

# Javed Ahmad

## Research Interests:

3D scene perception | deep learning | multimodal fusion

## Education

- 11/2020 – present **Ph.D in Computational Vision, Automatic Recognition and Learning**  
Doctoral researcher at istituto italiano di tecnologia (iit), Italy  
**Research Theme:** 3D scene understanding with deep learning and geometric reasoning  
**University Affiliation:** Università degli studi di Genova (UniGe), Italy
- 2017 – 2019 **Master of Science in Electrical Engineering**  
Information Technology University, Pakistan  
**Majors:** adv. mathematics | machine learning | control system theory | digital signal Processing
- 2013 – 2017 **Bachelor of Science in Electrical Engineering**  
University of Central Punjab, Pakistan  
**Majors:** electronics | control system | image processing | signal processing

## Work Experience

### Research

- 11/2020 – present **Doctoral Researcher**  
Istituto Italiano di Tecnologia, Italy  
**Research Focus:** 3D scene perception from single and multi-modalities
- 07/2019 – 10/2020 **Research Associate**  
CACTUS Lab, Information Technology University, Pakistan

### Teaching

- 2017-2019 **Teaching Assistant**  
Machine Learning (graduate course)  
Calculus & Analytical Geometry (undergrad course)  
Power System Analysis (undergrad course)

### Industry

- 2011 – 2017 **Associate Engineer**  
SUPARCO (national space agency of Pakistan)  
Worked on anomaly detection & control activities of Pakistan's first communication satellite (Paksat-1R)

## Programming Skills

- Python: Pytorch | Numpy | Pandas | OpenCV | Keras | TensorFlow
- 3D Libs. mmdetection3D | Open3D | pytorch3D
- Others: C++ | MATLAB | Blender

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## Publications

- 2022 **Ahmad J.**, Taiana M., Toso M., James S., Del Bue A., 2022, May. Multi-view 3D objects localization from street-level scenes. In 21<sup>st</sup> International Conference on Image Analysis and Processing. Springer. [[paper link](#)] [[code](#)]
- 2022 Castro E., Rebelo A., Rio Torto I., Capozzi L., Ferreira MF, Goncalves T., **Ahmad J.**, Daoudi N., Beco S., Ferreira PM, Moreira G. Fill in the Blank for Fashion Complementary Outfit Product Retrieval: VISUM Summer School Competition. Journal on Machine Vision and Applications, Vol. 34, (no. 1), pp. 1-15 DOI [10.1007/s00138-022-01359-x](#)
- 2020 **Ahmad J.**, Shamshad F., Maqbool J., Ahmed A, 2020. Deep unsupervised deblurring approach for improving crops disease classification. In CVPR Workshop on Agriculture-Vision. [[workshop link](#)] [[slides](#)] [[code](#)]

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## Summer Schools

- Jul - 2023 **International Computer Vision Summer School - ICVSS 2023**  
**School Theme:** From Perception to Action  
**Program:** 30 hours of lectures from world well-known experts in the field
- Jul - 2021 **Vision Understanding and Machine Intelligence - VISUM 2021**  
**Program:** lectures | coding sessions | project competition | panel discussions  
**Awarded:** Best project team for achieving the highest prediction accuracy in competition titled 'to predict the complementary products in an outfit'. [[presentation link](#)]
- Jul - 2020 **Easter European Machine Learning Summer School - EEML 2020**  
**Program:** lectures | coding session | panel discussions | poster presentations  
**Awarded:** Best unconference research proposal for 3D historic landmark reconstruction. [[presentation link](#)]
- Aug - 2020 **Oxford Machine Learning Summer School - OxML 2020**  
**Program:** lectures | coding session | unconference sessions

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## Awards & Prizes

- Ranked 1<sup>st</sup>** in the competition by VISUM 2021 and EEML 2020  
**Fellowship** granted by Information Technology University, Pakistan  
**Ranked 1<sup>st</sup>** among all the faculties in BS final year project  
**Ranked 1<sup>st</sup>** for designing soccer ball robot competition 'robo-sprint 2014' held at CASE University, Pakistan
- 2008 - 2011 **Scholarship** granted by SUPARCO (national space agency of Pakistan)

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## Community Service

I am sensitive to the themes regarding barriers to education and learning in a discriminated portion of society. I was a member of the Akhuwat Foundation, Pakistan, which is dedicated to charity fundraising ideas.