

# Dr. Jack Kennedy

STATISTICIAN | DATA SCIENTIST | EDUCATOR | ALL-ROUND-NERD

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## Professional Summary

I am a PhD educated statistician and data scientist with experience in data science consultancy and training. I love telling stories with data, working with technology, and finding data-driven solutions to challenging problems.

## Experience

### Jumping Rivers

DATA SCIENTIST

Jan 2023 - Today

- Provide statistical consulting services to a broad range of clients
- Software development: contribute to production-ready R packages; unit testing; CI/CD
- Teach statistical and programming concepts in R with best practices front and centre to academia, industry and government
- Organise the 'North East Data Scientists' meetup

### NU Solve

DATA SCIENTIST (INTERN)

Jan 2022 - Apr 2022

- Collaborated with NU Solve, Jumping Rivers and the Food and Agricultural Organisation (UN)
- Developed a model-based clustering approach to diagnose the sustainability of fish populations across the world
- Developed a bespoke R package to provide FAO with the tools to take the developed methods forward
- Provided a rapid scoping project for a large automotive manufacturer

### Newcastle University

GRADUATE TEACHING ASSISTANT

Oct 2018 - Dec 2022

- Providing one-to-one support via the university Maths-Aid service to students; queries ranging from 'How to calculate a percentage?' to 'Which test is most appropriate for my data?' and 'How to solve this differential equation?'
- Provided maternity cover for senior tutor: triaging and delegating Maths-Aid appointments
- Delivered lectures to undergraduate students on statistical topics
- Marked coursework in a timely manner

## Education

### Newcastle University

PHD STATISTICS

2018 - 2023

- Thesis: Uncertainty Quantification for Stochastic Simulators with Application to Offshore Wind Farms
- Applied and developed Gaussian process based techniques to improve the efficiency of stochastic simulation experiments
- Research themes: Bayesian methods; Decision Analysis; Bayesian Optimisation; Emulation; Gaussian Processes
- Published in a leading Statistics journal

### Newcastle University

MMATHSTAT (FIRST CLASS)

2012 - 2018

- Thesis: Multivariate Statistics & Machine Learning: An Application to Product Costing in Nissan
- Studied a range of mathematical and statistical topics: regression & statistical modelling; Markov models; time series; queuing theory; extreme value theory; flexible regression

## Technical & Professional Skills

R PROGRAMMING

- Developed production-ready R software and packages as part of a team. Confident with base R and the {tidyverse}

STATISTICS & MACHINE LEARNING

- Bayesian methods, linear and non-linear regression, Bayesian optimisation, clustering, classification, inference, prediction

COMMUNICATING

- Award-winning speaker with over 5 years teaching experience
- Produces professional, reproducible documents with R Markdown and Quarto
- Writes technical yet accessible content and documents

#### SOFTWARE DEVELOPMENT

- Linux, Git, CI/CD, Command line

#### OTHER LANGUAGES & SOFTWARE

- LaTeX, Stan, MATLAB, SLURM

## Extra Curricular & Service

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### Royal Statistical Society

#### FELLOW & VOLUNTEER

2019 - Today

- Active member of the Royal statistical society; organised a variety of in-person and online events
- Member & Chair of the Young Statisticians Section; promoting statistical careers early-career statisticians and data scientists
- Treasurer for North Eastern Local Group

### Projects & Online Activity

#### THINGS I DO BECAUSE I LOVE STATS, DATA AND COMPUTERS

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- Participate in #TidyTuesday data visualisation challenge; see github profile for portfolio.
- Top 5% overall contributor on Crossvalidated. As of September 2023 I have 2678 reputation and 26 badges.

## Interests

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#### PROFESSIONAL

- Supporting early-career statisticians and data scientists, Bayesian methods, visualisation & communicating statistics, modelling, reproducibility

#### PERSONAL

- Cycling, hiking, running, being outside