

Education	PhD Computer Science <i>University of Edinburgh, 2018-2021</i> <ul style="list-style-type: none"> - Studying efficient representation structures and optimisations under the supervision of Professor Michael O'Boyle and Professor Amos Storkey. - Organising committee member for 1st Workshop on Emerging Deep Learning Accelerators at HiPEAC 2019. Reviewer for Neural Architects (workshop at ICCV '19), BMVC '19. - Open source paper replications, tutorials on Gaussian Processes, Python programming.
	MSc Computer Science (Distinction) <i>University of Edinburgh, 2017-2018</i> <ul style="list-style-type: none"> - Taught 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"> - Specialized 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	Languages: C, C++, Python, OCaml, Bash, CUDA, OpenCL. Other: Deep Learning, PyTorch, Optimising Compilers, Linear Algebra.
Experience	Data Science Intern <i>Lattice Training, 2017</i> Summer internship analysing athlete profiles and using machine learning to predict and develop areas of weakness in rock climbers.
	Technology & Data Summer Analyst <i>Morgan Stanley, 2016</i> Ten week internship in the Technology & Data group at Morgan Stanley. Worked as a full stack engineer building tools for investigating internal dataflow with Scala.
	Campus Ambassador <i>Morgan Stanley, 2015</i> Voted Campus Ambassador of the Year after promoting Morgan Stanley at university events and careers fairs to fellow students.
Publications	Deep Kernel Transfer in Gaussian Processes for Few-shot Learning. M. Pattachiolu, <u>J. Turner</u> , E. Crowley, A. Storkey. <i>Currently under submission.</i>
	BlockSwap: Fisher-guided Block Substitution for Network Compression. <u>J. Turner</u> , E. Crowley, A. Storkey, M. O'Boyle. <i>Currently under submission.</i>
	Distilling with Performance Enhanced Students. <u>J. Turner</u> , E. Crowley, A. Storkey, M. O'Boyle. <i>ARM Research Summit, 2019.</i>
	A Closer Look at Structured Pruning for Neural Network Compression. E. Crowley, <u>J. Turner</u> , A. Storkey, M. O'Boyle. <i>NeurIPS Workshop on Compact Deep Neural Networks, 2018.</i>
	Characterising Cross-Layer Optimisations for Deep Convolutional Neural Networks. <u>J. Turner</u> , J. Cano, V. Radu, E. Crowley, A. Storkey, M. O'Boyle. <i>IEEE International Symposium on Workload Characterisation, 2018.</i>