

Osman Furkan KAR

Curriculum Vitae

PERSONAL DETAILS

Mail	okar@ucsd.edu osmanfurkankar@hotmail.com
Interests	Graph Signal Processing, Machine Learning, Deep Learning
Website	https://osmanfurkankar.com

EDUCATION

Ph.D. Electrical & Computer Engineering <i>University of California San Diego, California, US</i> Signal and Image Processing Research Area. Ph.D. Student with ECE Department Fellowship	2023-
MSc. Electrical & Electronics Engineering <i>Middle East Technical University, Ankara, Turkey</i> Signal Processing Field. Thesis: Estimation Of Partially Observed Graph Signals By Learning Spectrally Matched Graph Dictionaries Advisor: Assoc. Prof. Elif VURAL	2020-2023
BSc. Electrical & Electronics Engineering <i>Middle East Technical University, Ankara, Turkey</i> Specialized in Telecommunications and Signal Processing Areas.	2016-2019
BSc. Mechanical Engineering <i>Bilkent University, Ankara, Turkey</i> Left as a Sophomore with 2nd Rank in the Department.	2014-2016

WORK EXPERIENCE

Expert Engineer & Radar Systems Architect <i>ASELSAN - REHIS, Ankara, Turkey</i> Responsible Expert Systems Engineer	2023 - 2023
Radar Systems Architect <i>ASELSAN - REHIS, Ankara, Turkey</i> Responsible Systems Engineer	2022 - 2022
Algorithm Design Engineer II <i>ASELSAN - REHIS, Ankara, Turkey</i> Radar Signal Processing, Radar Data Processing, Radar Systems Simulation Modelling	2021 - 2022
Algorithm Design Engineer <i>ASELSAN - REHIS, Ankara, Turkey</i> Radar Signal Processing, Radar Data Processing, Radar Systems Simulation Modelling	2019 - 2021
Engineering Intern <i>TUBITAK UZAY, Ankara, Turkey</i> Developed Stereo Vision Depth Estimation Systems for Computer Vision Related Works	2018
Engineering Intern <i>ASELSAN - REHIS, Ankara, Turkey</i>	2018

Implemented Supervised Learning Methods for Target Detection in Pulse-Doppler-Radar Systems.

Research Intern

2017

Optical Microsystems Laboratory, Koç University, Istanbul, Turkey

Developed Smart Glove and Typing Methods for Enhancing User Experience in Augmented Reality (AR) Applications

Research Intern

2016

Optical Microsystems Laboratory, Koç University, Istanbul, Turkey

Developed a system that is able to construct 3D models of archaeological artifacts by using Reflectance Transformation Imaging (RTI)

RESEARCH

- **O.F. Kar**, G. Turhan, E. Vural. "Learning Graph Signal Representations with Narrowband Spectral Kernels". IEEE International Workshop On Machine Learning For Signal Processing, 2022. (**Accepted, Oral Presentation**)
- **O.F. Kar**, G. Turhan, E. Vural. "Learning Narrowband Graph Spectral Kernels for Graph Signal Estimation". IEEE Signal Processing and Communications Applications Conference (SIU). 2022. (**Accepted, Oral Presentation**)
- V. P. Ghouschi, A. Arslan, **O.F. Kar**, M. Yazıcı. "Reconstruction of 3D Images of Archaeological Objects Using RTI Dome Method". 18. National Optic, Electro-Optic and Photonics Workshop, Bilkent University. 2016.

ACCOMPLISHMENTS

- University of California San Diego, Electrical & Computer Engineering **Ph.D. Fellowship**
- ALES 2018-2 (National GRE)(30.09.2018) : Quantitative: 94.35/100, **Ranked: 309** in nationwide
- 2014 National University Entrance Exam: Ranked **%0.1** among 2+ million students in both 2 Steps
- 2010 National High School Entrance Exam: Ranked **%0.1** among 1+ million students in the end of three steps.
- 2008 National High School Entrance Exam: Ranked **1st** among 1+ million students in the first step of three

SKILLS

<i>Languages</i>	Turkish (native) English (fluent)
<i>Software</i>	MATLAB, Simulink, C++, C, Python, PyTorch, Linux, Bash \LaTeX

INTERESTS

Played FIFA at an advanced level, Play Billiards, Enjoy Acoustic Guitar
Video Editing and Answering on Quora.