

Ege Ersu

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Education

The University of Edinburgh Master of Science in Informatics	Award: Distinction	2020 - 2021	Edinburgh, UK
Koç University Bachelor of Science in Computer Engineering		2016-2020	Istanbul, Turkey
University of Sussex Erasmus+ Exchange (Informatics)		2020	Brighton, UK
Rice University Global Exchange (Computer Science)		2018	Houston, USA

Skills

Languages	Python, SQL, JavaScript, Julia
Packages	PyTorch, TensorFlow, scikit-learn, Pandas
Other Tools	React.js, Streamlit, AWS, GCP
Graduate Coursework	Machine Learning & Pattern Recognition, Reinforcement Learning, Deep Learning Natural Language Understanding, Generation & Machine Translation Tools & Models for Data Science, Algorithmic Game Theory

Research

Studying Human Compositional Generalization in Virtual Environments *The University of Edinburgh*
📄 [CLICK HERE](#) | MSC DISSERTATION | SUPERVISED BY **DR. CHRISTOPHER G. LUCAS** 2021

- Developed a web application for launching customizable game-based experiments and collecting behavioral data. Used it to collect more than 2000 gameplay decisions from over 200 participants. Performed EDA on the collected behavioral dataset and tested a cognitive hypothesis on human rule learning and generalization. We are currently turning the dissertation into a conference paper for CogSci 2022.

Position-Aware Neural Attentive Graph Networks for Question Answering *The University of Edinburgh*
📄 [CLICK HERE](#) | NLP RESEARCH | SUPERVISED BY **DR. HAKAN BILEN** 2021

- Our research group 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 by incorporating *positional injection* and *query attention*. Our paper also includes ablation studies and specific case studies from the dataset.

Work

KUIS Artificial Intelligence Center *June 2019 - Dec. 2019*
📄 [CLICK HERE](#) | RESEARCH ASSISTANT | SUPERVISED BY **PROF. DENIZ YURET**

- Developed an open-source package that transfers pre-trained 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 them from scratch. I also mentored two research assistants who joined the project as developers.

Miletos Co. *June. 2018 - Aug. 2018*
MACHINE LEARNING INTERN

- 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 cleaning and labeling.