

Ege Ersü

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Education

The University of Edinburgh Master of Science in Informatics (Cognitive Science)	67.7	2020- September 2021	Edinburgh, UK
Koç University Bachelor of Science in Computer Engineering	3.42	2016-2020	Istanbul, Turkey
University of Sussex Erasmus+ Exchange (Informatics)	4.00	Spring 2020	Brighton, UK
Rice University Global Exchange (Computer Science)		Fall 2018	Houston, TX
American Robert College of Istanbul Science and Math, High School		2011-2016	Istanbul, Turkey

Skills

Experienced with	Python, PyTorch, Julia, JavaScript
Worked with	React, SQL, TensorFlow, Java, LISP, C, C++, AWS, GCP, Spark, Hadoop
Natural Languages	English, Turkish
Graduate Coursework	Machine Learning & Pattern Recognition, Machine Learning Practical, Deep Learning Natural Language Processing 1 & 2, Reinforcement Learning, Algorithmic Game Theory

Work

Koç University Artificial Intelligence Laboratory

Istanbul, Turkey

RESEARCH ASSISTANT | 📄 CODE | 📄 PAPER

June 2019 - Aug. 2019

- Developed an open-source package that transfers pre-trained deep learning models from PyTorch & TensorFlow to Julia. The software reconstructs each individual layer and connects them as a computational graph which can be modified, re-trained or used for inference.
- The package is mostly used by Julia developers to import popular models for fine-tuning, without having to implement models from scratch. After the release I have mentored two other research assistants to maintain the project.
- The project was supervised by **Prof. Deniz Yuret**, the founding director of the laboratory.

Miletos Co.

Istanbul, Turkey

MACHINE LEARNING INTERN

June. 2018 - Jul. 2018

- Worked with the R&D team to solve the OCR task of converting images of receipts into text. Experimented with various CNN architectures using PyTorch and reported performance metrics. Also helped the team with data labelling.

Research

Studying Compositional Generalization in Virtual Environments

The University of Edinburgh

MSC DISSERTATION | 📄 CODE

June 2021 - In Progress

- Currently developing an interactive browser game that will be used as a virtual environment for Cognitive Science and Reinforcement Learning experiments. The environment is built as a web application using React, allowing researchers to design & launch experiments without having to touch the source code. The project will end with a data analysis phase, using the collected behavioral data to test a cognitive hypothesis.
- The dissertation is supervised by **Dr. Christopher G. Lucas**.

Position-Aware Neural Attentive Graph Networks for Multi-hop Question

The University of Edinburgh

Answering

NLP RESEARCH | 📄 CODE | 📄 PAPER

January 2021- May 2021

- We open-sourced the first community version of Entity-RGCN in PyTorch (De Cao et al., 2019) and used it to solve the document-level question answering dataset WikiHop. We have also reduced the entity-graph storage requirement from 1TB to 23GB, enabling the model to run on smaller devices without sacrificing accuracy.
- The research project was supervised by **Dr. Hakan Bilen**.