

# Umut Özyurt

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## Research Statement

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My current research focuses on refining **stable diffusion** for personalized, high-fidelity image and video generation. I aim to build **controllable**, adaptable generative models that deliver both quality and diversity. Backed by experience in deep learning, face recognition, object detection, tracking, and thermal vision, I strive to push the boundaries of generative computer vision.

## Education

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**Middle East Technical University (METU / ODTÜ)** Ankara, Turkey  
*B.Sc. in Computer Science (Senior Year) CGPA: 3.88/4.00* 09/2020 – 06/2026

**Relevant Coursework:** Guided Research (currently taking); Deep Generative Models ([graduate](#)); Advanced Deep Learning ([graduate](#)); Deep Learning ([graduate](#)); Introduction to Machine Learning — all completed with 4.0/4.0.

## Publications

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**Meta-LoRA: Meta-Learning LoRA Components for Domain-Aware ID Personalization** – [paper link](#)  
*In Submission.*  
Baris Batuhan Topal, **Umut Özyurt**, Zafer Dogan Budak, R. Gokberk Cinbis

**GRACE: Generating Socially Appropriate Robot Actions Leveraging LLMs and Human Explanations** – [paper link](#)  
*International Conference on Robotics and Automation, ICRA 2025.*  
Fethiye Irmak Dogan, **Umut Özyurt**, Gizem Cinar, Hatice Gunes

**Enhanced Thermal Human Detection with Fast Filtering for UAV Images** – [paper link](#)  
*IEEE International Informatics and Software Engineering Conference, IISEC 2023, Oral Presentation.*  
**Umut Özyurt**, Begum Cicekdag, Zafer Dogan Budak, Seyda Ertekin

## Research Experience

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**METU ImageLab** | *Undergraduate Researcher* 09/2024 – Present  
Advisor: Assoc. Prof. R. Gökberk Cinbis; Conducting research on generative computer vision with state-of-the-art Stable Diffusion fine-tuning methods, dedicated to producing high-quality contributions in the field.

**University of Cambridge** | *Undergraduate Research Assistant* 07/2024 – 09/2024  
Advisor: Prof. Hatice Güneş; Conducted research at the AFAR (Affective Intelligence and Robotics) Laboratory, playing a key role in every stage of paper development—including experimental design, implementation, and writing—for a study on uncertainty prediction using machine learning. Contributed as the second author and established the baseline methodology.

**METU Intelligent Systems Laboratory** | *Undergraduate Researcher* 07/2023 – 07/2024  
Advisor: Assoc. Prof. Seyda Ertekin; Investigated thermal imaging for human detection by integrating edge computing devices (e.g., NVIDIA Jetson series) for real-time processing on UAVs.

## Professional Experience

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**Syntonym** | *Generative Computer Vision Researcher (Remote)* 09/2024 – Present  
Researching diffusion models for high-fidelity face anonymization, integrating Control-Net to enhance Stable Diffusion fine-tuning, and exploring text-to-image personalization techniques for models such as SD1.5, SDXL, and FLUX.

**Infodif** | *Computer Vision Engineer/Researcher* 01/2024 – 07/2024  
Developed and optimized a face recognition pipeline for the [Turkish National Police](#) utilizing multi-attribute recognition systems with custom deep learning architectures, designed to detect criminals even without having a stored face image.

**AsisGuard** | *Candidate Computer Vision Engineer/Researcher* 03/2023 – 12/2023  
Implemented innovative computer vision solutions and edge computing optimizations; developed algorithms deployed in real product settings, while coordinating with summer interns to integrate these solutions into ongoing projects.

# Projects

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## Advanced Style Transfer Implementation (Deep Generative Models Term Project)

Re-implemented the model and training pipeline of the CVPR 2023 paper "*Master: Meta Style Transformer for Controllable Zero-Shot and Few-Shot Artistic Style Transfer*", creatively resolving critical ambiguities stemming from missing explanations. The project was acknowledged as the most complex and successful work of the term among all graduate-level submissions. The code is now the only public implementation of the paper, available on the [GitHub page](#).

# Honors & Leadership

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**METU Development Foundation Scholarship:** Awarded for ranking in the Top 1000 among over 2.5 million applicants.

**High Honor Student:** Recognized for 7 consecutive semesters of academic excellence.

**Technical Lead, METU Artificial Intelligence Society:** Led society initiatives and projects to drive technical excellence.

# Technical Skills, Certifications, & Professional Service

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## Technical Skills

**Programming & Tools:** Python, C++, Git, LaTeX, Overleaf, Weights&Biases.

**Frameworks & Libraries:** PyTorch, TensorFlow, ONNX, Keras, OpenCV, Pandas, Scikit-learn, TensorRT.

**Research Skills:** Diffusion Models, Deep Learning, Machine Learning, Computer Vision, Object Detection, Object Tracking, Thermal Vision, Edge Device AI.

## Certifications & Academic Coursework

GAN, Deep Learning, and Machine Learning Specializations (DeepLearning.ai); AI courses from HarvardX and IBM.

## Peer Review & Professional Service

**CVPRW 2025,** CVPR AI for Creative Visual Content Generation Editing and Understanding Workshop (CVEU).

**AIIPCC 2024,** International Conference on Artificial Intelligence, Information Processing and Cloud Computing.

# Volunteering & Hobbies

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**AI4TR:** Volunteered since Dec 2023, delivering an AI and Computer Vision educational talk with 1000+ YouTube views and guiding aspiring learners with a structured roadmap and curated learning resources.

**Hobbies:** I enjoy swimming and playing tennis for physical activity and balance. I have a strong appreciation for classical music, which I express through playing the piano, violin, and viola. I also engage in mentally stimulating games such as chess and have a keen interest in cue sports, including 3-cushion billiards, snooker, and American billiards.

# References

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