# Kaan KARAMAN

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Personal Page / Scholar / Linkedin / Twitter

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| **EDUCATION** | **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 $9^{th}$ 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** ($\times 1$)
$3.0/4.0 <$ 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.**, & Alatan, A. A. (2021, September). Metu loss: metric learning with entangled triplet unified loss. In 28th IEEE International Conference on Image Processing (ICIP). IEEE. **(submitted)**

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).

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| **WORK EXPERIENCE** | **Research Engineer**<br>ASELSAN Research Center | July 2017 - Present |
| | **Internship**<br>Anketek | August 2016 - September 2016 |
| | **Internship**<br>ASELSAN | June 2015 - July 2015 |
| **EXTRA-CURRICULAR ACTIVITIES** | **METU Information Office for Newcomers**<br>Volunteer | 2013-2017 |
| | **CERN, a 2-day technical tour**<br>Accompanied by Prof. Dr. Bilge Demirkoz | August 2013 |
| | **METU Gastronomy Society**<br>Founder Member<br>Organized Society Events | 2013-2014 |
| | **METU Debate Society**<br>Quarter-finalist of Bogazici University Debate Tournament (January 2011)<br>Organized Society Events | 2011-2013 |

**LANGUAGE**

Turkish: Native
English: Advanced

**SKILLS**

**Operating Systems**
Ubuntu, Windows.

**Package Programs**
Microsoft Office Programs, LaTeX, PyCharm, LTspice, Key Creator, Agilent VEE, LabVIEW, Xilinx VIVADO, Altera QUARTUS.

**Programming Languages**
Python, MATLAB, C++, Verilog.

**Libraries in Python**
PyTorch, OpenCV, Numpy, Matplotlib, Scikit-Learn.

**REFERENCES**  Available upon request