

Ahmet Canberk Baykal

AI RESEARCHER · ISTANBUL, TURKEY

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Education

Koç University

MASTER OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

Istanbul, TR

Sep 2020 - June 2022

- **CGPA:** 4.00 / 4.00
- **Research Areas:** Machine Learning, Computer Vision, Natural Language Processing
- **Relevant Coursework:** Deep Learning, Computer Vision with Deep Learning, Natural Language Processing, Deep Unsupervised Learning, Advances in Deep Learning

Bilkent University

BACHELOR OF SCIENCE IN ELECTRICAL AND ELECTRONICS ENGINEERING

Ankara, TR

Sep 2016 - June 2020

- **CGPA:** 3.70 / 4.00
- **Relevant Coursework:** Introduction to Machine Learning, Artificial Intelligence, Neural Networks

Research & Work Experience

KUIS AI Center

GRADUATE AI RESEARCHER, CO-ADVISED BY PROF. DENİZ YÜRET & PROF. AYKUT ERDEM

Istanbul, TR

Sep. 2020 –

- Work at the intersection of Computer Vision and Natural Language Processing.
- Conduct research specifically on language guided image generation and manipulation.
- Implement neural networks in Python using PyTorch and Julia using Knet.

ASELSAN

SUMMER INTERN

Ankara, TR

July 2019 - Aug. 2019

- Study and implement VHDL design and verification techniques and apply these on small-scaled projects.

INFINIA Mühendislik

SUMMER INTERN

Ankara, TR

June 2018 - Aug. 2018

- Work on Raspberry Pi 3 Model B+ on a local web server that controls LEDs on a Model Automation System.
- Implement a simple interface to control LEDs using ESP8266 Wi-Fi module.

Projects

Image Captioning

- A deep learning model that takes images as input and outputs captions for that image, using Convolutional Neural Networks and LSTM.

Word++

- An AI program that finds alternate clues for NY Times crossword puzzle answers.

Re-Contact

- An android application that allows its users to add each other and exchange contact information via Near-Field Communication (NFC) technology.

Music Genre Predictor

- A machine-learning project that uses features from a song to predict its genre using Artificial and Convolutional Neural Networks.

Skills

Programming Languages

Python, Java, Julia, C++, VHDL

Frameworks

PyTorch, Keras, Knet (Julia)

Developer Tools

Git, PyCharm, Spyder, Jupyter, IntelliJ, MATLAB

Languages

Turkish (C2), English (TOEFL iBT: 110, C2), German (A2), Spanish (A1)

Honors & Awards

- 2020 **AI Fellowship, KUIS AI Center**
- 2020 **TÜBİTAK National M.Sc. Scholarship Program**
- 2019 **2nd place in IEEEExtreme Turkey Camp Contest**
- 2019 **19th place in Turkish Programming Contest (regional elimination round of ICPC)**
- 2019 **ALES (Selection Exam for Academic Personnel and Graduate Studies), Score: 96, Rank: 230 out of 122.927**
- 2016 **Ranked 38th in the Nationwide University Entrance Exam LYS and 51st in YGS among 2 million students in Turkey**
- 2016 **Scholarship of the Turkish Prime Ministry**

Teaching Experience

Koç University

Istanbul, TR

TEACHING ASSISTANT

Sep. 2020 –

- COMP106 - Discrete Mathematics for Computer Science and Engineering (Fall 2020, Fall 2021)
- COMP547 - Deep Unsupervised Learning (Spring 2021)
- Python Crash Course & Generative Adversarial Networks at KUIS AI Center Summer Camp

Extracurricular Activity

Bilkent Cycling Society

Ankara, TR

GENERAL SECRETARY

2018-2019

Bilkent IEEE Student Branch

Ankara, TR

ACTIVE MEMBER

2017