
Education	PhD Computer Science <i>University of Edinburgh, 2018-2021</i> <ul style="list-style-type: none">- Studying efficient learning and inference in neural networks under the supervision of Professor Michael O'Boyle, Dr Elliot J. Crowley, and Professor Amos Storkey.- Cross-domain research resulting in papers at both machine learning (ICML, ICLR, NeurIPS) and computer systems (ASPLOS, IISWC) conferences.- Organising committee member for 1st Workshop on Emerging Deep Learning Accelerators at HiPEAC 2019.- Open source paper replications, tutorials on Gaussian Processes, Python.
	MSc Computer Science (Distinction) <i>University of Edinburgh, 2017-2018</i> <ul style="list-style-type: none">- Modules on Machine Learning and Parallel Architectures with a project on accelerating training speeds for neural machine translation models.- Thesis on hardware adaptive deep learning for embedded GPUs. Replicated deep learning papers in Python and C++ using PyTorch and Tensorflow.
	BSc Computer Science (1st class) <i>University of Birmingham, 2014-2017</i> <ul style="list-style-type: none">- Specialised in machine learning and compilers. Final year courses on statistics, linear algebra and data analysis with project on using neural networks for enhancing stochastic process models.
Technical Skills	Programming Languages: Python, C++, OCaml, Bash. Other: Deep learning, PyTorch, TVM, optimising compilers.
Experience	Part-Time Teaching Fellow <i>Cambridge Spark, March 2020-March 2021</i> Content development and tutoring for topics in machine learning and data science, such as introductions to NumPy, Pandas, SQL, and Bayesian Statistics.
	Data Science Intern <i>Lattice Training, July 2017</i> Summer internship analysing athlete profiles and using machine learning to predict and develop areas of improvement for professional athletes.
	Technology & Data Summer Analyst <i>Morgan Stanley, June-August 2016</i> Ten week internship in the Equity Derivatives team at Morgan Stanley. Worked as a full stack engineer building tools for investigating internal dataflow with Scala.
Selected Publications	Neural Architecture Search Without Training. J. Mellor, J. Turner, E. Crowley, A. Storkey. <i>International Conference on Machine Learning, 2021.</i>
	Neural Architecture Search as Program Transformation Exploration. J. Turner, E. Crowley, M. O'Boyle. <i>Architectural Support for Programming Languages and Operating Systems, 2021.</i>
	Bayesian Meta-Learning for the Few-Shot Setting via Deep Kernels. M. Patacchiola, J. Turner, E. Crowley, A. Storkey. <i>Advances in Neural Information Processing Systems, 2020.</i>
	BlockSwap: Fisher-guided Block Substitution for Network Compression. J. Turner, E. Crowley, A. Storkey, M. O'Boyle, Gavin Gray. <i>International Conference on Learning Representations, 2020.</i>