

# Arslan Chaudhry

## Contact Information

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## Experience

### Research Scientist, Google DeepMind

**April 2021 - Present**

- *Team*: Foundational Research Unit
- *Focus Areas*: Learning improvements in LLMs, Post-training (multimodal fine-tuning and RLHF), Factuality and Uncertainty of LLMs, Continual-, Meta-, Auto-ML
- *Applied Research to*: Astra, YouTutor, Lookout

### 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.

### Software Developer, Mentor Graphics

**June 2013 - Aug 2016**

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

## 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=F08vjQMAAAJ&hl>]

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**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

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- 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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<b>Computing Expertise</b>	<b>Languages:</b>	Python, C/ C++
	<b>Programming Paradigms:</b>	Linux Kernel and Driver Development, Parallel Programming, CUDA Programming
	<b>Machine Learning Frameworks:</b>	Jax, Tensorflow
	<b>Embedded Systems:</b>	ARM TrustZone, Intel's VT-d and VT-x

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**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**

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**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
- Organizer of several workshops at NeurIPS, ICML and ICLR