

Dr. Michael Andrew Barrowman, PhD



Compliance
Manager
Data Scientist

7 Mullins Avenue
Newton-Le-Willows
Merseyside
WA12 0LR
myko101ab@gmail.com
+44 7467 456 803

Professional Profile

- PhD in Medicine (statistics focused) from the University of Manchester in 2022
- Mathematics MSci degree from the University of Lancaster in 2013
- Produced HIPAA Expert Determinations for health analytics institutions
- Maintains multiple R packages (both proprietary and open-source) to highest standard of CRAN acceptance
- Designs parametrised reports and deploys Shiny apps to present statistical modelling results
- Provides statistical expertise to various industries (healthcare, education, etc...)
- Created a curriculum focused on high level statistical education, with a target that students gain understanding of topics and their applications in R and RStudio
- Double-coded analysis scripts in SQL and SAS to ensure reproducibility
- Investigated business intelligence models to provide overall improvement and uncover bottlenecks in work flows
- Proficient in multiple coding languages including Python, C++ and bash
- Expert in business driven softwares such as Excel, Google Sheets and essential AWS infrastructure (EC2, S3, Lambda, etc...)

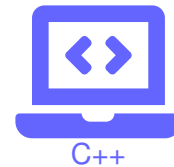
Skills



Statistics



Communication



Data Visualisation



LaTeX



Power BI



HTML/CSS



Excel



AWS

Dr. Michael Andrew Barrowman, PhD



Compliance
Manager
Data Scientist

7 Mullins Avenue
Newton-Le-Willows
Merseyside
WA12 0LR
myko101ab@gmail.com
+44 7467 456 803

Experience

Compliance Manager, The Very Group

Feb 2022 - Present

Analysing financial data and customer records from a second line defense perspective to ensure the company is compliant to legally binding regulations and internal policies. Testing and assessing the production and distribution of internal modelling applications

PhD Candidate, University of Manchester

Oct 2016 - Present

The goal of this PhD is to improve the academic knowledge surrounding Multi-State Clinical Prediction Models (MSCPMs). To accomplish this, I am writing articles to solve methodological issues that are yet to be addressed and applying these novel techniques (along with the present literature) to develop and validate an MSCPM to predict outcomes for Chronic Kidney Disease patients.

Data Scientist, Mirador Analytics

Jan 2021 - Dec 2021

Focusing on health data compliance to ensure the privacy of individuals within the larger healthcare scope. Reporting on data risk of reidentification with expert determinations of disclosure risk and maintaining internal R packages, documentation and data sources.

Maths, Stats & IT Tutor, LJMU

Dec 2019 - Dec 2020

Assisting undergraduate and postgraduate students with Mathematics, Statistics and IT issues relating to their university course, and extending this support to teaching and research staff. Writing and providing tutorial sessions on a variety of subjects and softwares including Microsoft Word, R for Statistics, nVivo for Qualitative Research and SPSS.

Lead Statistician, University of Manchester

Jan 2017 - Feb 2019

Working within the University of Manchester, we formed a team of statistical consultants to assist researchers from all levels of the university with their statistical needs, this included help on specific projects and tutorials on various statistical topics. Our efforts helped educate undergraduate students on basic methods to improve their coursework results and provided lecturers and professors with advice and mentoring to focus their research questions and process their results to produce viable academic outputs.

Research Assistant, University of Manchester

Nov 2015 - Sep 2016

As part of the GetReal consortium, I worked within a multi-national team producing methodological techniques to assist in bridging the gap between efficacy and effectiveness in pragmatic clinical trials. Alongside this methodological work, I was involved in an applied study to assess the generalisability and the risk of a Hawthorn Effect in the Salford Lung Study (SLS), a real-world, pragmatic randomised controlled trial.

Data Analyst, AQA

May 2015 - Sep 2015

Producing business insights and progress reports for examinations results. Co-ordinated with principal and senior examiners to set grade boundaries based on subject-level knowledge and data derived results. Reprised previous administrative responsibilities to assist other teams within the logistics and production group.

Dr. Michael Andrew Barrowman, PhD



Compliance
Manager
Data Scientist

7 Mullins Avenue
Newton-Le-Willows
Merseyside
WA12 0LR
myko101ab@gmail.com
+44 7467 456 803

Publications

Toward a Framework for the Design, Implementation, and Reporting of Methodology Scoping Reviews (2020), GP Martin, DA Jenkins, L Bull, R Sisk, L Lin, W Hulme, A Wilson, W Wang, **MA Barrowman**, C Sammut-Powell, A Pate, M Sperrin, N Peek, Predictive Healthcare Analytics Group

How Unmeasured Confounding in a Competing Risks Setting Can Affect Treatment Effect Estimates in Observational Studies (2019), **MA Barrowman**, N Peek, M Lambie, GP Martin, M Sperrin

Study Investigating the Generalisability of a COPD Trial Based in Primary Care (Salford Lung Study) and the Presence of a Hawthorne Effect (2018), A Pate, **MA Barrowman**, D Webb, JM Pimenta, KJ Davies, R Williams, T van Staa, M Sperrin

Packages



rando The goal of rando is to provide easier generating of random numbers in a manner that is context aware, and reproducible

mutils The goal of mutils is to provide useful functions to make data processing smoother. Most functions contained here are 'nifty', rather than 'innovative'



mpipe The mpipe package is designed to add extra functionality to the pipeline process in tidyverse style R usage

typos Small package to account for typing mistakes when coding in R by converting errors into warnings

