

Sebastian Bate

✉ sebastiangbate@gmail.com  0000-0002-2218-503X  [sgbstats](#)  [/sebastiangbate](#)

Experience

Statistician

Sep 2019-Mar 2021

IQVIA

- I worked with senior biostatistics staff on the evaluation, interpretation, and reporting of study results, including writing the analysis data reviewer's guide for one study.
- I quality controlled regulatory documents including CSRs, summaries of clinical efficacy and safety, prescribing information, and FDA briefing documents for large pivotal studies.
- I assisted in developing study analysis plans, including sample size calculations and mock TFLs across multiple studies.
- I gained experience in applying the principles in ICH E6 (GCP), E9 (Statistics), E9R1 (Estimands).

Junior Medical Statistician

Mar 2021-

Manchester University NHS Foundation Trust

- I have been involved in multiple studies and lead on statistical design and analysis from concept through to dissemination.
- I support all levels of researchers from undergraduate and postgraduate students, through to clinical academics and consultants.
- I have contributed to successful grant applications as a co-investigator and lead statistician (NIHR152516).
- I have been responsible for reviewing the design, statistical accuracy and overall viability of Trust-sponsored research protocols prior to ethics submission in collaboration with senior statisticians.
- I have presented my research at conferences both to technical and clinical audiences [NIHR Statistics Group Conference, 2023 (best e-poster); NHS R Community Conference, 2022; Translation Manchester, 2022 (People's Choice award)], NIHR Statistics Group Conference, 2024 [3rd place].
- I have multiple collaborations with clinicians across the whole of MFT, The University of Manchester, and other trusts.
- I have given multiple talks on statistics for critical appraisal across The Trust to the prestigious Specialist Foundation Program, junior doctors and level 7+ clinical practitioners.
- I have written teaching materials for improving statistical literacy among clinicians.
- I have given guest lectures to undergraduates and apprentices on data literacy at Manchester Metropolitan University (Digital Marketer Degree Apprenticeship, and UG Marketing, Business & Marketing and Advertising & Brand Communications courses).

Education

MMath Mathematics and Statistics

University of Manchester

1st Class

2019

Skills

Areas of interest

Prognostic modeling; Meta-analysis

Personal

I have run a 3:03:45 marathon; I have an Erdos number of 6; This CV was written in Quarto

Languages and certifications

R, inc. Tidyverse (Expert); SPSS (Proficient); SAS (Was proficient, now rusty); NIHR Good Clinical/Statistical Practice; Python (Can debug something but don't like writing it); Quarto (Getting better)

Bibliography

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- [8] A. G. Mathioudakis, S. Bate, P. Sivapalan, J.-U. S. Jensen, D. Singh, and J. Vestbo, “Rethinking Blood Eosinophils for Assessing Inhaled Corticosteroids Response in COPD,” *CHEST*, vol. 166, no. 5, pp. 987–997, Nov. 2024, doi: [10.1016/j.chest.2024.06.3790](https://doi.org/10.1016/j.chest.2024.06.3790).
- [9] B. Oremule *et al.*, “Mobile audiometry for hearing threshold assessment: A systematic review and meta-analysis,” *Clinical Otolaryngology*, no. 1, pp. 74–86, 2023, doi: [10.1111/coa.14107](https://doi.org/10.1111/coa.14107).
- [10] V. Stokes *et al.*, “External validation of a prediction model for CPAP failure in COVID-19 patients with severe pneumonitis,” *Critical Care*, vol. 26, no. 1, p. 293, 2022, doi: [10.1186/s13054-022-04144-4](https://doi.org/10.1186/s13054-022-04144-4).
- [11] R. Doyle *et al.*, “Evaluating the impact of an enhanced triage process on the performance and diagnostic yield of oesophageal physiology studies post COVID-19,” *BMJ Open Gastroenterology*, vol. 8, no. 1, p. e810, 2021, doi: [10.1136/bmjgast-2021-000810](https://doi.org/10.1136/bmjgast-2021-000810).
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