

# Sevda ÖĞÜT

[Google Scholar](#) | [Linkedin](#) | [GitHub](#)

Phone : +41 76 269 64 18 | E-mail : [sevda.ogut@epfl.ch](mailto:sevda.ogut@epfl.ch)  
Address : Rue du Valentin 27, 1004 Lausanne, Switzerland

## EDUCATION

---

### EPFL

*Doctor of Philosophy in Computer Science*

Supervised by: Prof. Pascal Frossard and Dr. Dorina Thanou

Tentative Thesis Title: Self-Supervised Graph Representation Learning for Digital Pathology

Sep 2022 - Present

*Lausanne, Switzerland*

### Bilkent University

*Bachelor of Science in Electrical and Electronics Engineering*

Ranked 12<sup>th</sup> among 130 students in 2018 cohort

Sep 2018 - Jun 2022

*Ankara, Turkey*

CGPA : 3.91/4.00

## PUBLICATIONS

---

### SIGCOMM 2023

ACM

- J. Wang, S. Ögüt, H. Al Hassanieh, and B. Krishnaswamy, 'Towards Practical and Scalable Molecular Networks', in Proceedings of the ACM SIGCOMM 2023 Conference, 2023, pp. 62–76.

### TMLR 2023

OpenReview

- S. Elahi, B. Atalar, S. Ögüt, and C. Tekin, 'Contextual Combinatorial Multi-output GP Bandits with Group Constraints', Transactions on Machine Learning Research, 2023.

### UYMS 2021

IEEE Explore

- M. Sever and S. Ögüt, 'A Performance Study Depending on Execution Times of Various Frameworks in Machine Learning Inference', in 2021 15th Turkish National Software Engineering Symposium (UYMS), 2021, pp. 1–5.

## EXPERIENCE

---

### PhD Candidate

Sep 2023 - Present

*EPFL*

- Working on self-supervised graph representation learning for digital pathology in the Signal Processing Laboratory 4 ([LTS4](#)) with Prof. Pascal Frossard and Dr. Dorina Thanou

### Fellowship Student

Sep 2022 - Feb 2023

*EPFL*

- Worked on a project about multi-transmitter molecular communication systems in the Laboratory of Sensing and Networking Systems ([SENS](#)) with Assoc. Prof. Haitham Al Hassanieh

### Undergraduate Researcher

Dec 2020 - Jun 2022

*Bilkent University*

- Worked on multi-armed bandits, especially in contextual, combinatorial and volatile settings, Gaussian processes, thresholding and applications of these to content caching and federated learning in the Cognitive Systems, Bandits, and Optimization Research Group ([CYBORG](#)) with Assoc. Prof. Cem Tekin

## Summer Intern

Aug 2021 - Sep 2021

*ASELSAN A.Ş.*

- Implemented a performance study depending on execution times of various frameworks such as ONNX Runtime and TensorRT in machine learning inference

## Summer Intern

Aug 2020 - Sep 2020

*HAVELSAN A.Ş.*

- Implemented a project on computer vision using photographs taken with a camera and learning the camera matrix and the distortion coefficients by processing them with Python's OpenCV library

## SELECTED PROJECTS

---

### Decoding Brain States with fMRI Based MVPA Approach

Nov 2022 - Dec 2022

- Applied multi-voxel pattern analysis on functional magnetic resonance imaging data to predict the active regions in the brain when subjects undergo various emotions due to the changes in a video game with researchers in the Medical Image Processing Lab in the University of Geneva

### Landing a Fixed-Wing UAV using Reinforcement Learning

Sep 2021 - Jun 2022

- Compared the performances of algorithms including PPO, NAF and DDPG in fixed-wing UAV attitude control using Python, GymFC and Gazebo under the guidance of Titra Teknoloji A.Ş. as the senior capstone project

### Keepy Uppy Game with BASYS 3

Sep 2019 - Jan 2020

- Designed an FPGA-based game that uses BASYS 3 to bounce balls with a platform while counting the hits using VHDL

## COMPUTER SKILLS

---

**Languages & Software :** Python, MATLAB, VHDL, Assembly, L<sup>A</sup>T<sub>E</sub>X, SQL

**Tools :** Spyder IDE, Jupyter IDE, PyCharm, XILINX Vivado Design Suite, LTSpice, MCU 8051 IDE, TeXworks, SQLiteStudio, Visual Studio, Overleaf, Git, PyTorch

**Operating Systems :** Windows, Linux, macOS

## LANGUAGES

---

**Turkish :** Native speaker

**English :** Fluent, scored 113/120 in TOEFL iBT

Oct 2021

**French :** Intermediate, scored 76/100 in DELF B2 Exam

Feb 2022

## ADDITIONAL ACTIVITIES

---

**2023 - Present :** President of the Student Association EPFL PhDs of IC ([EPIC](#))

**2014 - 2018 :** Former member of the Model United Nations Student Club in İhsan Doğramacı Foundation Bilkent High School. Attended 9 MUN conferences both local and abroad, 2 of them being in Romania and Germany

**2012 - 2014 :** Played alto-saxophone for school band in İhsan Doğramacı Foundation Bilkent First and Middle School

**2005 - Present :** Playing the piano for 18 years. Finished 5 grades of ABRSM piano exams and attended the [Pera Piano Festival](#) in İstanbul