

# Khurram Javed

Last Updated : December 19, 2019

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## Education

- 2018–Current **M.Sc Computing Science**,  
*University of Alberta*, Edmonton, Canada.  
Working on representation learning for continual and reinforcement learning.  
**Supervisor** : Martha White.  
Teaching Assistant: CMPUT 272 - Formal Systems and Logic for fall 2018 and winter 2019.
- 2014–2018 **Bachelors of Engineering in Software Engineering**,  
*NUST (National University of Sciences and Technology)*, Islamabad, Pakistan.
- CGPA – 4.0/4.0 **EECS CGPA Statistics**<sup>1</sup> –  $\mu$  : 3.24.  $\sigma$  : 0.33
  - President's Gold Medal** (Awarded for graduating with the highest distinction)
  - Rector's Gold Medal** (Awarded to one final year thesis)
- 2012–2014 **International Mathematical Olympiad Training Camps (Non-degree)**,  
*Abdus Salam School of Mathematical Sciences*, Lahore, Pakistan.
- Honorable Mention** at **55th International Mathematical Olympiad**, Cape Town, South Africa.  
Missed bronze medal by 2 points. [Result](#)
  - Bronze Medal** at **XXVI Asian Pacific Mathematical Olympiad**. [Result](#)

## Publications (Google Scholar)

- Jan 2019–  
June 2019 **K.Javed** and M.White, "**Meta-Learning Representations for Continual Learning**", **NeurIPS 2019**.  
[Paper](#) / [Code](#) / [Talk](#) / [Poster](#) .  
We propose OML, an objective for learning representations by using catastrophic interference as a training signal. Resultant representations are naturally sparse, accelerate future learning and are robust to forgetting under online updates in continual learning.
- Nov 2018 –  
Feb 2019 S.Sokota, R.D'Orazio, **K.Javed**, H.Haider, R.Greiner, "**Simultaneous Prediction Intervals for Patient-Specific Survival Curves**." **IJCAI19**, *Acceptance rate  $\approx$  17.9%*. [Paper](#) / [Code](#) .  
We propose a simple drop-in procedure for approximating the Bayesian credible regions of patient-specific survival functions that can be applied to many ISD models.
- Sept 2017 –  
May 2018 **K.Javed**, F.Shafait, "**Revisiting Distillation and Incremental Classifier Learning**." **ACCV18**, *Acceptance rate  $\approx$  28%*. [Paper](#) / [Code](#) / [Poster](#) .  
We isolate the truly effective existing ideas for incremental classifier learning from those that only worked under certain conditions, and propose an algorithm that effectively removes bias from classifiers learned through knowledge distillation.
- Feb 2017 –  
April 2017 **K.Javed**, F.Shafait, "**Real-time Document Localization in Natural Images using Recursive Application of a CNN**." **ICDAR 2017**, Oral Presentation. *Acceptance rate  $\sim$  13%*, [Paper](#) / [Code](#) / [Slides](#) .  
We propose a document localization algorithm that recursively uses a convolutional neural network to precisely localize a document in a natural image.

<sup>1</sup>Based on publicly available data of 705 currently enrolled EE and CS students in NUST with a CGPA of at-least 2.7. Actual mean would be lower.

## Work Experiences

- June 2019 – **Research Associate**, *Hi-Silicon, Huawei Research*, Canada.
- October 2019 I worked at the intersection of meta-learning, reinforcement learning, and representation learning with Hengshuai Yao.
- **K.Javed**, H.Yao, M.White. Is Fast Adaptation All You Need? NeurIPS19, Meta-Learning Workshop
- June 2017 – **Summer@EPFL Research Intern at Laboratory for Communications and Applications**, EPFL (École Polytechnique Fédérale de Lausanne), Switzerland. [Slides](#) .
- Sept 2017 I worked on a data-driven approach to predict end to end throughput of PLC-WiFi hybrid paths in ad-hoc networks with Sébastien Henri, Victor Kristof and Prof. Patrick Thiran.
- Aug 2015 – **International Mathematical Olympiad Trainer**, COMSATS Institute of Information Technology, (Lahore), Pakistan.
- June 2017 Pakistan's IMO coach left the country in 2014. To fill a temporary vacuum, I, volunteered to teach at the training camps. As a trainer, I gave lectures and prepared problems sets for olympiad geometry and number theory.

## Recorded Talks

- June, 2019 Meta-Learning Representations for Continual Learning, Tea-Time Talk, University of Alberta. [Video](#)

## Recent Awards and Accolades.

- Oct 2019 NeurIPS19 travel award.
- Oct 2018 NeurIPS18 volunteer award.
- Sept 2018 University of Alberta Recruitment Scholarship.
- Nov 2017 Travel award for KAIST EECamp, South Korea.
- Sept 2017 ICDAR 2017 Student Travel Award (2,00,000 JPY).
- June 2017 Research internship at EPFL (1730 CHF/month Summer@EPFL award with  $\approx 3 - 4\%$  acceptance rate).

## Reviewing

- 2019 *ICLR, AAAI*