Anya Sims

Jesus College, Oxford, OX1 3DW	<u>anyasims.github.io</u> <u>anya.sims@stats.ox.ac.u</u>
Education PhD in Machine Learning and Modern Statistics – University of Oxford Member of the StatML CDT and OxCSML group Supervised by Prof. Yee Whye Teh	Sept 2022–2026
 MEng in Information and Computer Engineering – University of Cambridge BEng First Class with Distinction (ranked 5/288) Department prize for best 3rd year project Top ranked final exam performance in Information Engineering II MEng First Class with Distinction (ranked 8/261) Received Distinction for dissertation – Supervised by Prof. Phil WA Several Engineering Department and Jesus College Cambridge awards/sch 	Sept 2018–2022 nstrumentation and Control area 'oodland holarships each year
Research Experience PhD Publication Project "The Edge-of-Reach Problem in Model-Based Offline Reinforcement Learning" Supervised by Prof. Yee Whye Teh. In collaboration with Cong Lu. NeurIPS 2023 Agent Learning in Open-Endedness Workshop Under review at ICML 2024	2023-24
StatML CDT Mini-Project 1 of 2 Investigating plasticity loss and the effects of non-stationary training in deep neural netw Supervised by Prof. Yee Whye Teh and Chris Gamble (deepmind)	2023
StatML CDT Mini-Project 2 of 2 Sphering transformations for stable equivariant normalization in graph neural networks Supervised by Prof. Yee Whye Teh. Collaboration with Sheheryar Zaidi.	2023
Research Placement – University of Cambridge Identifiable variational autoencoders for disentangled causal representation learning Supervised by Prof. José Miguel Hernández-Lobato. In collaboration with Wenlin (Summer 2022 (8 weeks) Chen.
 MEng Dissertation – University of Cambridge End-to-End Speech Recognition using Neural Transducers Developed more efficient method of graph-based decoding for speech recognitio Supervised by Prof. Phil Woodland. In collaboration with Tony Zheng. 	Sept 2021–2022 n in transducer language models.
Industry Experience Software Engineering Intern - Graphcore Worked on a team within the AI Applications Group to implement an extensive co recognition benchmarks on Graphcore's IPU in TensorFlow2. This involved strateg stages of the model onto different IPU processing cores to maximize training and	Summer 2021 (10 weeks) odebase demonstrating several image gically coordinating loading of different inference efficiency.
Machine Learning Mentorship – Featurespace Chose to work on abstract reasoning using deep learning (see Kaggle Abstraction	Summer 2020 (10 weeks) and Reasoning Challenge)
Software Engineering Intern – Softwire Website development – Worked primarily on asynchronous API calls component	(using Javascript and React)
Data Analytics Intern – Infosys	Summer 2019 (10 weeks)

TA and Tutor – University of Oxford, Mathematics and Statistics Department2023-2024Advanced Topics In Statistical Machine Learning – 4th Year Maths and MSc course covering support vector machines, kernelmethods, Bayesian machine learning, Gaussian processes, Bayesian optimization, Deep learning, and latent variable models.

Other

Languages: Python, C++, Bash Frameworks: PyTorch, Tensorflow Organizational/Teaching roles: Can

Cambridge Windsurfing Secretary (2020-2022) Volunteer secondary school maths tutor (2018-2019)