

NICOLA RENNIE



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SKILLS

- 🕒 Time management
- ✍ Writing technical reports
- 👥 Presenting research
- 📊 Data analysis
- 📖 Research methodology
- 🏢 Industrial collaboration

PROGRAMMING

R	● ● ● ● ●
Python	● ● ● ● ●
LaTeX	● ● ● ● ●
R Markdown	● ● ● ● ●
HTML	● ● ● ● ●
CSS	● ● ● ● ●

LANGUAGES

English	● ● ● ● ●
Italian	● ● ● ● ●
German	● ● ● ● ●

PROFILE

With a diverse quantitative background, I am passionate about using mathematics to aid in better decision-making. Throughout my PhD, I have ensured my research has genuine impact by collaborating with Deutsche Bahn, Lufthansa, and Swiss Air Lines. I am currently looking for a challenging new role where I can continue to utilise my analytical skills to influence decisions.

Research areas: Revenue management; Classification; Simulation; Forecasting; Outlier detection; Functional data analysis; Optimisation.

EDUCATION

PhD Statistics and Operational Research

- 📅 Oct 2018 – Present 📍 Lancaster University, UK
- Thesis: *Data-driven Alerts in Revenue Management*. Developing statistical methods to highlight deviations between real-world observations and the expected behaviour of revenue management systems.
 - Nick Smith Prize for Research Excellence. August 2020.

MRes Statistics and Operational Research, *Distinction*

📅 Oct 2017 – Oct 2018 📍 Lancaster University, UK

BSc(Hons) Mathematics, *First Class*

📅 Sep 2014 – Jun 2017 📍 University of St Andrews, UK

EMPLOYMENT HISTORY

Graduate Teaching Assistant

- 📅 Oct 2018 – Present 📍 Lancaster University, UK
- Tutoring workshops in both Management and Statistics at undergraduate and postgraduate level. Modules include: Time Series Analysis, Statistical Methods for Business, and Spreadsheet Modelling for Management.
 - Associate Fellow of the Higher Education Academy (Advance HE)

PUBLICATIONS

Identifying and Responding to Outlier Demand in Revenue Management
Rennie, N., Cleophas, C., Sykulski, A., Dost, F. 12/12/2019
Pre-print: arxiv.org/abs/1912.05974

CONFERENCE PRESENTATIONS

- STOR-i Workshop on Prediction and Optimisation. (CANCELLED) Lancaster University. April 2020.
- STOR-i Annual Conference. Lancaster University. January 2020.
- Lancaster University Management School Research Conference. Lancaster University. September 2019. (Poster - 3rd place)
- European Working Group on Pricing & Revenue Management. Erasmus University Rotterdam. August 2019.
- 30th European Conference on Operational Research. UCD. June 2019.
- STOR-i Annual Conference. Lancaster University. January 2019.