

AYŞENUR ESER

Electrical and Electronics Engineering
Istinye University ◊ Zeytinburnu/Istanbul, 34010 Turkey
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EDUCATION

Doctor of Philosophy, Electrical Engineering
Yıldız Technical University, Istanbul, Turkey Present

Master of Science, Biomedical Engineering
Koç University, Istanbul, Turkey June 2018
100 % Scholarship
THESIS: Modeling and Simulation of PDMS Micropillars for Microfluidic Viscometer Applications

Bachelor of Science, Electrical and Electronic Engineering
Istanbul Şehir University, Istanbul, Turkey June 2015
100 % Scholarship

PROFESSIONAL EXPERIENCE

Istinye University February 2020 - Present
Research Assistant Istanbul, Turkey

Koç University, Istanbul, Turkey
School of Medicine September 2016 – June 2017

- Teaching Assistant at **MSKL 202**; Physiology, Spring 2017
- Teaching Assistant at **MSKL 202**; Physiology, Fall 2017

Graduate School of Sciences and Engineering September 2015 – June 2016

- Teaching Assistant at **PHYS 206**; Physics IV, Spring 2016
- Teaching Assistant at **PHYS 101**; Physics I, Fall 2016

Istanbul Şehir University, Istanbul, Turkey
Department of Engineering and Natural Sciences September 2014 – June 2015

- Teaching Assistant at **EE 332**; Microprocessors/FPGA, Spring 2015
- Teaching Assistant at **EE 301**; Circuit Analysis, Fall 2015

Department of Engineering and Natural Sciences September – January 2013

- Voluntary Teaching Assistant at **PHYS 104**; Physics II, Fall 2013

TÜBİTAK, BİLGEM, Izmit, Turkey June - August 2012
Internship

- Conducted a research to understand the imaging systems of hyperspectral cameras.
- Learned a new programming language(VHDL).

TECHNICAL STRENGTHS

Programming Languages

- HTML, MATLAB, VHDL

Simulation and 3D Design Softwares

- SketchUp, Adobe Illustrator, AutoCAD, COMSOL, Ansys

Practical Experiences

- 2 years of Clean Room Experience, Lithograph Processes, Microfabrication, Microfluidic Systems, Image Analysis(ImageJ)

PUBLICATIONS

- Ugurel E, Piskin S, Aksu AC, Eser A and Yalcin O (2020) From Experiments to Simulation: Shear-Induced Responses of Red Blood Cells to Different Oxygen Saturation Levels. *Front. Physiol.* 10:1559. doi: 10.3389/fphys.2019.01559
- Mustafa, A., Erten, A., Ayaz, R. M. A., Kayılloğlu, O., Eser, A., Eryürek, M., ... Kiraz, A. (2016). Enhanced Dissolution of Liquid Microdroplets in the Extensional Creeping Flow of a Hydrodynamic Trap. *Langmuir*, 32(37), 9460–9467. <http://doi.org/10.1021/acs.langmuir.6b02411>

CONFERENCE PRESENTATIONS AND POSTERS

- Erten, A., Eser A., Mustafa A., Aksu C., Yalçın Ö. (2018). 3D Printed Mold Development for Fabrication of High Aspect Ratio PDMS Micropillars. 3rd International Congress on 3D Printing Technologies and Digital Industry 2018, Antalya; Turkey.
- Erten A., Mustafa, A., Eser A., Yalçın Ö. (2017). High Aspect Ratio Micropillar Array Based Microfluidic Viscometer. WASET 2017, Prague; Czech Republic.
- Eser A., Erten A., Mustafa, A., Yalçın Ö. (2017). Assessment of High Aspect Ratio Micropillar Array Displacement at Different Viscosities. BIOMED 2017, ankara; Turkey.
- Eser A., Gun E., Imeci T. (2014). Multiple E-Shaped Rectangular Microstrip Patch Antenna. ACES 2014, Jacksonville/Florida; USA.

PROJECTS

- 115S120, Development of a portable thromboelastometry device for evaluating the coagulation pathway, 1003 - Priority Areas Research Project.Scholarship Student Period: Oct 2015 - April 2018

INTERESTS

Classical piano, racket sports, travel