

# Görkay Aydemir

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## EDUCATION

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### Koc University

*M.Sc. in Computer Engineering*  
CGPA: 4.00/4.00

Istanbul, Turkey

Sep 2023 – Now

### Middle East Technical University

*B.Sc. in Computer Engineering*  
CGPA: 3.99/4.00, 2<sup>nd</sup> out of 2540

Ankara, Turkey

Sep 2017 – Jul 2022

### Ankara Science High School

*High School Diploma*

Ankara, Turkey

Sep 2013 – Jun 2017

## RESEARCH EXPERIENCE

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### KUIS (Koc University - Is Bank) AI Center

*Research Intern*

Istanbul, Turkey

Nov 2021 – Sep 2023

- Conducted research on Unsupervised Video Object Segmentation under supervision of [Dr. Fatma Güney](#) and [Dr. Weidi Xie](#)
- Conducted research on Motion Forecasting of Autonomous Vehicles under supervision of [Dr. Fatma Güney](#)

### University of Illinois at Urbana-Champaign (UIUC)

*Research Intern*

Champaign, Illinois, US

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

*Research Intern*

Ankara, Turkey

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

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### Codeway Studios

*AI Research Scientist*

Istanbul, Turkey

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

*Intern*

Ankara, Turkey

Aug 2021 – Sep 2021

- Worked on messaging between radars and internal systems. Specifically design and optimization of test cases

### Simsoft

*Intern*

Ankara, Turkey

June 2019 – Aug 2019

- Worked on a simulation-game project

## PUBLICATIONS

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**G. Aydemir**, W. Xie, F. Güney, “[Can Visual Foundation Models Achieve Long-term Point Tracking?](#)”, European Conference on Computer Vision - EVAL-FoMo Workshop (ECCVW), 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

## ACHIEVEMENTS

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

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

## RESEARCH INTEREST

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Point Tracking

Object-Centric Learning

Unsupervised (Video) Object Detection/Segmentation

Trajectory Forecasting for Autonomous Driving

## SKILLS

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**Programming Languages:** Python, C, C++

**Libraries and Frameworks:** PyTorch, NumPy, Scikit-Learn

**Languages:** Turkish (Native), English (Professional)