NICOLA RENNIE

Nicola Rennie is an academic and data scientist, passionate about using statistics to solve problems. She is currently a Lecturer in Health Data Science at Lancaster Medical School, working on time series analysis and applications related to health. Nicola also has experience in data science consultancy, and collaborates closely with external research partners.

Employment

Lecturer in Health Data Science.
Lancaster University, Lancaster, UK. *Apr 2023 - Present*.

Data Scientist
Jumping Rivers, Remote, UK. *Nov 2021 - Apr 2023*.

Mathematical Consultant
Smith Institute, Oxford, UK. *Aug 2021 - Nov 2021*.

Graduate Teaching Assistant
Lancaster University, Lancaster, UK. *Oct 2018 - Jul 2021*.

Education

PhD in Statistics and Operational Research
Lancaster University, Lancaster, UK. **2021**
Thesis: Detecting demand outliers in transport systems

MRes in Statistics and Operational Research
Lancaster University, Lancaster, UK. **2018**

BSc(Hons) in Mathematics
University of St Andrews, St Andrews, UK. **2017**

Selected publications

Analysing and visualising bike sharing demand with outliers.
N. Rennie, C. Cleophas, A. M. Sykulski, F. Dost
Discover Data. Volume 1, Issue 1. March 2023. doi.org/10.1007/s44248-023-00001-z

Identifying and responding to outlier demand in revenue management
N. Rennie, C. Cleophas, A. M. Sykulski, F. Dost
European Journal of Operational Research. Volume 293, Issue 3, 16 September 2021, 1015-1030. doi.org/10.1016/j.ejor.2021.01.002

A full list of publications and conference presentations is available on my website: nrennie.rbind.io

Notable awards

Finalist of the 2021 Statistical Excellence Award for Early-Career Writing.
Significance and the RSS Young Statisticians Section. July 2021.

Nick Smith Prize for Research Excellence.
Lancaster University. August 2020.