

Jonny Evans

Theory

- Deep learning
- Reinforcement learning
- Random forests
- Clustering
- Regression
- Bayesian networks
- Statistics
- Optimisation
- Graph theory

Communication

- Presentations
- Technical and academic writing
- Conducting interviews and surveys
- Stakeholder engagement
- Cross-discipline collaboration
- Negotiation
- Leadership

Work Experience

Data Scientist, Algorithms, Deliveroo. (September 2019 – present).

Graduate Consultant in Intelligent Transportation Systems, WS Atkins plc. (September 2015 - June 2016).

- Worked on the Data Science team to build a Visual Basic for Applications (VBA) based Excel model of household recycling for Hampshire County Council policy advisors.
- Head of stakeholder engagement for a feasibility study regarding the deployment of 'temporary' electric vehicle (EV) rechargers across the U.K. for Highways England. Tasks included:
 - Conducting interviews.
 - Organising, presenting and debating at meetings with key stakeholders.
 - Case study research (online, by phone and by site visit).
 - Co-authored the final report to Highways England, which was subsequently [published](#).
- Managed a team of graduates and apprentices to monitor CCTV cameras for a project that assessed the use of Smart Motorways in the U.K.
- Conducted analysis to find the optimal locations to implement ramp meters in North Carolina, U.S.A., based on safety, traffic and geometry data. Co-authored the final report to the North Carolina Department of Transportation, which recommended the 30 most suitable ramp meter locations for implementation (of 249 candidate locations).
- Developed bids for work, which included orchestrating colleagues from many different disciplines of the company.

Intern, Cirrus Logistics Ltd. (June/July 2014).

Tested and developed software that optimised the scheduling of shipping berths.

Education

Machine Learning PhD, Transportation Research Group, University of Southampton, U.K. (July 2016 – Present).

Funded by EPSRC and Siemens Mobility Limited. Experience included:

- Developed machine learning algorithms for road traffic forecasting and incident detection.
- Trialled the algorithms in Bristol Council's Traffic Management Centre. Involved developing a web app that displayed alerts to

Programming

- Python (3 years)
- C# (1 year)
- MATLAB (1 year)
- Visual Basic (1 year)
- SQL (1 year)
- Spark (1 year)
- JavaScript (1 year)
- Git, GitHub (2 years)
- LaTeX (4 years)

Data science libraries

- Scikit-learn (3 years)
- TensorFlow (1 year)
- Keras (1 year)
- NumPy (3 years)
- Pandas (3 years)
- Matplotlib (3 years)

operators in real-time, which improved their ability to detect incidents.

- Implemented the algorithms within Siemens' software products. This involved pitching, writing successful bids, cross-discipline collaboration, and pair-programming with a lead architect.
- DfT awarded £50,000 funding for research into understanding congestion using the traffic forecasting algorithm. This involved advising two interns and an MSc student.
- Interviewed Traffic Management Centre managers and operators on the state of incident detection in the U.K.
- [Published](#) two articles in leading transportation journals, attended and presented at two global academic conferences.
- PhD featured in University's [Re:action](#) magazine (page 13).

BSc Mathematics, University of Birmingham, U.K. (2012-2015).

First class honours. Experience included:

- Final year research project, entitled 'Google's PageRank algorithm', won the Blackburn prize for highest mark in graduating year group.
- Social Secretary of the University of Birmingham tennis club, which included negotiating the purchase of new tables for the club.

Personal

- Building up a portfolio of data science pet projects on [Kaggle](#) and [GitHub](#). Including:
 - A VBA based Excel add-in named [SymbolFix](#), which auto-formats engineering symbols to save engineers time. It is still being used regularly today by ex-colleagues at Atkins.
- Keen follower of [Effective Altruism](#).
- Played table tennis since the age of nine, with a highest ranking of 2nd in England in under 13s. Coached players of various ages and abilities.