

SENIOR DATA SCIENTIST

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Data scientist with 4 years industry experience, and 5 years research experience.

Employment_

Edge By Ascential (formerly Clavis Insight)

Dublin, Ireland

SENIOR DATA SCIENTIST

2018 - Present

- Leading Data Science for the Digital Shelf product within Edge By Ascential.
- Managing a team of data scientists.
- Consulting on cross brand projects in the wider Ascential organisation.

DATA SCIENTIST 2016 - 2018

- Researched and implemented various statistical methods for use within ecommerce insights and analytics.
- Developed API in R which uses supervised classification to remove manual data input and QA testing.
- Created suite of UI's tailored for specific tasks within the organisation, allowing users to interactively manage data and apply machine learning techniques to simplify problems.
- Supervised and delivered statistical analysis projects for clients.
- Co-supervised Trinity College Dublin final year students projects in the areas of machine learning and data analytics.

University College Dublin

Belfield, Dublin 4.

LECTURER - SCHOOL OF MATHEMATICS AND STATISTICS

Autumn 2019 & 2020

- Prepared and recorded lectures for an online postgraduate module titled 'Intro to Data Analytics'.
- Managed all continuous assessment and the final examination.

LECTURER - LOCHLANN QUINN SCHOOL OF BUSINESS

Spring 2019

- Delivered lectures for an undergraduate module titled 'Data Analysis for Decision Makers'.
- Helped to prepare, coordinate, and correct both the mid semester project and the final examination.

LECTURER - SCHOOL OF MATHEMATICS AND STATISTICS

Spring 2016

- Lectured an online undergraduate module titled 'Practical Statistics'.
- Coordinated tutors and teaching assistants for computer labs in Minitab and R.

Insight Centre for Data Analytics & Clavis Insight

Dublin, Ireland.

Postdoctoral Researcher

2015 - 2016

- Researched text classification methods for use in ecommerce analytics.
- Involved research into both supervised and unsupervised text classification methods with the aim of solving an industry specific problem.

University College Dublin

Belfield, Dublin 4.

Tutor

2010 - 2015

- 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'.

AOL

Heuston South Quarter, Dublin 8.

STATISTICAL CONSULTANT

Summer 2012

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

JANUARY 2021 DR AIDAN BOLAND · CV

Education

University College Dublin

PHD IN COMPUTATIONAL STATISTICS

2011 - 2015

- Title: 'Overcoming Intractable Likelihoods' (Supervisor: Prof. Nial Friel).
- Improved simulation methods for estimating intractable likelihoods in area's such as spatial statistics and social network analysis.

University College Dublin

MSc in Statistics (First Class Honours)

2010 - 2011

- 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.

University College Dublin

BSc in Mathematical Science (Upper Second Class Honours)

2006 - 2011

Technical Skills

PROGRAMMING

- 10 years experience with R:
 - Code in daily use within a production environment.
 - Suite of UI applications developed using the Shiny library.
- Proficient in: Git, SQL (Postgres, MySQL), Snowflake, ŁTFX, Docker.
- Familiar with: AWS, command line tools, Python, HTML, C, SAS, SPSS.

METHODOLOGIES

• In depth knowledge of many statistical and machine learning techniques, including but not limited to: regression, MCMC, time series, principal component analysis, Bayesian inference, non-parametric methods, logistic regression/max ent, random forests, neural networks, LDA, k-means, nearest neighbour classifiers.

Presentations

INVITED

- 2020 **Shiny Dashboards**, RSS Annual Conference Visualising Data with Dashboards Session
- 2019 **Data Scientist or Statistician?**, Young-ISA meeting (Young section of the Irish Statistical Association)

SELECTED OTHERS

- 2018 An R Case Study: From Research to Production, CASI (Conference on Applied Statistics in Ireland)
- 2017 **Using R to automate the classification of e-commerce products**, EARL Boston (Enterprise Applications of the R Language)
- 2015 **Efficient MCMC for Gibbs Random Fields using pre-computation**, Scalable Monte Carlo workshop at NIPS (Neural Information Processing Systems)

Publications

- 2018 **Boland, A.**, Maire, F., Friel, N., **Efficient MCMC for Gibbs Random Fields using pre-computation** (*Electronic Journal of Statistics*)
- 2014 Alquier, P., Friel, N., Everitt, R. and **Boland, A.**, **Noisy Monte Carlo: convergence of Markov chains with approximate transitions kernels** (*Statistics and Computing*)

Awards.

- 2019 Shiny Contest 'Honorable Mention' for Shiny app displaying real time public transport info for Dublin.
- 2016 Awarded Graduate Statistician (GradStat) status by The Royal Statistical Society.

Interests and Activities

I enjoy all kinds of sport. I am particularly interested in rugby, gaelic games, and golf. I played rugby until 2018, and I continue to play golf. I also enjoy exploring interesting datasets, developing R packages, and creating Shiny apps.