

Merve Rabia Barın

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[LinkedIn](#) [Github](#) [Google Scholar](#) [Website](#)

Education	<i>M.Sc. Student in Computer Engineering</i> Koc University, <i>Istanbul</i> , Turkey GPA: 3.81 / 4.00	Sep 2022 - Present
	<i>B.Sc. in Computer Engineering</i> Bogazici University, <i>Istanbul</i> , Turkey GPA: 3.71 / 4.00	Sep 2017 - Jun 2022
	<i>Highschool Degree</i> Izmir Science Highschool, <i>Izmir</i> , Turkey	2013 - 2017
Research Interests	<i>Computer Vision, Perception for Autonomous Driving, Generative Models, Synthetic Data</i>	
Research Experience	<i>Graduate Student Researcher</i> Autonomous Vision Group, KUIS AI , Koc University	Oct 2022 - Present
	<ul style="list-style-type: none">Working under the supervision of Dr. Fatma Guney to improve the robustness and generalizability of Bird's Eye View (BEV) perception models.	
	<i>Undergraduate Student Researcher</i> Creative AI Technologies Lab , Bogazici University	Nov 2021 - Jun 2022
	<ul style="list-style-type: none">Worked under the supervision of Dr. Pınar Yanardag on manipulating the latent space of pre-trained GANs to control specific attributes in generated images.	
	<i>Undergraduate Student Researcher</i> TUBITAK ¹	Feb 2021 – Aug 2021
	<ul style="list-style-type: none">Worked with Dr. Esra Erdem on multi-agent pathfinding and combinatorial optimization, developing algorithmic solutions.	
	<i>Undergraduate Student Researcher</i> Sabanci University	June 2020 – Aug 2020
	<ul style="list-style-type: none">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	<i>IEEE International Conference on Robotics and Automation (ICRA)</i> , 2025	

¹The Scientific and Technological Research Council of Turkey

Experience	<i>Teaching Assistant</i>	Oct 2022 - Present
	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> 	
	<i>Data Science Intern</i>	Jan 2022 - Aug 2022
	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. 	
	<i>Artificial Intelligence Intern</i>	Jun 2021 - Jul 2021
	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. 	
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 (Acceptance Rate : 10%), Oct 2022 – Present • <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 	
Languages	<ul style="list-style-type: none"> • English, <i>TOEFL: 109</i> • Turkish, <i>Native</i> 	