

2016 - Present	<p>Data Scientist, Clavis Insight, O'Connell Bridge House, Dublin 2.</p> <p>Researching and implementing various statistical methods for use within eCommerce insights and analytics.</p> <p>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 to clients.</p>
2016	<p>Lecturer, University College Dublin, Belfield, Dublin 4.</p> <p>Lecturing an online undergraduate module in the School of Mathematics and Statistics titled 'Practical Statistics'.</p> <p>This involved creating and delivering lectures, creating and grading assignments and exams, and co-ordinating tutors for computer labs in Minitab and R.</p>
2015 - 2016	<p>Postdoctoral Researcher, University College Dublin, Belfield, Dublin 4.</p> <p>& Clavis Insight, O'Connell Bridge House, Dublin 2.</p> <p>Researching text classification methods for use in e-commerce analytics.</p> <p>This project involved research into both supervised and unsupervised text classification methods with the aim of solving an industry specific problem.</p>
2010 - 2015	<p>Tutor, University College Dublin, Belfield, Dublin 4.</p> <p>Tutored undergraduate and postgraduate students over a broad range of courses including probability theory, actuarial statistics, Bayesian analysis, data programming and multivariate analysis.</p> <p>Demonstrated and tutored computer practical classes (SAS, R and Minitab) of up to fifty students for both undergraduates and postgraduates.</p> <p>Graded undergraduate and postgraduate assignments in addition to final examinations.</p> <p>Created screencasts and administered discussion boards for an online module: 'Data programming with R'.</p>
Summer 2012	<p>Statistical Consultant, AOL, Heuston South Quarter, Dublin 8.</p> <p>Undertook a three month study to create an algorithm to automatically detect spam searches on AOL's search engine.</p>
Summer 2011	<p>Statistical Consultant, CSTAR, University College Dublin, Belfield, Dublin 4.</p> <p>Carried out consultations and analysis for health sciences researchers.</p>
2008 - 2010	<p>I.T. Technician, Surfbox (Ormonde Technologies) Thomastown, Kilkenny.</p> <p>Maintained and installed Coin and Credit Card operated Internet terminals throughout Ireland. Constructed new terminals also.</p>

Education

2011 - 2015

PhD. in Statistics

University College Dublin, Belfield, Dublin 4.

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

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 & Visualization, 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.

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

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

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

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.