

Arslan Chaudhry

Contact Information	Flat 164, Block D, Castle Mill, Roger Dudman Way, Oxford OX1 1GA, United Kingdom	(44)7491-875617 arslan.chaudhry@new.ox.ac.uk http://www.robots.ox.ac.uk/~arslan/
Education	University of Oxford , United Kingdom Oct 2016 - Present <i>Doctor of Philosophy (DPhil) in Machine Learning and Computer Vision</i> <ul style="list-style-type: none">• Advisor: Philip H.S. Torr• Focus: Machine learning models for continual/ lifelong learning and modular representations in deep networks.• Rhodes Scholar (2016) University of Engineering & Technology , Lahore, Pakistan August 2013 <i>Bachelor of Science in Electrical Engineering</i> <ul style="list-style-type: none">• CGPA: 3.946/4.0• Multiple gold medals for graduating at the top of 400+ students graduating class• Thesis: Load balancing of compute intensive applications on Beowulf clusters	
Professional Experience	Visiting Researcher , Facebook AI Research (FAIR) June 2018 - Present <ul style="list-style-type: none">• <i>Mentors</i>: Marc'aurelio Ranzato, Marcus Rohrbach, Mohamed Elhoseiny,• <i>Project</i>: Efficient Lifelong Learning. Sr. Software Development Engineer , Mentor Graphics June 2013 - Aug 2016 Developed a Virtual Machine Monitor (VMM)/ Hypervisor for ARM and Intel platforms. Lead the development of: <ul style="list-style-type: none">• Secured (using TrustZone – ARM) and virtualized (VT-x/ VT-d – Intel) Memory Management Unit (MMU)• Networking and console drivers based on virt-IO• Profiling and visualization toolkit• Build/ configure and packaging system• → Received multiple performance excellence awards	
Publications	<ol style="list-style-type: none">1. Arslan Chaudhry, Marc'Aurelio Ranzato, Marcus Rohrbach, Mohamed Elhoseiny; <i>Efficient Lifelong Learning with A-GEM</i>, International Conference on Learning Representations (ICLR), 2019.2. Arslan Chaudhry, Puneet K. Dokania, Thalaiyasingam Ajanthan, Philip Torr; <i>Riemannian Walk for Incremental Learning: Understanding Forgetting and Intransigence</i>, In the Proceedings of the European Conference on Computer Vision (ECCV), 2018.3. Arslan Chaudhry, Puneet K. Dokania, Philip Torr; <i>Discovering Class-Specific Pixels for Weakly-Supervised Semantic Segmentation</i>, In the Proceedings of the British Machine Vision Conference (BMVC), 2017. (oral)	

Teaching Undergraduate Tutorials, **Machine Learning**, Trinity 2018, Stanford House
 Graduate Teaching Assistant, **Networking**, Trinity 2018, University of Oxford
 Graduate Teaching Assistant, **Operating Systems**, Hilary 2018, University of Oxford
 Lab Demonstrator, **Software Engineering**, Hilary 2018, University of Oxford
 Lab Demonstrator, **Software Engineering**, Hilary 2017, University of Oxford
 Teaching Assistant, **Operating Systems**, Spring 2013, UET, Lahore

Computing Expertise

Languages: C, C++, Python, numpy, Shell Scripting, SQL, PHP, Eclipse P2 Development, Verilog (HDL), Assembly language (ARM, x86, MIPS and 80c51), GNU/Linux Programming, MATLAB, L^AT_EX

Programming Paradigms: CUDA Programming, System Programming, Linux Kernel and Driver Development, Parallel Programming, Application Level Programming, Agile Sprint Development

Machine Learning Frameworks: Tensorflow, Pytorch, Keras

Advanced MPS Modules: ARM TrustZone, Intel's VT-d and VT-x

Leadership Activities **President**, IEEE UET Lahore **June 2012 - June 2013**
 As president, I was responsible for the overall performance of the chapter. Presided all technical, budget and alumni committee meetings. Represented the society at the *Pakistan Student Congress 2012*. The chapter won the *Best Student Branch of Lahore Section* award during my tenure.

Awards Grants Fellowships

Murray Speight Grant, Rhodes House, **2018**
 Rhodes Scholar, **2016**
 Performance Excellence Award, Virtualization Team, Mentor Graphics ESD, **2015**
 Topper and Gold medalist of Electrical Engineering Department, UET Lahore, **2013**
 Deans Honors List, UET Lahore, **2009-2013**
 Nominated for IEEE Region 10 executive comity by IEEE Lahore Section, **2013**
 Obtained third position in BLOSSOM held by MIT officials at PYF, **2012**
 Winner of Race to Innovation in Pakistan Student Congress, **2012**
 Obtained third position in Pakistan in IEEE Xtreme Programming Competition, **2012**
 PCS scholarship recipient worth PKR 113980, **2007-2009**

Side Activities

Mountains Explorer
 Sports Freak
 Follower of the Indian sub-continent music and semi-pop
 Mentor Graphics, Lahore office Foosball, Pool champion and Cricket league winner

Referees

<p>Philip Torr Professor Department of Engineering Science University of Oxford, United Kingdom email: philip.torr@eng.ox.ac.uk</p>	<p>Puneet Dokania Post-Doctoral Researcher Department of Engineering Science University of Oxford, United Kingdom email: puneetkdokania@gmail.com</p>
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