

Kaan KARAMAN

E-mail: kaankaramanofficial@gmail.com
Personal Page / Scholar / Linkedin / Twitter

EDUCATION

Doctorate of Philosophy

2021 - 2025 (expected)

University of Zurich, Zurich, Switzerland
Institute for Computational Science
Specialized in Data Science
CGPA: 5.38 / 6.00
Thesis Topic: Deforestation Detection via SAR Image Time Series
Advisor: Prof. Dr. Jan D. Wegner

Master of Science

2017 - 2021

Middle East Technical University, Ankara, Turkey
Electrical and Electronics Engineering Department
Specialized in Signal Processing
CGPA: 3.79 / 4.00
Thesis: Deep Metric Learning with Distance Sensitive Entangled Triplet Losses
Advisor: Prof. Dr. A. Aydin Alatan

Bachelor of Science

2012 - 2017

Middle East Technical University, Ankara, Turkey
Electrical and Electronics Engineering Department
Specialized in Biomedical Engineering and Imaging
CGPA: 3.81 / 4.00 (Ranked 9th among 375 senior level students)

Double Major

2013 - 2017

Middle East Technical University, Ankara, Turkey
Physics Department
Specialized in Mathematical Physics and Relativity
CGPA: 3.67 / 4.00

Preparatory School

2011 - 2012

Middle East Technical University, Ankara, Turkey

High School

2007 - 2011

Adem Tolunay Anatolian High School, Antalya, Turkey
Specialized in Mathematics and Science
CGPA: 86.61 / 100.00

HONORS

Dean's High Honor List ($\times 8$)

Semester GPA $> 3.5/4.0$

Dean's Honor List ($\times 1$)

$3.0/4.0 < \text{Semester GPA} < 3.5/4.0$

IEEE Signal Processing Society Travel Grant

In 26th IEEE International Conference on Image Processing (ICIP), 2019

Graduate Scholarship

The Scientific and Technological Research Council of Turkey (TUBITAK)

PUBLICATIONS

Karaman, K., Garnot, V. S. F. & Wegner, J. D. (2023, September). Deforestation detection in the amazon with sentinel-1 sar image time series. ISPRS Geospatial Week 2023. (*Accepted*)

Karaman, K., & Alatan, A. A. (2021, September). Metu loss: metric learning with entangled triplet unified loss. In 28th IEEE International Conference on Image Processing (ICIP). IEEE.

Kayabasi, A., **Karaman, K.**, & Akkaya, I. B. (2021, April). Comparison of distance metric learning methods against label noise for fine-grained recognition. In Automatic Target Recognition XXXI (Vol. 11729, p. 117290F). International Society for Optics and Photonics (SPIE).

Akkaya I. B., & **Karaman, K.** (2020, May). A robust technique for real-time face verification with a generative network. In Real-Time Image Processing and Deep Learning (Vol. 11401, p. 1140107). International Society for Optics and Photonics (SPIE).

Karaman, K., Akkaya I. B., Solmaz B., & Alatan A. A. (2020, October). A face recognition technique by representative learning with the quadruplets. In 28th Signal Processing and Communications Applications Conference (SIU). IEEE.

Karaman, K., Akkaya I. B., & Alatan A. A. (2020, October). Metric learning with quadruplets on non-hierarchical labeled datasets. In 28th Signal Processing and Communications Applications Conference (SIU). IEEE.

Karaman, K., Gundogdu, E., Koc, A., & Alatan, A. A. (2019, September). Quadruplet selection methods for deep embedding learning. In 26th IEEE International Conference on Image Processing (ICIP). IEEE.

Karaman, K., & Akkaya I. B. (2019, October). Semi-supervised adversarial training of a lightweight neural network for visual recognition. In Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II (Vol. 11166, p. 111660O). International Society for Optics and Photonics (SPIE).

Solmaz, B., & **Karaman, K.** (2019, April). Modeling human activities via long short term memory networks. In 27th Signal Processing and Communications Applications Conference (SIU). IEEE.

Karaman, K., Koc, A., & Alatan, A. A. (2018, October). Face recognition based on embedding learning. In Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II (Vol. 10802, p. 108020J). International Society for Optics and Photonics (SPIE).

Karaman, K., Gundogdu, E., Koc, A., & Alatan, A. A. (2018, May). A method for quadruplet sample selection in deep feature learning. In 26th Signal Processing and Communications Applications Conference (SIU). IEEE.

Solmaz, B., Gundogdu, E., **Karaman, K.**, Yucesoy, V., & Koc, A. (2017, October). Fine-grained visual marine vessel classification for coastal surveillance and defense applications. In Electro-Optical Remote Sensing XI (Vol. 10434, p. 104340A). International Society for Optics and Photonics (SPIE).

WORK EXPERIENCE	Research Engineer ASELSAN Research Center	July 2017 - July 2021
	Internship Anketek	August 2016 - September 2016
	Internship ASELSAN	June 2015 - July 2015
EXTRA- CURRICULAR ACTIVITIES	METU Information Office for Newcomers Volunteer	2013-2017
	CERN, a 2-day technical tour Accompanied by Prof. Dr. Bilge Demirköz	August 2013
	METU Gastronomy Society Organized Society Events	2013-2014
	METU Debate Society Quarter-finalist of Bogazici University Debate Tournament (January 2011) Organized Society Events	2011-2013
LANGUAGE	Turkish: Native English: Advanced German: Beginner	
SKILLS	Operating Systems Ubuntu, Windows.	
	Package Programs Microsoft Office Programs, L ^A T _E X, PyCharm, LTspice, Key Creator, Agilent VEE, LabVIEW, Xilinx VIVADO.	
	Programming Languages Python, MATLAB, C++, Verilog.	
	Libraries in Python PyTorch, Pandas, OpenCV, Numpy, Scikit-Learn, SciPy, Matplotlib, Seaborn.	
REFERENCES	Available upon request	