

# Onur Beker

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Phone: +905312539641

## EDUCATION

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### EPFL

*Computer and Communication Sciences*  
*EDIC Fellowship Program - Project Student*

2020 - Present

### Tsukuba University

*Humanities and Social Sciences*  
*One-year Cultural Exchange Program (Gap Year)*

2017 - 2018

### Bogazici University

*Electrical and Electronics Engineering*  
*GPA: 3.84/4.00 – Highest Honors*

2015 - 2020

### Bogazici University

*One-year English Preparatory Program*  
*Passing Grade: A*

2014 - 2015

### Izmir Science High School

*High School*  
*GPA: 95.27/100.00*

2010 - 2014

## RESEARCH EXPERIENCE

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### Max Planck Institute for Intelligent Systems

*Research Intern at Physical Intelligence Department*

Summer 2018

Stuttgart, Germany

- Developed a new method for self-assembly and actuation of microrobots.  
For details, please check our corresponding publication in *Nature Materials*.

### Harvard-MIT Health Sciences & Technology/MGH, Athinoula A. Martinos Center for Biomedical Imaging

*Research Intern at MR Physics and Instrumentation Group*

Summer 2019

Boston, U.S

- Built a learning-based MRI artifact reduction method. Details of our work can be found in the corresponding publication in *ISMRM*.

## PUBLICATIONS

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- Yunus Alapan, Berk Yigit, **Onur Beker**, Ahmet F. Demirörs, Metin Sitti. “Shape-encoded programmable dynamic assembly of mobile micromachines”. *Nature Materials*, 2019.
- **Onur Beker**, Congyu Liao, Jaejin Cho, Zijing Zhang, Kawin Setsompop, and Berkin Bilgic. “Scan-specific, Parameter-free Artifact Reduction in K-space (SPARK)”. *ISMRM*, 2020.

- Jaejin Cho, Congyu Liao, Zijing Zhang, Wei-Ching Lo, Jinmin Xu, **Onur Beker**, Kawin Setsompop, and Berkin Bilgic. “Highly Accelerated EPI with Wave Encoding and Multi-shot Simultaneous MultiSlice Imaging”. *ISMRM*, 2020.

## SCHOLARSHIPS AND AWARDS

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### **EPFL EDIC Fellowship (2020 – 2021)**

*Awarded by EPFL School of Computer and Communication Sciences*

### **JASSO Scholarship for Short Term Study in Japan (2017 – 2018)**

*Awarded by the Japanese Ministry of Education, Culture, Sports, Science and Technology.*

### **BUMED Extensive Success Scholarship (2014 – 2020)**

*Awarded by Bogazici University Alumni Association*

### **Merit Based Prime Ministry Scholarship for Higher Education (2014 – 2020)**

*Awarded by Turkish Government for 65<sup>th</sup> degree in undergraduate placement examination, out of 2 million students.*

## SKILLS

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- **Languages:** Python, C/C++, MATLAB
- **Libraries:** NumPy/SciPy, Sklearn, Pytorch, Tensorflow, OpenCV
- **Design/Simulation Environments:** Solidworks, COMSOL, PSpice, XILINX
- **Other:** Linux, Bash Scripting, COLMAP, Mitsuba

## LANGUAGES

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- **English:** Professional (TOEFL IBT score: 112/120, GRE Verbal Score: 163/170)
- **Turkish:** Native Speaker
- **Japanese:** Conversational (JLPT N3)