

Arslan Chaudhry

Contact Information

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Experience

Sr. Research Scientist, Google DeepMind

April 2021 - Present

- *Team*: Adaptive and Reliability Team (ART)
- *Focus Areas*:
 - Foundation Models:
 - * Mutlimodal finetuning and RLHF.
 - * Factuality and Uncertainty of LLMs.
 - Continual-, Meta-, Auto-ML.

Research Internships

- **Google Research** June 2020 - September 2020
 - *Hosts*: Srikumar Ramalingam, Andreas Veit
 - *Project*: Mixup regularization for dataset efficiency
- **Facebook AI** June 2019 - September 2019
 - *Hosts*: Albert Gordo, David Lopez-Paz
 - *Project*: Experience Replay for Continual Learning
- **Facebook AI Research** June 2018 - February 2019
 - *Hosts*: Mohamed Elhoseiny, Marcus Rohrbach, Marc'aurelio Ranzato
 - *Project*: Efficient Lifelong Learning.

Sr. Software Developer, Mentor Graphics

June 2013 - Aug 2016

- Developed a Virtual Machine Monitor (VMM)/ Hypervisor for ARM and Intel platforms.
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Education

PhD, University of Oxford, United Kingdom

Oct 2016 - December 2020

- **Rhodes Scholarship**
- **Area**: Machine Learning and Computer Vision
- **Advisor**: Philip H.S. Torr
- **Thesis**: Continual Learning for Efficient Machine Learning

BSc, University of Engineering & Technology, Lahore **Sep 2009 - Aug 2013**

- **Area:** Electrical Engineering
- **CGPA:** 3.95/4.0 (Rank: 1/ 400+; Medalist)
- **Thesis:** Load balancing of compute intensive applications on Beowulf clusters

Publications Google Scholar [<https://scholar.google.co.uk/citations?user=F08vjQMAAAAJ&hl>]

Teaching Tutorials, **Machine Learning**, Hilary 2020, Trinity 2018, Stanford House (Oxford)
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

- Talks**
- **CVPR'23**, On Forward Transfer in ML Development Cycle, June 2023.
 - **KAUST**, Continual Learning in Deep Neural Networks, July 2020
 - **Google Research**, Continual Learning in Deep Neural Networks, July 2020
 - **Google DeepMind**, Continual Learning in Deep Neural Networks, April 2020
 - **UET Lahore**, Machine Learning Introduction, December 2017
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Computing Expertise	Languages:	Python, C
	Programming Paradigms:	Linux Kernel and Driver Development, Parallel Programming, CUDA Programming
	Machine Learning Frameworks:	Jax, Tensorflow
	Embedded Systems:	ARM TrustZone, Intel's VT-d and VT-x

Awards Amazon Research Award, **2019-2020**
Grants NeurIPS Travel Award, **2019**
Fellowships ICLR Travel Award, **2018**
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 [19-24], NeurIPS [19-22], ICLR [21-22], AISTATS[22], CVPR [19-20], ECCV[20], ICCV [19], CoLLas [22-24]
Reviewer for TPAMI, JMLR, IEEE Transaction on Multimedia