Onur Beker

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EDUCATION

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 – High Honors

2015 - 2020

Bogazici University
One-year English Preparatory Program

2014 - 2015

Izmir Science High School
High School

2010 - 2014

RESEARCH EXPERIENCE

Max Planck Institute for Intelligent Systems
Research Intern at Physical Intelligence Department

Summer 2018
Stuttgart, Germany

- *Worked on developing a new method for self-assembly and actuation of microrobots.*

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

- *Worked on developing a learning-based MRI artifact reduction method.*

PUBLICATIONS

- 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

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 ranking 65th in undergraduate placement examination

SKILLS

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

LANGUAGES

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