



Oğuzhan Fatih Kar

PERSONAL DETAILS

Birth August 24, 1994
Mail oguzhan.kar@metu.edu.tr

EDUCATION

M.S. in Electrical and Electronics Engineering

2017-present

Middle East Technical University, Ankara, Turkey

Concentration in Signal Processing.

Advisor: Assist. Prof. Figen S. Oktem

Thesis: Compressed sensing optical imaging with application to compressive photon sieve spectral imager

GPA: 3.90/4.00

B.S. in Electrical and Electronics Engineering

2013-2017

Middle East Technical University, Ankara, Turkey

Concentration in Signal Processing and Telecommunications areas. Graduated with High Honors.

GPA: 3.90/4.00

WORK EXPERIENCE

Research Engineer

2017-present

ASELSAN Research Center, Ankara, Turkey

- Developed novel reconstruction techniques for compressive infrared imaging.
- Built optical setup for experimentally analyzing compressive infrared imaging.

Research Intern

2016

ASELSAN Research Center, Ankara, Turkey

- Developed and implement non-uniformity correction algorithms for infrared imaging.

Research Intern

2015

TUBITAK SAGE, Ankara, Turkey

- Developed and implement communication protocols between FPGA and ADC.

SKILLS

<i>Languages</i>	Turkish (mother tongue) English (fluent) German (beginner)
<i>Software</i>	MATLAB, Python, TensorFlow, Caffe, C, C++, LabVIEW, Verilog, LaTeX

AWARDS AND HONORS

TUBITAK (Scientific and Technical Research Council of Turkey): Full scholarship for M.S. studies

IEEE: Travel award for ICIP 2018

METU EEE Department: Dr. Bulent Kerim Altay award for 4.0/4.0 GPA in Fall 2015 semester

METU EEE Department: Best Poster Presentation award in GRAD STAR 2018 Poster Competition

8 times listed in Dean's High Honor Roll, Middle East Technical University, 2013-2017

Ranked 228th in National University Entrance Exam 1st stage among 2 million students

Ranked 159th in National University Entrance Exam 2nd stage among 2 million students

PUBLICATIONS

Conference Publications

1. **O. F. Kar**, A. Gungor, S. Ilbey, C. B. Top, H. E. Guven, "A performance analysis on the optimal number of measurements for coded compressive imaging." IEEE Global Conference on Signal and Information Processing (GLOBALSIP). 2018.
2. A. Gungor, **O. F. Kar**, H. E. Guven, "A matrix-free reconstruction method for compressive focal plane array imaging." International Conference on Image Processing (ICIP). 2018.
3. **O. F. Kar**, U. Kamaci, F. C. Akyon, F. S. Oktem, "Compressive photon-sieve spectral imaging." OSA Imaging and Applied Optics Congress. 2018.
4. **O. F. Kar**, A. Gungor, S. Ilbey, H. E. Guven, "An efficient parallel algorithm for single-pixel and FPA imaging." SPIE Defense and Commercial Sensing Conference. 2018.
5. **O. F. Kar**, A. Gungor, H. E. Guven, "An adaptive relaxed alternating direction method of multipliers for compressive focal plane array imaging." Signal Processing and Communications Applications Conference (SIU). 2018.
6. **O. F. Kar**, U. Kamaci, F. C. Akyon, F. S. Oktem, "Effect of different sparsity priors on compressive photon-sieve spectral imaging." Signal Processing and Communications Applications Conference (SIU). 2018.

Journal Publications

1. **O. F. Kar**, F. S. Oktem, "Compressive diffractive spectral imaging using photon-sieves." In preparation.
2. **O. F. Kar**, F. S. Oktem, "Super-resolution in photon-sieve spectral imaging." In preparation.

REFERENCES

- **Asst. Prof. Figen S. Oktem**

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- **Prof. Ali Ozgur Yilmaz**

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