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
in https://www.linkedin.com/in/jmablog   ⦿ https://github.com/jmablog

Experience

Associate Lecturer - Statistics and Research Methods
London Metropolitan University   Feb 2022 - June 2022

· 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
Parkour Generations   May 2012 - Feb 2017

· 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
HM Courts & Tribunals Service, Royal Courts of Justice   Jan 2010 - May 2012

· 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 Bootcamp
General Assembly   Nov 2021 - Feb 2022

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

SQL For Data Science Specialisation
UCDavis / Coursera   Apr 2022

· Using SQL to extract, filter, aggregate, join, and analyse data

· Using Apache Spark and DataBricks for distributed computing with Spark SQL

Data Visualisation
freeCodeCamp   June 2022

· Using d3.js to create interactive data driven visualisations on the web

MRes Sport & Exercise Science (Distinction)

Oct 2020 - Oct 2021

London Metropolitan University

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

BSc Sports Therapy (First Class Hons.)

Feb 2017 - June 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)*

· SQL

· Web *(HTML, CSS, JavaScript, d3.js)*

· git

Volunteering

Codebar Beginners Python Coach

2022 - Present

codebar.io

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 inml5js

Parkour Clinic

https://parkour.clinic

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

Writing and posters

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

2021

Journal of Sports Sciences, doi: 10.1080/02640414.2021.1978748

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

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/

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

Learning Statistics with Jamovi

2022

https://jmablog.github.io/jamovi-worksheets/

· Worksheets written to aid in learning statistics with Jamovi at undergraduate and Masters level, made available online and listed on the Jamovi community resources page

References available on request