

RESEARCH INTERESTS

Machine learning, computational biology, proteomics, biomedical data science

EDUCATION

University of Washington

Ph.D. in Computer Science
Advisor: Prof. William Noble

Seattle, WA

Sep 2020–Current

Koc University

B.S. in Electrical and Electronics Engineering
GPA: 4.00/4.00, Ranked 1st in the class

Istanbul, Turkey

2015–2020

Osaka University

Center for Japanese Language and Culture, MEXT Scholar

Osaka, Japan

Apr 2016–Jan 2017

EXPERIENCE

University of Washington

Ph.D. Student, (Supervisors: William Noble, Sewoong Oh)

Seattle, WA

Sep 2020–Current

- Working on representation learning for tandem mass spectra and de novo peptide sequencing with deep learning.

Stanford University

Research Intern, (Supervisor: Tina Hernandez-Boussard)

Stanford, CA

Summer 2019

- Modeled post-chemotherapy patient reported outcomes and electronic health records (EHRs) for cancer patients.
- Performed trajectory clustering and risk group classification to identify vulnerable patient populations.

Koc University

Undergraduate Research Assistant, (Supervisor: Murat Tekalp)

Istanbul, Turkey

Fall 2018, Fall 2019

- Worked on learned video compression and future video frame prediction using deep learning.

Sumitomo Electric Industries

Machine Learning Intern

Osaka, Japan

Summer 2018

- Developed deep learning models to semantically segment satellite images.

PUBLICATIONS

- [1] A. Azad, **M. Yilmaz**, S. Bozkurt, J. Brooks, D. Blayney, and T. Hernandez-Boussard, “Diverse Patient Trajectories during Cytotoxic Chemotherapy: Capturing Longitudinal Patient Reported Outcomes”, *Cancer Medicine*, 2021.
- [2] G. Ozsoy *, **M. Yilmaz** *, O. Kirmemis, and M. Tekalp, “New results in end-to-end image and video compression by deep learning”, in *IEEE Signal Processing and Communications Applications Conference (SIU)*, 2020.

SCHOLARSHIPS AND AWARDS

- **Paul G. Allen School First-Year Ph.D. Fellowship** 2020
- **Monbukagakusho (MEXT) Scholarship in Science** 2016
 - Awarded by Japanese Ministry of Education, Culture, Sports, Science and Technology
- **Turkish Government High Honour Scholarship** 2015
 - Awarded based on ranking (14th out of 1.8 million students) in National University Entrance Exam
- **Koc University Suna Kirac Scholarship** 2015
 - Full tuition waiver and stipend during the B.Sc. based on National University Entrance Exam rank

SKILLS

- **Programming Languages and Tools:**
 - Python, R, SQL, Julia, MATLAB, Java, C, C++
- **Libraries:**
 - PyTorch, Keras, NumPy, Pandas, Scikit-Learn

LANGUAGES

- **Turkish:** Native
- **Japanese:** Advanced (JLPT N1)
- **French:** Intermediate
- **Spanish:** Elementary