

Arslan Chaudhry

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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: 3.95/4.0 (Highest honors)• 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	Research Intern , Facebook AI June 2019 - September 2019 <ul style="list-style-type: none">• <i>Mentors</i>: Albert Gordo, David Lopez-Paz• <i>Project</i>: Experience Replay for Continual Learning Visiting Researcher , Facebook AI Research (FAIR) June 2018 - February 2019 <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, Albert Gordo, David Lopez-Paz, Puneet K. Dokania, Philip H. S. Torr, Using Hindsight to Anchor Past Knowledge in Continual Learning, International Conference on Learning Representations (ICLR), 2020 (Under Submission).2. Arslan Chaudhry, Marcus Rohrbach, Mohamed Elhoseiny, Thalaiyasingam Ajanthan, Puneet K. Dokania, Philip H.S. Torr, Marc'Aurelio Ranzato; <i>Continual Learning with Tiny Episodic Memories</i>, International Conference on Machine Learning (ICML), MTLRL Workshop, 2019.	

3. **Arslan Chaudhry**, MarcAurelio Ranzato, Marcus Rohrbach, Mohamed El-hoseiny; *Efficient Lifelong Learning with A-GEM*, International Conference on Learning Representations (ICLR), 2019.
4. **Arslan Chaudhry**, Puneet K. Dokania, Thalaiyasingam Ajanthan, Philip Torr; *Riemannian Walk for Incremental Learning: Understanding Forgetting and Intertransigence*, In the Proceedings of the European Conference on Computer Vision (ECCV), 2018.
5. **Arslan Chaudhry**, Puneet K. Dokania, Philip Torr; *Discovering Class-Specific Pixels for Weakly-Supervised Semantic Segmentation*, In the Proceedings of the British Machine Vision Conference (BMVC), 2017. **(oral)**

Teaching	Tutorials, Machine Learning , Trinity 2018, Stanford House Tutorials, Networking , Trinity [2018, 2019] University of Oxford Tutorials, Operating Systems , Hilary [2018, 2019], University of Oxford Lab, Software Engineering , Hilary [2017, 2018, 2019], University of Oxford Teaching Assistant, Operating Systems , Spring 2013, UET, Lahore	
Computing Expertise	<u>Languages:</u>	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 ^A T _E X
	<u>Programming Paradigms:</u>	CUDA Programming, System Programming, Linux Kernel and Driver Development, Parallel Programming, Application Level Programming, Agile Sprint Development
	<u>Machine Learning Frameworks:</u>	Tensorflow, Pytorch, Keras
	<u>Advanced MPS Modules:</u>	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 <i>Pakistan Student Congress 2012</i> . The chapter won the <i>Best Student Branch of Lahore Section</i> 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	
Service	Reviewer for ICML [2019-2020], NeurIPS [2019-], CVPR [2019-2020], ICCV [2019-] Reviewer for IEEE Transaction on Multimedia	