# **BENJAMEN SIMON**

Data Scientist, PhD

Want to see what I can do? Check out my portfolio.

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#### Languages & Tools: Python|R (R Studio)|Julia|SQL|git|GitHub|AWS|LaTeX|Jupyter Notebooks|Markdown

Technical Skills: Exploratory Data Analysis | Regression (Linear, Multiple-Linear, Polynomial, Logistic, GLM) | Data Visualisation | Hypothesis Testing (T-tests, A/B tests, ANOVA) | Data Pipeline (Cleaning, Wrangling, Modelling, Visualisation, Interpretation) | Simulation | Bayesian Statistics | Markov chain Monte Carlo | Parametric Modelling | Project Management

#### EXPERIENCE

#### Data Lead

Commercialisation of Research from Social Sciences (CRoSS)

Commercialising research ideas into impact driven businesses for the good of community. 0

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Developing a data centric approach to increase the profitability, sustainability, and impact of these growing businesses.

#### Data Science Consultancy

Freelance

Derived actionable insights using event-driven models to simulate customers moving through a multi-centre system. 0

#### Data Scientist

UK Health Security Agency

- Saved 15 hours of work each week and increased reliability by redeveloping and improving a key model of COVID-19. 0
- 0 Predicted vital quantities such as RO, expected cases, and expected deaths each week to inform national policy.
- 0 Led meetings with external stakeholders leading to the on-boarding of two new models to the ensemble methodology.
- 0 Created an environment of openness and growth by spearheading a workshop to allow people to discuss their challenges. Gained experience with docker, command line, git, version control, cloud computing, JIRA, Confluence, Sagemaker, AGILE, teamwork, project ownership, time management, and leadership.

## Graduate Teaching Assistant

Lancaster University

- Led workshops and labs, supported students, and gave feedback for coursework and tests. 0
- 0 Helped non-technical students to understand technical concepts through intuitive explanations.

## EDUCATION

#### Statistics PhD | Lancaster University

Solving complex large-scale big data modelling problems using known methods or developing new methods and tools as needed. Oct 2017 - Oct 2018

#### Statistics MSc | Lancaster University | Distinction (80%)

Relevant modules: Statistics in Practice, Likelihood Inference, Bayesian Inference, Generalised Linear Models, Computationally Intensive Methods, Principles of Epidemiology Environmental Epidemiology, Clinical Trials, Dissertation: Approximate Bayesian Computation. Oct 2014 - July 2017

#### Mathematics BSc | University of York | First with Distinction (85%)

Relevant modules: Statistics I & II, Bayesian Statistics, Applied Probability, Linear Algebra, Multivariate Analysis, Statistical Pattern Recognition, Survival Analysis, Stochastic Processes, Time Series, Dissertation; Simulation study of super-spreading,

#### PROJECTS ଞ LEADERSHIP

#### **Data Science Projects**

- Comparing two treatments using an adjusted analysis (A/B testing, ANCOVA) 0
- 0 Predicting hospital readmission for high-risk infants (Classification, Logistic Regression)
- 0 Spatial analysis of cases of infections (EDA, K-function analysis, Intensity estimation, Poisson generalised additive models)
- 0 Bayesian ridge regression: An overview and comparison to classical regression
- Experiment design

#### President, Teacher, and Community Leader

Lancaster University Swing Dance

- Ran and organised everything from weekly lessons to national 3-day events. Taught classes and trained volunteers. 0
- Increased membership 100%, revenue 500%, activity 100%, and event variety 100% using a data driven approach. 0
- Organised a cohort of new teachers and developed a culture of constructive feedback and mutual growth. 0
- Awarded "Hidden Hero Society of the Year" at the university awards (2022) and nominated for two other awards.

#### Team Captain

- University of York and Lancaster University Pool Teams
  - Four different university college pool teams (and we actually won the last one!)

## AWARDS

- Bayes4Health: New Approaches to Bayesian Data Science project fully funded PhD Studentship (2018). 0
- 0 Royal Statistical Society Prize for 'outstanding performance on an accredited programme' (2018).
- 0 Postgraduate Statistics Centre Prize for 'Excellence in Learning' (highest cohort average) (2018).
- NIHR Studentship (Statistics MSc Full course fees and a ~£15,000 stipend) (2017).
- Kathleen Ryan prize for outstanding performance in final year single subject BSc Mathematics (highest cohort average) (2017). 0

Oct 2017 - Present

## Dec 2022 - Present

Dec 2022 - Present

Jan 2022 – Apr 2022

Oct 2018 - Jun 2022

Oct 2018 - Present

Oct 2018 - Present

