Samuel Howard

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EDUC	ATION	
PhD in 3	Statistics, New College, University of Oxford Member of the Modern Statistics and Statistical Machine Learning (StatML) CDT Programme	2022-
Master – –	of Mathematics, New College, University of Oxford Part C Results (Fourth Year Examinations): Distinction (3 rd in Year Group, average score 86) Part A and Part B Results (Second and Third Year Examinations): First Class First Year Examination Results: Distinction	2018-2022
AWAR	RDS	
Junior I –	Mathematical Prize, Oxford Mathematics Department Placed 3 rd in cohort in Oxford Mathematics Part C Examinations	2022
Boyer F _	Prize, New College Best performance in Second Year Mathematics Examinations at New College, Oxford	2020
Karen T –	Fhornton Memorial Prize, New College Best performance in First Year Mathematics Examinations at New College, Oxford	2019
Head Bo	oy, Senior School Elected by both peers and staff; organised events and demonstrated public speaking skills	2017
IBM Priz	ze, National Cipher Challenge Captain of the School National Cipher Challenge Team, achieving 1 st place out of over 3,500 e	2017 entries.
RESE	ARCH EXPERIENCE	
StatML Optimis	PhD Programme sation Methods for Computational Optimal Transport Supervised by George Deligiannidis and Patrick Rebeschini.	2023-
Fourth ` Best-of	Year Dissertation F-Both-Worlds Bandits: An Introduction and Extension of the Tsallis-INF Algorithm Supervised by Patrick Rebeschini. Conducted a literature review of the Tsallis-INF algorithm, which achieves optimality in both st	2022
-	adversarial bandit structures. Proved regret bounds for a novel extension of the algorithm to the case of Bandits with Paid C Empirically compared the novel algorithm to existing methods.	bservations.
Oxford The Asy – –	Mathematical Institute, Data Science Research Group – Summer Research Intern ymptotic Randomised Control Algorithm for Contextual Bandits Undertook an 8-week research project supervised by Prof. Samuel Cohen and Dr Tanut Treet Studied and implemented a novel algorithm for the multi-armed bandit problem, a classic reinf learning problem demonstrating the exploration-exploitation trade-off.	2021 anthiploet. orcement
-	Conducted a literature review of the Asymptotic Randomised Control algorithm, adapted the a case of contextual bandits, and implemented the result using Python in TensorFlow's TF-Ager Compared performance against existing algorithms in a variety of standard and novel bandit s Results demonstrated improved performance for bandits with additional structure, while remai competitive in standard cases. Received prize for research presentation at the Oxford EPSRC Vacation Placement event.	Igorithm to the its library. tructures. ning
INTER	ESTS	
Tutor	Tutor in Statistics, Probability at New College, Oxford (First Year Mathematics courses). Tutor in Integration at New College, Oxford (Second Year Mathematics course).	2023- 2023-
Music	Achieved Grade 8 with Distinction on Classical Guitar and Double Bass. Member of Oxford University Philharmonia. Member of the Hallé Youth Orchestra.	2017, 2018 2018- 2017-2018

Member of the Hallé Youth Orchestra. Other Gold Duke of Edinburgh's Award. Scout Leader: Volunteered at a local Scout Troop at weekly meetings and on camps. 2014-2018

2018