

Dr. Michael Andrew Barrowman, PhD

Data Scientist

Contact

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LinkedIn

Education

PhD, 2016 - 2022
University of Manchester
Mathematics MSci, 2009 - 2013
University of Lancaster

Skills

Coding

R, SQL, SAS, Python, C++,
DAX, bash, VBA

Tools

RStudio, VSCode, PowerBI,
Teradata, Jupyter, Excel, AWS,
git

Data Visualisation/Presentation

RShiny, ggplot, matplotlib,
LaTeX, RMarkdown

Modelling

model validation, linear
regression, logistic regression,
survival analysis, multi-state
models, multinomial regression

Experience

Compliance Manager, The Very Group

Feb 2022 - Present

- Analysed financial and customer data using Teradata SQL, SAS and DAX
- Performed second-line testing and auditing of company processes
- Validated models from methodological and governance perspective
- Extracted compliance monitoring metrics and KPI from customer database
- Designed and maintained a PowerBI dashboard to display key business metrics
- Managed Alation data catalog as a subject matter expert within compliance team

Data Scientist, Mirador Analytics

Jan 2021 - Dec 2021

- Analysed health insurance and medical data using R and python
- Utilised US census data via multiple APIs to analyse demographic data
- Reported on HIPAA compliance within large data samples
- Maintained internal R package, including documentation and testing

Maths, Stats & IT Tutor, LJMU

Dec 2019 - Dec 2020

- Conducted lecture series' on learning R for non-statistics students
- Taught additional courses in SPSS, Word, Excel and nVivo
- Supported undergraduate and postgraduate students with projects and homework

PhD Candidate, University of Manchester

Oct 2016 - Apr 2022

- Analysed medical data using R and C++
- Researched effects and outcomes related to CKD within the current literature
- Developed and validated models predicting outcomes using multi-state models
- Improved current understanding of multi-state models extending survival analysis
- Designed and implemented methodology for improving model validation
- Created an RShiny app to predict patient outcomes

Research Assistant, University of Manchester

Nov 2015 - Sep 2016

- Analysed medical data using R and SAS
- Produced methodological improvements to pragmatic trial literature

Data Analyst, AQA

May 2015 - Sep 2015

- Analysed educational exam data using Excel and VBA
- Modelled result progression from examiner rate of marking
- Implemented grade boundaries based on bayesian statistical inference
- Coordinated with wide variety of teams to disseminate information

Assistant Statistician, University of Manchester

Aug 2014 - Apr 2015

- Analysed medical data using R, Stata and Excel
- Produced standardised datasets for pharmaceutical client
- Composed standard operating procedure documents for internal processes
- Designed probabilistic models for fuzzy data merging of EHR and eCRF data