Ege Ersü

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Education

The University of Edinburgh	67.7%	2020- October 2021	*Edinburgh, UK*
Master of Science in Informatics (Cognitive Science)			
Koç University	3.42/4	2016-2020	*Istanbul, Turkey*
Bachelor of Science in Computer Engineering			
University of Sussex	4.00/4	Spring 2020	*Brighton, UK*
Erasmus+ Exchange (Informatics)			
Rice University		Fall 2018	*Houston, TX*
Global Exchange (Computer Science)			
American Robert College of Istanbul		2011-2016	*Istanbul, Turkey*
Science and Math, High School			

Skills

Experienced with	Python, JavaScript, PyTorch, Julia
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
	Natural Language Processing 1 & 2, Reinforcement Learning, Algorithmic Game Theory

Research

Building a Virtual Environment for Studying Human Compositional Generalization *The University of Edinburgh*

MSc Project | Code *June 2021 - September 2021*

- Developed a web application to be used as a customizable virtual environment in Cognitive Science and Reinforcement Learning experiments. Researchers can design and launch experiments without having to touch the source code. Uses React & Airtable. The project will end with a data analysis phase, using collected behavioral data to test a cognitive hypothesis.
- The project is supervised by **Dr. Christopher G. Lucas.**

Position-Aware Neural Attentive Graph Networks for Multi-hop Question Answering *The University of Edinburgh*

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 further released improved versions of the model with *positional injection* and *query attention*. Our paper also includes ablation studies and specific case studies from the dataset.
- The research project was supervised by **Dr. Hakan Bilen.**

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 the models from scratch. After the release I have mentored two other research assistants to maintain the project. The project was directly 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.