

Emre Can Acikgoz

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Education

Koç UniversityIstanbul, Turkey

M.Sc. IN COMPUTER SCIENCE, KUIS AI FELLOW

2022 - Present

- Advisor: Prof. Deniz Yuret
- · Co-Advisor: Assoc. Prof. Aykut Erdem
- Research: Deep Learning, Natural Language Processing, 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 Tracks
- 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

• Score: 5/5

2012 - 2017

Publications

[1] E. Acikgoz, T. Chubakov, M. Kural, G. Şahin, and D. Yuret, Exploring the State-of-the-Art Language Modeling Methods and Data Augmentation Techniques for Multilingual Clause-Level Morphology, MRL22 ST Winner

Research Experience _____

KUIS-AI, Koç University

Istanbul, Turkey

RESEARCHER

July 2022 - Present

- Currently working on training new Turkish state-of-the-art LLMs.
- Currently working on benchmarking Vision-Language Model capabilities.
- · Attended MRL2022: Multilingual Clause-level Morphology for each task: Inflection, Reinflection, Analysis.

KUIS-AI, Koç University

Istanbul, Turkey

Undergraduate Researcher

November 2021 - June 2022

- Worked on creating the new version of Turkish morphology dataset, TrMor.
- Implemented a supervised state-of-the-art Turkish Morphological Analyzer which is built on a seq2seq Transformers-based architecture.
- · Worked on unsupervised Morphological Analyses search. Specifically, applied some probing tests with GPT like: polarity and segmentation.

Work Experience _____

Shallow AI Palo Alto, California

RESEARCH SCIENTIST

April 2022 - Present

• Currently, working on Automatic Speech Recognition (ASR), Question Answering (Q/A) and Summarization systems.

Shallow AI RESEARCH INTERN

Palo Alto, California

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.

NOVEMBER 3, 2022

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)

Teaching Experience

Comp541: Deep Learning

Koç University, Istanbul

TUTOR

October 2022 - Present

I am one of the teaching assistant of graduate course COMP541: Deep Learning given by Aykut Erdem, in Fall'22.

Comp547: Deep Unsupervised Learning

Koç University, Istanbul

TUTOR

February 2022 - June 2022

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

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

Podcas

April 18, 2022

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

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)

0017000

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

Volunteer, Vice President

KAL VOLUNTEERS CLUB

2013 - 2016

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

Emre Can Acikgoz · Curriculum Vitae