

## Dominic Scruton

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Meticulous, approachable and self-motivated student, seeking to utilise statistical, analytical and programming skills to help implement data-driven decision making and problem solving within a business. Excellent team player who enjoys learning.

### Technical Skills

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**Programming:** proficient in Python, R and SAS, working knowledge in Tableau, R Shiny and BUGS

**Statistical Techniques:** Machine Learning and Neural Networks, Datamining, Generalized Linear & Additive Modelling, Data Visualization, Multivariate Analysis, Bayesian Statistics, Econometrics & Time Series, Optimization & Computational Statistics

### Education

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2019 – 2020 **University of St. Andrews**, MSc Statistics

- Application of Machine Learning algorithms to predict insurance claims and identify key explanatory variables; data cleaning and exploratory analysis; created a shiny app for visualization; verbal and written presentation of results contextualising the benefits of personalized pricing and data-driven conclusions.
- Thesis based on inference for large, complex datasets with thousands of covariates using Bayesian Statistics and Datamining approaches; R Markdown and Latex to present results.

2016 – 2019 **Durham University**, BSc (Hons) Mathematics & Economics (awarded 1:1, 76%)

- Modules included: frequentist statistics, Econometrics, advanced Macroeconomics, Corporate Finance, problem-solving skills in core mathematics modules: linear algebra, calculus, probability and analysis.
- Dissertation: "A Long-Run Survey of Savings in Economic Growth". Utilised R to analyse time series properties of savings and growth in the context of implications of the main economic growth theories.

2011 – 2016 **Woodhouse Grove School**

- A-Levels (2016): Further Maths (A\*), History (A), Maths (A\*), Physics (A), EPQ (A\*), Finance Diploma (A\*)

### Work Experience

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Summer 2019 **Comrades of Children Organisation (COCO), Newcastle** Website Intern

Analysed website appearance and user engagement via google analytics to create a website action plan that improved functionality and emphasised the charity's branding and project work

Summer 2018 **ARC Hospitality, Leeds** Betting Operator

Provided a quality service at York racecourse; Managed stock and cashing up and dealt with customer issues

### Accomplishments & Awards

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2019 – 2020 **Scottish Rugby Midlands Society** Level 7 Referee

Responsible for safety, game management and leadership through decision making in high pressure situations; nominated for society fast-track programme after impressing with game management skills and potential

**St Andrews University Darts Club** President & Founder

Raised membership from 4 to 13 in just 3 months, collaborated with Dundee to establish the first university Dart fixtures in Scotland, affiliated the society and created a management structure to ensure sustainability

2019 Awarded the Albert Green Prize for outstanding performance in Mathematics in final year (88% average)

2017 – 2019 **Durham University Rugby Referees' Society** Treasurer

- Raised total income from £4,100 to £6,000 in 2 years by devising a financial strategy based on "carrot and stick" and collaboration with the college rugby manager to ensure payment of college invoices
- Negotiated £500 kit sponsorship and organised social and training events to improve refereeing standards

**St Chads College Football Club** B team captain

### Societies

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2019 – 2020 **University of St Andrews Investment Society** Analyst

Research and analysis of stocks to present and discuss with the postgraduate team