailed understanding of qualitative and quantitative research methodology
- Deep appreciation for statistical thinking and the importance of evidence-backed decision making
- Enthusiasm for effective, reproducible research, conveyed through concise narratives and compelling, beautiful visualisations

### **Technical**

- R (*proficient, including Tidyverse and base R approaches, and package development*)
- Python (*including Pandas, scikit-learn, Seaborn, statsmodels*)
- Web (*HTML, CSS, JavaScript*)
- git

## Volunteering **Codebar Python Coach**

*codebar.io*

- Helping beginners learn Python through paired coaching and tutorials, remotely and in-person

## Projects **General Assembly Final Project: Predicting Ultra-Marathon Results**

*<https://github.com/jmablog/ultra-marathons-analysis>*

- Predicting ultra marathon finishing times using Pandas, scikit-learn, and Seaborn

### **tinieR: R package**

*<https://jmablog.github.io/tinieR>*

- Self-taught R language package development, providing learning on R package internals, unit testing, and continuous integration techniques

### **SquatCam**

*<https://squatcam.vercel.app>*

- Real-time joint position feedback for squatting using PoseNet machine-learning algorithm in ml5.js

### **Parkour Clinic**

*<https://parkour.clinic>*

- Personal non-profit project started to continue sports therapy work while studying at Masters level

## Writing and posters

### Journals

#### **Common Parkour Vault Techniques, Landing Styles, and Their Effects on Landing Forces**

2021

*Journal of Sports Sciences*

- Winner of the **Human Kinetics Poster Presentation Award** at BASES 2021 Conference

### Self-published

#### **Using the Expertise of Parkour Coaches to Understand Parkour Movement: The Kong Vault**

2021

*DOI: 10.13140/RG.2.2.33633.02402*

- Qualitative study using interviews with experienced coaches to construct a deterministic model of a movement, including natural language processing for sentiment analysis of interview texts

#### **Pandoc Filters in Bookdown**

2021

*[jmablog.com/post/pandoc-filters/](http://jmablog.com/post/pandoc-filters/)*

- Tutorial post explaining the use of Pandoc's Lua filters feature to manipulate the abstract syntax tree for post-processing of Rmarkdown documents

***References available on request***