James Thornton

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Experience Machine Learning Researcher, Rhodes AI Lab Jan - Sept 2019 Developed deep NLP models to assess online abuse, working with Google Jigsaw Analyst, Markets and Analytics Group, BlackRock 2016 - 2018Quantitative role supporting portfolio managers for banking and government clients Built out a portfolio optimization and hedging framework Implemented scalable valuation pipelines for loan and securities portfolios Developed a variable selection and time-series modelling framework Summer Analyst, Portfolio Analytics Group, BlackRock Jun – Aug 2015 Valuation and Risk Assessment of structured products Scholarship Intern, EY: 2012 - 2015University scholarship including internships across the advisory service line **Education** University of Oxford, Computational Statistics and Machine Learning, DPhil (PhD) 2018 - 2022Supervised by George Deligiannidis and Arnaud Doucet (Oxford/ Google DeepMind) Interested in Optimal Transport and the intersection of Monte Carlo with Machine Learning Warwick University, Master's in Statistics with Mathematics 2015 - 2016Distinction Dissertation: Markov Chain Monte Carlo for Bayesian Non-Parametric Mixture Models (89%) o Supervised by Anthony Lee o Including ensemble classification and unsupervised topic modelling of Twitter data Warwick University, BSc Mathematics, Operational Research, Statistics and Economics 2012 - 2015First Class Honours (top 1 to 3 exam performance, depending on year) **Hymers College:** 2010 - 2012A-levels: 5 A* in Mathematics, Further Mathematics, Chemistry, Physics, Economics Mathematics A-level taken 2 years early **Awards and Scholarships** Tukey Award for highest scoring Statistics Master's dissertation (89%) 2016 Statistics Senior Scholarship 2015 - 2016Goldman Sachs Student Challenge Category Winner 2013 - 2014Karl Pearson Award for Top Exam Performance (91%) 2014 EY Scholarship 2012 - 2015**Technical Programming languages**: Python, R, C++ (in order of proficiency) Other: AWS, GCP, SQL, Unix, git, Slurm **Teaching and Reviewing NeurIPS Reviewer** 2020 Class Tutor, Department of Statistics, University of Oxford: Jan - May 2020 4th year undergraduate / MSc Advanced Simulation Methods Teaching Assistant, Balliol College, University of Oxford: 2019 - 2020Introductory Calculus, Probability, Multivariable Calculus, Statistics and Data Analysis