Aidan Boland PhD

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Employment

2016 - Present **Data Scientist**, Clavis Insight, O'Connell Bridge House, Dublin 2.

Researching and implementing various statistical methods for use within eCommerce insights and analytics.

Researching methods to improve the data flow and reduce manual processes around data handling. Writing R code to implement the improvements in the data processing. Supervising and delivering statistical analysis projects for clients.

2016 **Lecturer**, University College Dublin, Belfield, Dublin 4.

Lecturing an online undergraduate module in the School of Mathematics and Statistics titled 'Practical Statistics'.

This involved creating and delivering lectures, creating and grading assignments and exams, and co-ordinating tutors for computer labs in Minitab and R.

2015 - 2016 **Postdoctoral Researcher**, University College Dublin, Belfield, Dublin 4. & Clavis Insight, O'Connell Bridge House, Dublin 2.

Researching text classification methods for use in e-commerce analytics.

This project involved research into both supervised and unsupervised text classification methods with the aim of solving an industry specific problem.

2010 - 2015 **Tutor**, University College Dublin, Belfield, Dublin 4.

Tutored undergraduate and postgraduate students over a broad range of courses including probability theory, actuarial statistics, Bayesian analysis, data programming and multivariate analysis.

Demonstrated and tutored computer practical classes (SAS, R and Minitab) of up to fifty students for both undergraduates and postgraduates.

Graded undergraduate and postgraduate assignments in addition to final examinations.

Created screencasts and administered discussion boards for an online module: 'Data programming with R'.

Summer 2012 **Statistical Consultant**, AOL, Heuston South Quarter, Dublin 8.

Undertook a three month study to create an algorithm to automatically detect spam searches on AOL's search engine.

Summer 2011 **Statistical Consultant**, CSTAR, University College Dublin, Belfield, Dublin 4.

Carried out consultations and analysis for health sciences researchers.

2008 - 2010 **I.T. Technician**, Surfbox (Ormonde Technologies) Thomastown, Kilkenny.

Maintained and installed Coin and Credit Card operated Internet terminals throughout Ireland. Constructed new terminals also.

Education

2011 - 2015 **PhD. in Computational Statistics**
University College Dublin, Belfield, Dublin 4.

Title: 'Overcoming Intractable Likelihoods' (Supervisor: Prof. Nial Friel).

My research focused on improving simulation methods for estimating intractable likelihoods. The methods are applicable in area's such as spatial statistics and social network analysis.

2010 - 2011 **M.Sc. in Statistics (First Class Honours)**
University College Dublin, Belfield, Dublin 4.

Minor thesis: 'Supervised Probabilistic Classification' (Supervisor: Prof. Nial Friel).

Courses covered: Multivariate Analysis, Mathematical Statistics, Bayesian Analysis, Time Series Analysis, Applied Statistical Modelling, Data Programming, Monte Carlo Inference and Stochastic Models.

2006 - 2010 **B.Sc. Degree in Mathematical Science (Upper Second Class Honours)**
University College Dublin, Belfield, Dublin 4.

Courses included:

Statistics - Probability Distributions, Statistical Inference I, Biostatistics, Statistical Inference II, Survey Sampling, Linear Models I, Statistics & Visualisation, Linear Models II, Data Analysis I, Actuarial Statistics I, Nonparametric Statistics, Design of Experiments, Survival Analysis, Categorical Data Analysis, Data Analysis II and Linear Models with Complex Structures.

Mathematics - Discrete Mathematics, Financial Mathematics, Vector Spaces and Coding, Calculus of Several Variables, Introduction to Analysis, Polynomial Rings/Group Theory, Functions of One Complex Variable, Differential Geometry and Advanced Linear Algebra.

Mathematical Physics - Analytical & Quantum Mechanics, Vector Calculus, Introduction to Fluids & Waves, Partial Differential Equations and Dynamical Systems.

Skills Acquired

Networking, presenting, report writing and interpersonal skills: Developed through attending and presenting at conferences and workshops, writing my masters and PhD theses, and preparing papers for publication.

Computer skills: 9 years programming experience in the statistical language R (including the Shiny library), programming in C and C++. Extensive knowledge of LaTeX, Microsoft Word, Excel and PowerPoint. Working knowledge in SQL, HTML, Python, SAS, SPSS, Minitab and Genstat.

Teamwork and communication skills: Developed through participation in group projects during my undergraduate degree and also through playing rugby.

Self-motivation and excellent work ethic: Working independently to overcome problems, manage large workload and plan nature of work.

Awards

Graduate Statistician (GradStat), professional membership of the Royal Statistical Society.

Interests and activities

I enjoy all kinds of sport. I am particularly interested in rugby and currently play with Bective Rangers Football Club. I have also played at school level and represented my school in a Leinster Development Cup final. In addition, I enjoy playing golf and have represented Kilkenny Golf Club at Junior Level for which I hold two Leinster medals. Further interests include soccer, tag rugby and socialising with friends.