James Green

✉ JamesTadleyGreen@outlook.com • 🖥 JamesTadleyGreen.github.io
in www.linkedin.com/in/james-tadley-green

Education

University of Cambridge	**Cambridge**
Mathematics, (MASt)	*2018 – 2019*

Royal Holloway, University of London	**London**
Mathematics, (B.Sc.) first class honours	*2015 – 2018*

Awarded the Wynne Roberts prize for "outstanding academic achievement" in both 1st and 2nd undergraduate year
Awarded the Margaret Jackson prize for Pure Mathematics, for "best student in 2nd undergraduate year exam"
Awarded the 2018 IMA Graduate prize for "outstanding performance"

Tiffin School	**Kingston**
A-levels, Further Mathematics, Mathematics, Physics, Economics	*2013 – 2015*

Experience

SMP Group PLC	**2 Swan Road, London**
Data Lead, Technology Development Team	*2021 – Present*

- **Led Internal Automation Project:** Spearheaded and implemented a comprehensive internal automation initiative, resulting in significant labour savings, enhanced throughput, and increased profitability. Collaborated closely with the Managing Director, C-suite executives, and other key stakeholders to ensure timely and effective project delivery.
- **Business Metrics Analysis and Reporting:** Conducted in-depth analysis of key business metrics using data from both the aforementioned automation project and existing, traditional methods. Developed multiple reports and interactive dashboards at all organisational levels. Created and deployed a scheduling system to replace printed job cards, enabling straightforward forward work projections for department heads.
- **Machine Learning and Statistical Analysis:** Applied unsupervised machine learning techniques and Bayesian Inference to establish automatic feedback loops, continuously updating print, pack, and laydown time expectations. This optimisation allowed for efficient temporary labour scheduling.
- **CI/CD Process Development:** Designed and maintained a robust Continuous Integration/Continuous Deployment (CI/CD) pipeline using GitHub Actions. This facilitated automated code deployment and testing on internal servers, improving development workflow and reducing downtime.
- **System Integration and Training:** Successfully onboarded multiple external systems, enhancing overall operational capacity. Led internal training sessions to upskill staff, ensuring seamless adoption and sustained competency in new technologies and processes.

PricewaterhouseCoopers	**7 More London Riverside, London**
Actuarial Pensions, Actuarial Pensions Team	*2019 – 2021*

- **Investment Team**
  - Developed and built out an Asset-Liability modelling solution in PowerBi, allowing a pension scheme to predict impacts such as interest rate shocks, long-term asset return rates, and scheme member demographic changes. Utilising stochastic modelling to offer 1/200 shock scenario generation.
- **Pensions Team**
  - Worked on pension buyouts for clients and was responsible for customised actuarial models that accurately captured the financial impact of pension buyouts on pension scheme members. These calculations were instrumental in several £10m+ deals.
  - Heavily involved in the development of technology across the Pensions Team. This included setting up a mail-merge process that saved c.£10k per member options exercise.
- **Workforce Strategy & Culture**
  - Helped companies navigate complex workforce planning and mobility strategies. Specifically, assisting clients in determining the optimal approach to expanding their workforce, whether through upskilling existing workers or hiring global talent.
  - Created bespoke dashboards; webscraping relevant data such as company reports, analysed an external provider of employee reviews for sentiment, allowing for future planning of employee talent growth.

Insure the Box	**88 Leadenhall Street, London**
Data Analyst, Acturarial Team	*2017*

Proficiencies

Python	●●●●●○
Frameworks: Flask, Celery, Redis	●●●●○○
Databases: SQL, PostgreSQL, SQLAlchemy	●●●●○○
Dashboarding: Dash, Plotly, PowerBi	●●●●○○
Haskell: *(Self-studying)*	●●○○○○

Other Qualifications

Institute of Mathematics & its Applications (IMA): Associate Member (AMIMA)

Grade 5 in Music Theory: Grade 2 in Piano

BSAC Ocean Diver: Over 100 pool dives, and 40 open water dives

Skiing: ESF Bronze award

- References available on request