



Emre Can Açıkgöz

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Education

Koç University

Istanbul, Turkey

M.Sc. IN COMPUTER SCIENCE, KUIS-AI FELLOW

2022 - Present

- Advisor: Prof. Deniz Yuret
- Co-Advisor: Assoc. Prof. Aykut Erdem
- Area: Deep Learning, Natural Language Processing, Computer Vision, Multi-Modal Learning, Computational Linguistics

Koç University

Istanbul, Turkey

B.Sc. IN ELECTRICAL AND ELECTRONICS ENGINEERING

2017 - 2022

- Research Advisor: Prof. Deniz Yuret
- Artificial Intelligence Track & Digital Signal Processing Track
- GPA: 3.40/4.00
- Related Classes: Linear System Theory, Natural Language Processing, Deep Learning with Computer Vision, Random Process, Deep Unsupervised Learning, Detection and Estimation Theory

Kadıköy Anatolian High School

Istanbul, Turkey

SCIENCE

2012 - 2017

- Score: 5/5

Research Experience

KUIS-AI, Koç University

Istanbul, Turkey

RESEARCHER

July 2022 - Present

- Currently working on pre-training new Turkish state-of-the-art LLMs.
- Currently working on benchmarking Vision-Language Model capabilities.
- Attended 2022 (MRL): Multilingual Clause-level Morphology for each task: Inflection, Reinflection, Analysis. (Will be Published soon)

KUIS-AI, Koç University

Istanbul, Turkey

UNDERGRADUATE RESEARCHER

November 2021 - June 2022

- Created the new version of Turkish morphology dataset, TrMor2022. (Will be Published soon)
- Implemented a supervised state-of-the-art Turkish Morphological Analyzer which is built on a Transformers-based architecture. (Will be Published soon)
- Worked on unsupervised Morphological Analyses search. Specifically, applied some probing tests with GPT like: polarity and segmentation. (Will be Published soon)

Work Experience

Shallow AI

Palo Alto, California

DEEP LEARNING ENGINEER

April 2022 - Present

- Currently, working on Question Answering and Summarization models.

Shallow AI

Palo Alto, California

RESEARCH INTERN

April 2021 - April 2022

- Worked on efficient backbone mechanisms to reduce memory size of Neural Networks without effecting their accuracy, which can be deployed on embedded devices.
- Implemented an efficient mobile person detection algorithm and an efficient text recognition model.

Pavotek

Istanbul, Turkey

EMBEDDED DEVICES AND POWER SYSTEMS ENGINEERING INTERN

June 2020 - September 2020

- Designed a new Washing-Machine BLDC Motor Control scheme for a specific furniture with the driver circuit.
- Designed an efficient ELS Control Diagram for DC Motors which is used in paper machines.

Honors & Awards

1st Shared Task on Multilingual Clause-Level Morphology (MRL2022) winner in each task: Inflection, Reinflection, Analysis. (EMNLP, 2022)

KUIS-AI Fellowship for MSc. (2022)

Best Snr. Design Project Finalist (2022)

5 x Vehbi Koç Academic Honor Award (2017-2022)

Talks & Events

KUIS-AI Open House Event

KUIS-AI, Koç University

POSTER SESSION

May 13, 2022

- We presented our unsupervised morphological research results in the KUIS-AI Open House Event that covers VAE, Transformers, VQ-VAE based approaches.

KUIS-AI Media Team: Deep Unsupervised Learning

KUIS-AI, Koç University

PODCAST

April 18, 2022

- I gave a 30-minute talk about Deep Unsupervised Learning and the class.

Teaching Experience

Comp547: Deep Unsupervised Learning

Koç University, Istanbul

TUTOR

February 2022 - Present

- I was a teaching assistant of the graduate course COMP547: Deep Unsupervised Learning given by Aykut Erdem, in Spring'22.

Skills

Programming: Pytorch, Python, Julia, C, C++, MATLAB

Electronics and Hardware: DSP, Simulink, SPICE, Microcontrollers and Sensors, VHDL

Others: Git, AWS, Slurm, Latex, BASH/Linux

Club Activities & Volunteer Work

Koç Rams

Istanbul, Turkey

RUNNING-BACK(RB), FULL-BACK(FB)

2017-2020

- 1 x National League Champion
- 1 x University League Champion
- 1 x Istanbul Tournament Champion

Volunteer, Vice President

Istanbul, Turkey

KAL VOLUNTEERS CLUB

2013 - 2016

- With a group of volunteering peers, we raised funds and arranged events for children with disabilities.