

Duygu Sezen Islakoglu

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EDUCATION

- **Utrecht University, Faculty of Science, Utrecht, Netherlands** 2021 – Present
Second-year PhD Student in Data Intensive Systems Group, **Data Science & AI Division**
Research interest: **Knowledge graph completion with pre-trained language models**
Advisors: Asst. Prof. Mel Chekol and Prof. Yannis Velegrakis
Oxford Machine Learning Summer School (2022)
- **KU Leuven, Faculty of Engineering Science, Leuven, Belgium** 2020 – 2021
Master of Science in **Artificial Intelligence**
Thesis: **Understanding Events in Continuous-time Dynamic Graphs**
Advisors: Asst. Prof. Sebastijan Dumančić and Prof. Hendrik Blockeel
- **Koc University, College of Engineering, Istanbul, Turkey** 2015 – 2020
Bachelor of Science in **Computer Engineering**
Data Analytics Track
- **Koc University, College of Science, Istanbul, Turkey** 2017 – 2020
Bachelor of Science in **Mathematics**

SKILLS & LANGUAGES

Skills: Python, PyTorch, TensorFlow, pandas, numpy, scikit-learn

Experience with: C/C++, Java, R, MATLAB, Julia, LISP, SPARQL, SQL, Prolog

Languages: Turkish (Native), English (Advanced), Dutch (Beginner)

WORK EXPERIENCE

- **Co-founder, epoka, Istanbul** 2020 – 2022
- Founded a startup that provides a B2B service that can virtually and realistically swap furniture in images with new ones using state-of-the-art deep learning methods
- **Machine Learning Engineer, parkpilot, Istanbul** 2020 – 3 months
- Used YOLO and SORT algorithms to count the number of vehicles in a particular parking area for a real-time application
- **Machine Learning Engineer, Migraine AI, Palo Alto** 2019 – 5 months
- The main purpose for this Silicon Valley based startup was to predict migraine attacks and the triggers based on self-reports of the patients
- Performed clustering, worked on time series and missing data
- Worked on REST API's and tools for passive monitoring
- **Undergrad Researcher, Koc University AI Lab, Istanbul** 2017 – 2019
- Contributed to the Turkish Morphology Project by data preprocessing and worked on NLTK with ambiguous words 8 months
- **Long Term Intern, FalconAI (now a YC company senpai.gg), Istanbul** 2019 – 4 months
- Developed object detection projects with TensorFlow Object Detection API for personalized fashion application FashionI
- Fine-tuned models for 20 classes with DeepFashion dataset
- **Summer Intern, Miletos Research and Development, Istanbul** 2018 – 2 months
- Trained an image classifier for documents in PyTorch
- **Summer Researcher, Koc University IUI Lab, Istanbul** 2017 – 2 months
- Contributed to the IMOTION Project which develops and evaluates innovative multi-modal user interfaces

PUBLICATIONS

- D. S. Islakoglu***, I. Saccardi*, A. Neerincx, F. L. Vinella, 2022
Symbiotic Child Emotional Support with Social Robots and Temporal Knowledge Graphs,
Workshop on Human-centered Design of Symbiotic Hybrid Intelligence,
Hybrid Human-Artificial Intelligence Conference, 2022

TEACHING

Assistantship

Data Wrangling (MSc), Knowledge and Data Engineering (MSc), Databases

2022 – 2023

Knowledge and Data Engineering (MSc) (**Received a teaching award**), Databases, Game Design

2021 – 2022

Supervised Master Theses

Knowledge Graph Expansion Using Question Answerin by Leveraging Pre-Trained Language Models, Hagen Fock

2022

Knowledge Graph Expansion Using Cloze Statements by Leveraging Language Models, Ignasi Oliveres

2022

LEADERSHIP EXPERIENCE

- **Founder, Open Office Hours, Turkey** 2021 – Present
- Created a platform where almost 1700 undergraduate and high school students can easily reach out academicians and ask their questions
- **Co-founder, Audio Book Project, Koc University** 2016 – Present
- Built an online library which includes educational materials for individuals with visual disabilities
- **Academic Coordinator, Koc University ACM Student Chapter** 2019 – 2020
- **Head Mentor, Koc University Office of Dean of Students, Istanbul** 2017 – 2020
- Mentored +200 mentors and 25 newcomer students

HONORS & SCHOLARSHIPS

Çiçek Sepeti Success Scholarship (2020), So Chic Success Scholarship (2011-2020), Koc University Vehbi Koc Honor Scholar (2016)