

Merve Rabia Barın

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Education

M.Sc. Student in Computer Engineering
Koc University, *Istanbul*, Turkey
GPA: **3.81** / **4.00**

Sep 2022 - Present

B.Sc. in Computer Engineering
Bogazici University, *Istanbul*, Turkey
GPA: **3.71** / **4.00**

Sep 2017 - Jun 2022

Highschool Degree
Izmir Science Highschool, *Izmir*, Turkey

2013 - 2017

Research Interests

Computer Vision, Perception for Autonomous Driving, Generative Models, Synthetic Data

Research Experience

Graduate Student Researcher
Autonomous Vision Group, **KUIS AI**, Koc University

Oct 2022 - Present

- Working under the supervision of **Dr. Fatma Guney** to improve the **robustness** and **generalizability** of **Bird's Eye View (BEV)** perception models.

Undergraduate Student Researcher
Creative AI Technologies Lab, Bogazici University

Nov 2021 - Jun 2022

- Worked under the supervision of **Dr. Pınar Yanardag** on manipulating the latent space of pre-trained GANs to control specific attributes in generated images.

Undergraduate Student Researcher
TUBITAK¹

Feb 2021 – Aug 2021

- Worked with **Dr. Esra Erdem** on multi-agent pathfinding and combinatorial optimization, developing algorithmic solutions.

Undergraduate Student Researcher
Sabanci University

June 2020 – Aug 2020

- Analyzed and modeled Turkish TV series data from IMDb to predict their success using ML algorithms.

Publications

Barın, M. R., Aydemir, G., Güney, F. (2024). **Robust Bird's Eye View Segmentation by Adapting DINOv2**, European Conference on Computer Vision - 2nd Workshop on Vision-Centric Autonomous Driving (VCAD).

Doner, B., Balcioglu, E. S., **Barın, M. R.**, Kocasari, U., Tiftikci, M., Yanardag, P. (2022). **PaintInStyle: One-Shot Discovery of Interpretable Directions by Painting**, Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops (pp. 2288-2293).

Peer Review

IEEE International Conference on Robotics and Automation (ICRA), 2025

¹The Scientific and Technological Research Council of Turkey

Experience	<i>Teaching Assistant</i> Koc University, <i>Istanbul</i> , Turkey <ul style="list-style-type: none"> • COMP305, <i>Algorithms and Complexity</i> • COMP523, <i>Computer Vision for Autonomous Driving</i> • COMP100, <i>Introduction to Programming</i> 	Oct 2022 - Present
	<i>Data Science Intern</i> Hepsiburada.com, <i>Istanbul</i> , Turkey <ul style="list-style-type: none"> • Built a machine learning model to predict potential merchant churn, addressing the imbalanced data problem. 	Jan 2022 - Aug 2022
	<i>Artificial Intelligence Intern</i> Baykar Technology, <i>Istanbul</i> , Turkey <ul style="list-style-type: none"> • Implemented a real-time path planning algorithm that provides alternative paths for UAV and designed path shortener algorithm for polygonal paths. 	Jun 2021 - Jul 2021
Achievements & Scholarships	<i>Achievements</i> <ul style="list-style-type: none"> • Ranked 262th out of 2 million students in <i>National University Entrance Exam</i>, 2017 	
	<i>Scholarships</i> <ul style="list-style-type: none"> • <i>MSc Scholarship</i> by TUBITAK, Oct 2022 – Present – Acceptance Rate : 10% • <i>KUIS AI Fellowship Scholarship</i> by KUIS AI, Oct 2022 – Present • <i>vGHC EMEA Student Scholarship</i> by AnitaB.org, 2021 • <i>National Academic Achievement Scholarship</i> by KYK, Sep 2017 - Jun 2022 • <i>Research Assistant Intern Scholarship</i> by TUBITAK, Feb 2021 – Aug 2021 	
Technical Skills	<i>Programming Languages</i> <ul style="list-style-type: none"> • Python • C++ 	
	<i>Libraries & Frameworks</i> <ul style="list-style-type: none"> • PyTorch • NumPy 	