





SYED TALAL WASIM

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EDUCATION

University of Bonn

Ph.D. in Computer Vision

Jan 2024 – Ongoing

Bonn, Germany

- Working on Multi-Modal Video Recognition and Anticipation
- Supervised by Professor Dr. Jürgen Gall

Universidad Autónoma de Madrid

*MS Image Processing and Computer Vision - **CGPA - 8.78/10***

Sep 2019 – Jun 2021

Madrid, Spain

- Funded by the Erasmus Mundus Joint Masters Degree (EMJMD) Scholarship Program
- MS Thesis: Automatic Typography Analysis on Figurative Content
- Supervised by Dr. Mathieu Salzmann (CVLAB) at EPFL

ETH Zurich

Robotics Summer School and Symposium

Jul 2021

Zurich, Switzerland

- Highly selective program that admits 40 participants (M.S. or Ph.D. students)
- Attended a week-long intensive theoretical and practical education classes in autonomous robotics

Habib University

*BS Electrical Engineering - Minor in Computer Science - **CGPA - 3.86/4.00***

Sep 2015 – Jun 2019

Karachi, Pakistan

- BS Thesis: SquadBot: A Multi-Agent Robotics Teaching and Research Platform
- Graduated with 1st position in program

Stanford University

*Summer International Honors Program - **CGPA - 3.87/4.00***

Jun 2017 – Aug 2017

Stanford, USA

- Coursework: Technology Entrepreneurship, Leading Trends in IT, Smart Cities & Communities

WORK EXPERIENCE

Computer Vision Lab, Mohamed Bin Zayed University of AI

Apr 2022 – Dec 2023

Research Assistant

Abu Dhabi, UAE

- Supervisor: Dr. Salman Khan
- Focused on multimodal supervised and self-supervised video representation learning, and out-of-distribution generalization

Empathic Computing Laboratory, University of Auckland

Jul 2020 – Mar 2021

Research Intern

Remote

- Supervisor: Dr. Mark Billinghurst
- Focused on Multimodal Emotion Recognition using Facial Micro-Expressions
- In addition to Facial Micro-Expressions, the impact of other modalities like EEG and GSR was also investigated

Habib University

Undergraduate Research Assistant

Jan 2018 – Jun 2018

Karachi, Pakistan

- Supervisor: Dr. Muhammad Farhan
- Detection of Mitosis in Breast Cancer Histopathology Images with Deep Learning

PUBLICATIONS

1. **S. T. Wasim**, M. Naseer, S. Khan, M.-H. Yang, and F. Khan, “VideoGrounding-DINO: Towards open-vocabulary spatio-temporal video grounding,” in *CVPR*, 2024
2. M. Z. Yousuf, **S. T. Wasim**, S. N. Hasany, and M. Farhan, “AR-VPT: Simple auto-regressive prompts for adapting frozen vits to videos,” in *VISAPP*, 2024
3. **S. T. Wasim**, K. H. Soboka, A. Mahmoud, S. Khan, D. Brooks, and G.-Y. Wei, “Hardware resilience properties of text-guided image classifiers,” in *NeurIPS*, 2023
4. **S. T. Wasim***, M. U. Khattak*, M. Naseer, S. Khan, M. Shah, and F. Khan, “Video-FocalNets: Spatio-temporal focal modulation for video action recognition,” in *ICCV*, 2023
5. M. U. Khattak*, **S. T. Wasim***, M. Naseer, S. Khan, M.-H. Yang, and F. S. Khan, “Learning self-regulating prompts for vision-language models,” in *ICCV*, 2023
6. **S. T. Wasim**, M. Naseer, S. Khan, F. Khan, and M. Shah, “Vita-CLIP: Video and text adaptive clip via multimodal prompting,” in *CVPR*, 2023
7. **S. T. Wasim**, R. Collaud, L. Défayes, N. Henchoz, M. Salzmann, and D. Ribes, “Toward automatic typography analysis: serif classification and font similarities,” *Journal of Data Mining in Digital Humanities (JDMDH)*, 2023
8. N. Saffaryazdi, **S. T. Wasim**, K. Dileep, A. F. Nia, S. Nanayakkara, E. Broadbent, and M. Billingham, “Using facial micro-expressions in combination with eeg and physiological signals for emotion recognition,” *Frontiers in Psychology*, 2022
9. **S. T. Wasim**, S. N. Hasany, K. Abbasi, H. Feroz, A. A. Ahmed, M. H. Shaikh, and M. Farhan, “Sim-to-real transfer for object detection and localization on animals,” in *CV4Animals CVPR Workshop*, 2021
10. **Arxiv preprints under review:**
 - (a) A. Shaker, **S. T. Wasim**, S. Khan, J. Gall, and F. Khan, “Groupmamba: Parameter-efficient and accurate group visual state space model,” *arxiv preprint, arxiv:2407.13772*, 2024
 - (b) A. Shaker, **S. T. Wasim**, M. Danelljan, S. Khan, M.-H. Yang, and F. Khan, “Efficient video object segmentation via modulated cross-attention memory,” *arxiv preprint, arxiv:2403.17937*, 2024

ACADEMIC SERVICES

- **Journal Reviewers**

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

- **Conference Reviewers**

- Computer Vision and Pattern Recognition (CVPR)
 - European Conference on Computer Vision (ECCV)
 - Asian Conference on Computer Vision (ACCV)
 - Neural Information Processing Systems (NeurIPS)
 - International Conference on Learning Representations (ICLR)
 - Association for the Advancement of Artificial Intelligence (AAAI)

- **Project Supervision**

- Co-supervise undergraduate projects in computer vision at Habib University
 - Co-supervise high-school students in Pakistan for the International Science and Engineering Fair (ISEF)

HONORS AND AWARDS

Ph.D.

- **Compute Award for Large-Scale Open-Vocabulary Video Understanding and Anticipation:** Co-authored EuroHPC Benchmark and Regular access grants with Professor Dr. Juergen Gall totalling nearly 3 million GPU compute hours.
- **Compute Award for Large-Scale Robust Vision Language Models:** Co-authored EuroHPC Benchmark access grant with Professor Dr. Ernesto Damiani totalling 0.2 million GPU compute hours.

Masters

- **Erasmus Mundus Scholarship:** Two year fully funded scholarship for MS studies

Bachelors

- **Dean's Medal:** For graduating with the highest CGPA in Electrical Engineering program
- **Best Capstone Award:** Awarded the best capstone project award in the Electrical Engineering program
- **Summer Program Scholarship:** Among 8 students selected for funded International Honors Program at Stanford University
- **President's Honor List:** For maintaining position on Dean's Honor List in consecutive semesters
- **Dean's Honor List:** The top 10% students in the program each semester
- **High Academic Achievement Scholarship:** Additional 10% Scholarship for the Top 3 students in the school each semester
- **Merit Scholarship:** Awarded 65% scholarship for 4 years

High School

- **Intel ISEF:** Fully funded opportunity to represent Pakistan at the Intel International Science and Engineering Fair (ISEF), 2014 in LA, California

SKILLS

Programming: Python (Advanced), C/C++ (Intermediate), C# (Intermediate), Java (Basic)

Common ML Tools: Pandas, Numpy, Scikit-Learn, Tensorflow/Keras, OpenCV, Pytorch

AR/VR and Game Engines: Unity 3D, HoloLens 1

Languages: English: C2 (Expert), Urdu: Native