



## Gonca Yilmaz

Computer Science Student (M. Sc.)

### Contact

- 📍 Zürich, Switzerland
- 🌐 [goncayilmaz.github.io](https://github.com/goncayilmaz)
- ✉ [goncayilmaz2@outlook.com](mailto:goncayilmaz2@outlook.com)
- in [linkedin.com/goncayilmaz](https://www.linkedin.com/company/goncayilmaz)
- 🔗 [github.com/goncayilmaz](https://github.com/goncayilmaz)

### Soft Skills

- ▶ Adaptability
- ▶ Time Management
- ▶ Proactivity
- ▶ Strong collaboration and communication skills
- ▶ Document writing

### Technical Skills

- ▶ C++, Java, JavaScript, Python
- ▶ PyTorch, PySpark, OpenCV and data visualization libraries
- ▶ Deep Learning libraries like JAX, Tensorflow, Keras
- ▶ Data Structures and Algorithms
- ▶ Agile Methodologies
- ▶ Mixed Reality, Unity (with HoloLens)
- ▶ Computer Vision concepts
- ▶ Transformers, Large Language Models

## Objective

Looking for a PhD position in the Computer Vision field. My experience in research and programming, in addition to my effective working skills and my commitment to learning, ensures that I will make a positive contribution.

## Education

### Computer Science (M.Sc.)

University of Zurich (UZH)

Major: Artificial Intelligence, Minor: Data Science. *Student Activities:* Events and IT Committee Member at ETH Entrepreneur Club. We organized Launch AI+X Summit (now called Launch Startup) in collaboration with ETH AI Center.

09/2021 - 09/2024

### Computer Science (M.Sc.) - Special Student

ETH Zurich

Registered as special student and completed 49 ECTS of courses.

09/2021 - 09/2024

### Computer Science (B.Sc.)

Bilkent University

*Comprehensive Scholarship Student.* Graduated with Honors.

08/2017 - 06/2021

### Computer Engineering (B.Sc.) - Erasmus+

TU Dortmund

Dortmund, Germany

03/2020 - 08/2020

## Work Experience

### Incoming Software Engineer, Machine Learning

Google

Zürich, Switzerland

Will start working at Google Search Quality to develop machine learning models for search ranking based on a language query.

09/2024 - Present

### Applied Scientist Intern

Amazon

Berlin, Germany

Worked with Amazon Fulfillment Technologies & Robotics team on developing novel computer vision solutions for warehouse automation.

05/2024 - 09/2024

### 3 x Software Engineer Intern

Google

Zürich, Switzerland

- *Google Search Quality (Summer 2023):* using Large Language Models to improve Google Search ranking quality, the model will be deployed to search to serve billions of customers
- *Google Commerce Search Quality (Summer 2022):* building tools for offline model analysis and computing further metrics to evaluate ranking models
- *Fitbit Mobile Device Infrastructure (Summer 2021):* building a file storage microservice, to enable researchers to reach the raw data logs that are uploaded from Fitbit devices, while conducting an experiment

2021 - 2023

- ▶ Natural Language Processing
- ▶ Deep Learning

## Languages

Turkish	Native
English	C1
German	B2
French	A1

## Interests

- ▶ Piano
- ▶ Yoga
- ▶ Paragliding
- ▶ Cooking
- ▶ Travelling

## Projects

- ▶ **GymFeat:** Fitness app, which gives real-time feedback to the user's movements during a workout using pose estimation
- ▶ **Floor Plan Generation from 3D Furniture:** HoloLens app for interior design, uses object tracking
- ▶ **Unsupervised Domain Adaptation for Road Damage Detection:** addresses the domain gap between different road damage datasets exploring unsupervised domain adaptation methods
- ▶ **DANCER for Multi-Source Document Summarization:** Adapting a single-source document summarization LLM for multi-source document summarization task
- ▶ **Word Sense Disambiguation for Racial Bias Analysis:** analyzes New York Times corpora for the presence of racial bias using Word Sense Disambiguation model (transformers)

### Software Development Engineer Intern

07/2020 - 10/2020

Amazon  
Berlin, Germany

Worked with the Amazon Music Machine Learning team, analyzing features of the recommendation systems in detail

### Part-Time Software Developer

02/2020 - 08/2020

AlgoritiX, Prof. Dr. Yavuz Oruç  
Remote

CodeAPeel, programmed with Java, aims to house Intel, Sparc, and MIPS ISAs. I programmed the compiler so it could accept some instructions.

## Teaching Experience

### Graduate Teaching Assistant

09/2022 - Present

ETH Zürich  
Zürich, Switzerland

- Environmental Systems Data Science (Fall 2023) by Prof. Dr. Loic Pellisier
- Data Structures and Algorithms (Spring 2023) by Prof. Manuela Fischer and Prof. Felix Friedrich Wicker
- Environmental Systems Data Science (Fall 2022) by Prof. Dr. Loic Pellisier

### Graduate Tutor

10/2021 - 01/2022

University of Zurich  
Zürich, Switzerland

Foundations of Computing 2 (Fall 2021) taught by Prof. Dan Olteanu

### Undergraduate Teaching Assistant

09/2019 - 01/2020

Bilkent University  
Ankara, Turkey

Calculus 1 (Fall 2019) by Aydan Pamir  
Introduction to Programming in Java (Spring 2019) by Aynur Dayanik

## Publications

- "Weighted Maximum Likelihood for Controller Tuning", **Gonca Yilmaz\***, Angel Romero\*, Shreedhar Govil\*, Yunlong Song, Davide Scaramuzza, *ICRA 2023*
- "MOVSeg: Open Vocabulary Segmentation from Multi-Modal Inputs", **Gonca Yilmaz**, Songyou Peng, Hermann Blum, *MMFM Workshop, ICCV 2023*
- "OpenDAS: Domain Adaptation for Open-Vocabulary Segmentation", **Gonca Yilmaz**, Songyou Peng, Francis Engelmann, Marc Pollefeys, Hermann Blum, *MMFM Workshop, CVPR 2024*