

# Eyad Alshami |

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## Education

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|---|---|
| <b>PhD in Computer Vision</b><br><i>Supervised by Prof Bernt Schiele</i>                            | <b>Max Planck Institute for Informatics</b><br>2024–Present |
| <b>M.Sc. in Data Science and Artificial Intelligence</b><br>GPA: 1.4                                | <b>Saarland University</b><br>2021–2024                     |
| <b>B.Sc. in Information Technology Engineering</b><br><i>Majored in Machine Learning</i><br>GPA 75% | <b>Damascus University</b><br>Class 2018                    |

## Masters Thesis

**Title:** *Retrospective Self-Guidance for Improved Feature Focus in Convolutional Networks*  
**Institution:** Max-Planck-Institut für Informatik  
**Supervisor:** Prof. Dr.-Ing. Margret Keuper, Research Leader of the Robust Visual Learning group at Max-Planck-Institut für Informatik  
**Examiner:** Prof. Dr. Bernt Schiele, Max Planck Director at the Max Planck Institute for Informatics.

## Experience

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| <b>Research Assistant</b><br><i>CISPA Helmholtz Center for Information Security</i><br>Developing an enhanced transferable method for jailbreaking large language models to improve response coherence and quality | <b>Saarbrücken, Germany</b><br>Sep 2023 - Present     |
| <b>Research Assistant</b><br><i>Max Planck Institute for Informatics</i><br>Conducted research in out-of-distribution Semantic Segmentation.   | <b>Saarbrücken, Germany</b><br>Jul 2023 - Nov 2023    |
| <b>Intern</b><br><i>ZF Group, Deep Learning Algorithms in Trajectory Prediction</i><br>Conducted literature review, developed Python modules, and assisted in Deep Learning algorithm implementation.              | <b>Saarbrücken, Germany</b><br>July 2022 - Aug 2022   |
| <b>Co-founder</b><br><i>Mujeeb LLC</i><br>Built and maintained microservices, and engineered NLP pipeline for customer queries using ML techniques.  | <b>Syria</b><br>Jan 2016 – Sep 2021                   |
| <b>Artificial Intelligence Researcher</b><br><i>AkeedOnline</i><br>Developed AI pipeline to detect fraudulent and manipulated images.  | <b>United Kingdom (Remote)</b><br>Sep 2015 - May 2016 |

## Projects and Implementations

**Adversarial Teacher Student Representation Learning for Domain Generalization (Yang, 2022)**  
*Implementation, Domain Generalization, PyTorch, No public implementation existed before.*  
Implemented from scratch. Uses teacher-student framework and adversarial training for domain-generalizable representations.

**Domain Generalization with MixStyle (Zhou, 2021)**  
*Implementation, Domain Generalization, PyTorch*  
Implemented from scratch. Makes CNNs domain-generalizable by mixing instance-level feature statistics across domains.

**Self-Challenging Improves Cross-Domain Generalization (Huang, 2020)**  
*Implementation, Domain Generalization, PyTorch*

Implemented from scratch. Discards representations with higher gradients each epoch to improve cross-domain generalization.

### **FixMatch: Simplifying Semi-Supervised Learning (Sohn, 2020)**

*Implementation, Semi-Supervised Learning, PyTorch*

Implemented from scratch. Uses Teacher-Student framework to distill knowledge and generate pseudo-labels for semi-supervised learning.

### **An Attention Free Transformer (Zhai, 2021)**

*Implementation, NLP, PyTorch*

Implemented from scratch. An efficient Transformer without attention.

### **Attention Is All You Need (Vaswani, 2017)**

*Implementation, NLP, PyTorch*

Implemented Transformer from scratch for Arabic-English translation using new parallel data.

### **Shepard Convolutional Neural Networks (Ren, 2015)**

*Implementation, Image Inpainting, PyTorch-Lightning, No public implementation existed before.*

Implemented from scratch. Realizes trainable translation variant interpolation.

## **Computer skills**

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- Proficient in **Python**, with a solid understanding of object-oriented programming principles and best practices.
- Proficient in **PyTorch**, with experience in developing deep learning models for image classification, object detection, and natural language processing tasks.
- Proficient in **JavaScript** and web development, with a solid knowledge of web development tools and frameworks, and the ability to design and implement scalable and maintainable web applications.

## **Languages**

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**Arabic:** Native

**English:** C1 - Professional Proficiency