Görkay Aydemir

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EDUCATION

Koc University   Istanbul, Turkey
M.Sc. in Computer Engineering   Sep 2023 – Now
CGPA: 4.00/4.00

Middle East Technical University   Ankara, Turkey
B.Sc. in Computer Engineering   Sep 2017 – Jul 2022
CGPA: 3.99/4.00, 2nd out of 2540

Ankara Science High School   Ankara, Turkey
High School Diploma   Sep 2013 – Jun 2017

RESEARCH EXPERIENCE

KUIS (Koc University - Is Bank) AI Center   Istanbul, Turkey
Research Intern   Nov 2021 – Sep 2023
- Conducted research on Unsupervised Video Object Segmentation under supervision of Dr. Fatma Guney and Dr. Weidi Xie
- Conducted research on Motion Forecasting of Autonomous Vehicles under supervision of Dr. Fatma Guney

University of Illinois at Urbana-Champaign (UIUC)   Champaign, Illinois, US
Research Intern   June 2021 – Nov 2021
- Conducted research on the interaction of ML systems in Autonomous Vehicles and end-to-end testing of them under supervision of Dr. Reyhaneh Jabbarvand

METU Image Processing and Pattern Recognition Lab   Ankara, Turkey
Research Intern   Aug 2020 – Sep 2020
- Worked on some Computer Vision related tasks including image processing and literature studies about Computer Vision-Deep Learning under supervision of Dr. Emre Akbaş

WORK EXPERIENCE

Codeway Studios   Istanbul, Turkey
AI Research Scientist   May 2023 – Oct 2023
- Worked on development of Generative AI solutions, specifically Diffusion Models

AI Research Engineer   Nov 2022 – May 2023
- Worked on reproduction and improvements of recent Generative AI methods

Havelsan   Ankara, Turkey
Intern   Aug 2021 – Sep 2021
- Worked on messaging between radars and internal systems. Specifically design and optimization of test cases

Simsoft   Ankara, Turkey
Intern   June 2019 – Aug 2019
- Worked on a simulation-game project

PUBLICATIONS

M. R. Barın, **G. Aydemir**, F. Güney, Robust Bird's Eye View Segmentation by Adapting DINOv2, European Conference on Computer Vision - VCAD Workshop, 2024

G. Aydemir, W. Xie, F. Güney, Can Visual Foundation Models Achieve Long-term Point Tracking?, European Conference on Computer Vision - EVAL-FoMo Workshop, 2024

G. Aydemir, W. Xie, F. Güney, Self-supervised Object-centric Learning for Videos, Conference on Neural Information Processing Systems (NeurIPS), 2023

G. Aydemir, A. K. Akan, F. Güney, ADAPT: Efficient Multi-Agent Trajectory Prediction with Adaptation, International Conference on Computer Vision (ICCV), 2023

G. Aydemir, A. K. Akan, F. Güney, Trajectory Forecasting on Temporal Graphs, arXiv preprint, arXiv:2207.00255, 2022

Professional Service

Reviewer: CVPR 2024/2025, ICLR 2025, ECCV 2024

Teaching: Teaching assistant at *Computer Vision with Deep Learning*, *Operating Systems*, and *Introduction to Computer Engineering* courses.

Achievements

Ranked 1st in CENG Demoday 2022 (METU Computer Engineering Department Graduation Project competition) with the project [DIP: Dynamic Insurance Pricing](#)

Ranked within the top 100 in the 2017 National University Entrance Exam over more than 2 million candidates

Research Interest

Point Tracking

Object-Centric Learning

Object Discovery

Skills

Programming Languages: Python, C, C++

Libraries and Frameworks: PyTorch, NumPy, Scikit-Learn

Languages: Turkish (Native), English (Professional)