

## EDUCATION

<b>Delft University of Technology</b> <i>PhD</i>	Delft, Netherlands
<b>Norwegian University of Science and Technology</b> <i>MSc in Applied Computer Science</i>	Gjovik, Norway 2016 – 2018
<b>Middle East Technical University</b> <i>BSc in Electrical and Electronics Engineering</i>	Ankara, Turkey 2012 – 2016

## RESEARCH INTERESTS

Computer Vision  
 Machine Learning  
 Optimization

## PUBLICATIONS

- S. Bolkar**, *Soft Segmentation of Viral Labeled Neurons*, MSc Thesis, KU Leuven (Neuro-electronics Flanders) and Norwegian University of Science and Technology, 2018
- S. Bolkar**, C. Wang, F. Cheikh, S. Yildirim *Deep Smoke Removal From Minimally Invasive Surgery Videos*, in Proceedings of the IEEE International Conference on Image Processing (ICIP), 2018
- S. Bolkar** & O. Ozcelik, *Bio-Spectral Imaging*, Research Report, 2015

## HONORS & AWARDS

<i>Neuro-electronics Research Flanders MSc Thesis Scholarship</i>	Spring 2018
<i>EU Mundus Master Joint Degree Full Scholarship</i>	2016 - 2018
<i>Best Research Poster Award in METU Undergraduate Research Fair</i>	May 2015
<i>Erasmus Summer Internship Grant</i>	Summer 2014
<i>Scholarship of METU Alumni Association</i>	2014 - 2016
<i>Scholarship of Prime Ministry of Turkey</i>	2010 - 2015
<i>Ranked at the top 0.5% in National University Entrance Examination</i>	2010

## EXPERIENCE

<b>Neuro-electronics Research Flanders, KU Leuven &amp; IMEC</b> <i>MSc Thesis Researcher</i>	Leuven, Belgium January - July 2018
<b>Soft Segmentation of Viral Labeled Neurons.</b> Retinal ganglion cells have complex structures and dendritic arborization is crucial for their identification. The project aims to separate and reconstruct occluded individual neurons from viral labelled confocal microscopy image stacks Advisor: Karl Farrow	
<b>Gestalt-ReVision, KU Leuven</b> <i>Visiting Scholar</i>	Leuven, Belgium July - August 2017
<b>Image Memorability.</b> The project seeks to understand memorability of images from perceptual grouping point of view by using deep neural networks Advisor: Johan Wagemans	
<b>Mikro-Tasarm Electronics Inc.</b> <i>IC Engineering Intern</i>	Ankara, Turkey August - September 2015
<b>Digital Circuit Design.</b> The project is mainly on developing FPGA prototypes of a digital oscilloscope and a tunable clock management circuit by using Verilog	
<b>KocSistem Inc.</b> <i>Computer Networking Intern</i>	Ankara, Turkey June - August 2015

**Network Design.** The project aims to design and simulate network architecture of a company with multiple branches on hardware and software

**Technical University of Denmark**

*Neuroengineering Intern*

Lyngby, Denmark

*June - September 2014*

**Neurorehabilitation.** It is a summer research project that targets development of feature extraction algorithms from EEG signals to be used in a brain computer interface for rehabilitation of ADHD

Advisor: Sadasivan Puthusserypady

## SKILLS

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**Language:** Turkish (Native), English (IELTS-7.5/9), Bokmal (Elem.)

**Programming:** Matlab, Python, C/C++, R, Verilog, Assembly-68HC11, LaTeX

**Libraries:** Caffe, Keras, OpenCV, LIBSVM/LIBLINEAR, Scipy, Scikit-Learn, EEGLAB

**Computer Programs:** Blender, AutoCAD, Cadence Virtuoso, Agilent VEE, Altera Quartus, Xilinx ISE, LTspice, Office Suites, Adobe Photoshop and Illustrator