

Akbir Khan

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website: am-khan.me

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| Interests | Representation Learning, Reinforcement Learning, AI Safety and Fairness | |
| Education | Sidney Sussex College, University of Cambridge, UK | 2017-2018 |
| | MPhil in Advanced Computer Science | Pass with Distinction |
| | Advised by Prof. Hatice Gunes and Jack Hopkins | |
| | University College London, UK | 2013-2017 |
| | MSci in Mathematics and Physics | 1 st Class Honours |
| | Advised by Prof. Stephen Bramwell | |
| | University of Toronto, Canada | 2015-2016 |
| | Visiting Student in Mathematics and Computer Science, April 2015 | GPA: 3.3/4.0 |
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| Publications | Reconsidering Race as a Problem of Transfer Learning | |
| | A.Khan, M.Mahmoud | |
| | Workshop on Demographic Variations in Performance of Biometric Algorithms, 2019 IEEE Winter Conference of Applications on Computer Vision, Oral ArXiv: 1812.04751 | |
| | Latent Racial Bias - Evaluating Racism in Police Stop-and-Searches | |
| | A.Khan | |
| | ArXiv: 1807.05 (STILL NEEDS TO BE CORRECTED) | |
| Experience | Spherical Defence Labs | Jun. 2018 - Present |
| | Lead Research Scientist | |
| | Organise a team of 5 research engineers, directing research of intellectual property Designed novel unsupervised deep learning architecture to model tree structured data Co-authored patent to identify anomalous web traffic (Number: 049653.00003) | |
| | Deutsche Bank | Jun. 2018 - Aug. 2018 |
| | Software Engineer/Business Analyst | |
| | Created user interface for internal search engine of golden-source market and meta data Implemented MIFIDii regulation (€100m budget) at cross-divisional and global scale Designed project milestones and tracking metrics, to be used by all (300) projects | |
| | Imperial College London | Jun. 2014 - Aug. 2014 |
| | Junior Research Assistant | |
| | Worked with Prof. David Jennings in the Quantum Optics and Laser Group. Applied information theory to validate restrictions within quantum communication protocols | |
| Side Projects | Bad Flamingo [github.com/jayelm/bad-flamingo] | |
| | Gamified data collection of Adversarial examples of sketched images | |
| | Awarded 1 st Prize at the Cambridge Ternary Hackathon | |
| | Bag of Poses [github.com/am-khan/bag-of-poses] | |
| | A machine learning model for emotion detection from the body language of crowds | |
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| Skills | Languages: Python [TensorFlow, scikit-learn, NumPy, PyTorch, Keras], Lua [Torch] Graduate Courses: Probabilistic Machine Learning, Computer Vision, Deep Learning for Natural Language Processing, Group Rings and Fields (UofT), Computation and Simulation Methods (UCL) | |
| Awards | Provost Excellence Scholarship | |
| Extra Curriculum Activities | Charity Work: DebateMate - mentoring children through debating in areas of poverty | |
| | University Debating: Finalist at Warwick 2016 and Harvard 2018 inter-varsity | |
| | Leadership: Passed the Air Cadet Leadership Course at RAF station Cramwell Sports: Member of the Sidney Sussex mens rowing 2 nd team | |