

Jack Kennedy

Newcastle Upon Tyne, United Kingdom
PhD Student in Bayesian Statistics with application to renewable energy

🌐 [jcken95.github.io](https://github.com/jcken95)

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EDUCATION

PhD Statistics

Uncertainty Quantification in Complex Energy Systems Models

Newcastle University, UK

September 2022

Master of Mathematics and Statistics (First Class)

A Statistical Approach to Product Costing (work with Nissan)

Newcastle University, UK

June 2018

KEY SKILLS

Statistics

- Bayesian Inference & Applied Statistics
- Gaussian Process Regression
- Uncertainty Quantification

Programming

- R and Rstudio
- MATLAB
- Stan

Computing

- \LaTeX
- Linux
- Git & GitHub

ACADEMIC PROJECTS

PhD Thesis

Sept 2018 - Ongoing

- Developing novel statistical methodology to analyse stochastic computer experiments.
- Using complex stochastic computer models and emulators to enhance decision support for large offshore wind projects.

Master's Thesis

Sept 2017 – May 2018

- Collaborated with accountants from Nissan Motor Corporation to enhance the product costing process of their vehicles.
- Applied machine learning/data visualisation methods for error detection in complex databases.
- Final result included a predictive model to cost vehicles, saving hundreds of hours per year and allowing product costing data to be updated monthly rather than annually.

TEACHING AND LEARNING

- Mathsaid Tutor; providing one-to-one support in mathematics & statistics for non-MSP students from 2018 onwards.
- NUMBAS assistant; transferring exams to an online format during Spring 2020.

- Provided support for a range of statistics modules at Newcastle University ranging from assisting in computer labs to leading tutorials and lectures; MAS1801, MAS2901, MAS2093, MAS3901, MAS3902, MMB8100.

EXPERIENCE

- Organiser, Postgraduate Forum 2019–20.
- Chair of Maths & Stats Student-Staff Committee 2017–18.
- Committee member of Young Statistician's Section of the Royal Statistical Society 2020 onwards.

AWARDS AND ACHIEVEMENTS

- Prize Winner - Best Talks of The Research Students' Conference.
- Royal Statistical Society Prize for Outstanding Academic Achievement 2018.