

Doğa Yılmaz ♥ Istanbul, Turkey

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EDUCATION	
2021 – 2023	M.Sc. in Artificial Intelligence – Özyeğin University
	 Faculty of Engineering, Department of Computer Science – Awarded Fellowship – GPA: 3.81/4.00
	Advisor: Assist. Prof. Dr. Furkan Kıraç
	Research Interests: Computer Vision, Computer Graphics, 3D Reconstruction, Inverse Rendering
	Thesis: Illumination-Guided Inverse Rendering Benchmark: Learning Real Objects with Few Cameras
2016 – 2020	B.Sc. in Computer Science – Özyeğin University
	Faculty of Engineering, Department of Computer Science
	Advisor: Assist. Prof. Dr. Furkan Kıraç
	Thesis: Deep Residual Autoencoder for Real Image Denoising
EXPERIENCE	-
11/2023 - Present	Research Intern
	University College London Computational Light Laboratory (CLL) – London, UK
	Conducted research in perceptual graphics and vision under Dr. Kaan Akşit's mentorship, in collaboration with Adobe Research.
	Contributed to the development of "Odak," an open-source scientific computing framework for optical sciences, computer graphics,
	and visual perception.
08/2022 – Present	Research Engineer
	Fishency Innovation – Stavanger, Norway
	Key contributor to the development of an inverse rendering-based state-of-the-art fish biomass estimation project, leading to a peer-reviewed and published algorithm, and a highly accurate system with over 90% accuracy in biomass estimation. Employed
	software tools, including Mitsuba 3, PyTorch, and Python.
	 Deployed and scaled the underwater fish biomass estimation software to the existing hybrid infrastructure.
	 Developed 2D/3D visualization tools to validate and debug several machine learning pipelines.
02/2021 – 10/2023	Graduate Research & Teaching Assistant
	Özyeğin University Vision and Graphics Laboratory (VGL) – Istanbul, Turkey
	• Actively participated in research mainly on inverse rendering and auto-white balance correction, yielding multiple publications.
	Contributed as a teaching assistant across a range of university courses, offering academic support and guidance to students.
	Courses Assisted: Advanced C++ Programming, Programming Paradigms, Data Structures and Algorithms, Object-Oriented Pro-
	gramming, Agile Software Development
	Academic Service: Reviewer, RUV Workshop ICUV; Reviewer, Rescience C Journal
PUBLICATIONS	Kinli F. Vilmaz D. Özcan B. and Kirac F. DaNIM: Deterministic Neural Illuminant Manning for Efficient Auto-White Balance Correction
2020	IEFE ICCV Workshop on Resource Efficient Deep Learning for Computer Vision. 2023.
2023	VImaz D. Kirac F. Illumination-quided inverse rendering benchmark: Learning real objects with few cameras. Computers & Graphics
2020	115, 107-121.
2023	Kınlı, F., Yılmaz, D. , Özcan, B., and Kıraç, F., Modeling the Lighting in Scenes as Style for Auto White-Balance Correction, IEEE/CVF Winter Conference on Applications of Computer Vision (WACV). 2023.
2022	Vilmaz D. Kinli F. Özcan B. and Kirac F. "[Re] Lifting 2D StyleGAN for 3D-Aware Face Generation" ReScience C. 8(2) 2022. Presented
2022	at NeurIPS 2022 Journal Track.
PROJECTS	
02/2022 - 06/2022	Ray Tracing Parallelization With OpenMP
	• Conducted an in-depth analysis of a C++ ray tracing implementation with VTune profiler, identifying critical performance hotspots.
	Parallelized the sequential ray tracing implementation using OpenMP.
	Benchmarked sequential versus parallel code, assessing CPU use, time, and memory/cache allocation with VTune and Valgrind,
	observed up to 300 times performance improvement.
SKILLS	English: Advanced (IELTS: 7.5/9). German: Beginner Turkish: Native
Programming	Python Modern $C++(17/20)$ Java
Toobhologios	Python, Wodern Ch (17720), Java
	Py forch, Elb forch, Mitsuba 3, Kornia, Opency, OpenMP, AwS(S3, EC2, Rekognition), Docker, Biendersb
02/2024	Honored with a financial award by the Scientific and Technological Research Council of Turkev ¹ for contributions to international
02,202,	research.
10/2020	Ranked 1st in Turkey and 172nd globally out of 2155 teams in IEEEXtreme ² 14 programming competition.
2020	Led the organization of Global Game Jam (GGJ) ³ 2020 at Özyeğin University.
2019	Coordinated the IEEE Computer Society Özveğin University Student Branch in the 2019 academic year

¹The Scientific and Technological Research Council of Turkey (TÜBİTAK) serves as the governmental agency responsible for the scientific and technological affairs of Turkey.

²IEEEXtreme is a global challenge in which teams compete in a 24-hour time span against each other to solve a set of programming problems.

³Global Game Jam® (GGJ) is the world's largest game jam (game creation) event taking place around the world.