

# MOTASEM ALFARRA

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## EDUCATION

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**PhD, King Abdullah University of Science and Technology** *May 2020 - September 2024*  
Department of Electrical and Computer Engineering, Thuwal, Saudi Arabia Overall GPA: 4.0/4.0  
Advisor: Bernard Ghanem  
Thesis: Combating Domain Shifts in Deep Learning Era

**MSc, King Abdullah University of Science and Technology** *January 2019 - May 2020*  
Department of Electrical Engineering, Thuwal, Saudi Arabia Overall GPA: 4.0/4.0  
Advisor: Bernard Ghanem  
Thesis: Applications of Tropical Geometry in Deep Neural Networks

**BSc, Kuwait University** *September 2014 - May 2018*  
Department of Electrical Engineering, Alkhaldiya, Kuwait Overall GPA: 4.0/4.0

## TEACHING/RESEARCH EXPERIENCE

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- **Senior Engineer** September 2024 - Present  
Qualcomm AI Research - Amsterdam, Netherlands
- **Summer School** July 2024  
International Computer Vision Summer School - Sicily, Italy
- **CVPR Workshop Co-Organizer** June 2024  
1st Workshop on Test-Time Adaptation: Model, Adapt Thyself! (MAT) - Seattle, USA
- **Research Internship** May 2023 - September 2023  
Qualcomm AI Research - Amsterdam, Netherlands
- **Research Internship** August 2022 - December 2022  
Intel AI Labs - Munich, Germany
- **Research Internship** October 2021 - February 2022  
University of Oxford - Oxford, United Kingdom
- **Teacher Assistance** January 2020 - May 2020  
Introduction to Computer Vision (Ph.D. course) - KAUST, Saudi Arabia
- **Guest Lecturer** (1 Lecture) July 2020  
Title: Adversarial Attacks and Network Robustness - Universidad Panamericana, Mexico

## SELECTED PUBLICATIONS

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(\* indicates equal contribution)

- MotaseM Alfarra, Alvaro Corriea, Bernard Ghanem, Christos Louizos. “Test-time Adaptation with Source Based Auxiliary Tasks”, **TMLR** 2025
- Merey Ramazanova, Alejandro Pardo, Bernard Ghanem, MotaseM Alfarra. “Combating Missing Modalities in Egocentric Videos at Test Time”, **ICLR** 2025
- MotaseM Alfarra, Juan C Pérez, Zhipeng Cai, Matthias Müller, Bernard Ghanem. “Revisiting Test Time Adaptation under Online Evaluation”, **ICML** 2024

- Motasem Alfarra, Zhipeng Cai, Adel Bibi, Bernard Ghanem, Matthias Müller. “SimCS: Simulation for Online Domain-Incremental Continual Segmentation”, **AAAI** 2024
- Kumail Alhamoud, Yasir Ghunaim, Motasem Alfarra, Thomas Hartvigsen, Philip Torr, Bernard Ghanem, Adel Bibi, Marzyeh Ghassemi, “FedMedICL: Towards Holistic Evaluation of Distribution Shifts in Federated Medical Imaging”, **MICCAI** 2024
- Yasir Ghunaim, Adel Bibi, Kumail Alhamoud, Motasem Alfarra, Philip H. S. Torr, Bernard Ghanem. “Real-Time Evaluation in Online Continual Learning: A New Hope”, **CVPR** 2023
- Kumail Alhamoud, Hasan Abed Al Kader Hammoud Motasem Alfarra, Bernard Ghanem. “Generalizability of Adversarial Robustness Under Distribution Shifts”. **TMLR [Featured]** 2023
- Motasem Alfarra\*, Francisco Eiras\*, M. Pawan Kumar, Philip H. S. Torr, Puneet K. Dokania, Bernard Ghanem, Adel Bibi\*. “ANCER: Anisotropic Certification via Sample-wise Volume Maximization”, **TMLR**. 2022
- Motasem Alfarra\*, Adel Bibi\*, Hasan Hammoud, Mohamed Gaafar and Bernard Ghanem. “On the Decision Boundaries of Neural Networks: A Tropical Geometry Perspective”, **TPAMI** 2022
- Motasem Alfarra, Juan C. Pérez, Anna Frühstück, Philip H. S. Torr, Peter Wonka, Bernard Ghanem. “On the Robustness of Quality Measures for GANs”, **ECCV** 2022
- Motasem Alfarra\*, Gabriel Pérez S.\*, Juan C. Pérez\*, Silvio Giancola, Bernard Ghanem. “3DeformRS: Certifying Spatial Deformations on Point Clouds”. **CVPR** 2022
- Motasem Alfarra\*, Adel Bibi\*, Naeemullah Khan, Philip H. S. Torr, Bernard Ghanem. “DeformRS: Certifying Input Deformations with Randomized Smoothing”, **AAAI [oral]**. 2022
- Motasem Alfarra, Juan C. Pérez, Ali Thabet, Adel Bibi, Philip H. S. Torr, Bernard Ghanem. “Combating Adversaries with Anti-Adversaries”, **AAAI**. 2022

## AWARDS AND HONORS

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- **KAUST Academic Excellency Award** July 2022  
Received the Academic Excellency Award of the academic year 2021/2022. Thuwal, Saudi Arabia.
- **Best Extended Abstract Award in LatinX Workshop at CVPR’22** June 2022  
For the work “Combating Adversaries with Anti-Adversaries”. New Orleans, USA
- **KAUST Fellowship** January 2019  
A fellowship provided to continue my MSc/PhD studies at KAUST. Thuwal, Saudi Arabia.
- **National Debating Competition** November 2017  
Won the national debating competition and was awarded as one of the top 10 debaters. Kuwait.
- **High School Examinations (6<sup>th</sup>/~23,000)** June 2014  
Kuwait, Kuwait.

## SKILLS

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- **Programming Skills and Software Packages**  
Python, Pytorch, C++, MATLAB, Git, Anaconda, Latex
- **Reviewer**  
CVPR, ICML, ICCV, NeurIPS, ICLR, TPAMI.