

## DUYGU SEZEN ISLAKOGLU

Utrecht, Netherlands

[duyguislakoglu@gmail.com](mailto:duyguislakoglu@gmail.com) - [linkedin.com/in/duygu-sezen-islakoglu](https://www.linkedin.com/in/duygu-sezen-islakoglu) - [duyguislakoglu.github.io](https://github.com/duyguislakoglu)

### EDUCATION

<b>Doctor of Philosophy, Computer Science</b> , Utrecht University, Netherlands	Oct 2021 - Sep 2026
<ul style="list-style-type: none"><li>- Research interests: Knowledge representation learning, large language models</li><li>- <i>Oxford Machine Learning Summer School, ACM Summer School on Data Science</i></li></ul>	
<b>Master of Science, Artificial Intelligence</b> , KU Leuven, Belgium	Sept 2020 - June 2021
<b>Bachelor of Science, Computer Engineering</b> , Koc University, Turkey	Sept 2015 - June 2020
<ul style="list-style-type: none"><li>- Data Analytics Track</li></ul>	
<b>Bachelor of Science, Mathematics</b> , Koc University, Turkey	Feb 2017 - June 2020

### SKILLS

<b>Technical Skills</b>	Python, PyTorch, TensorFlow, pandas, numpy, scikit-learn
<b>Experience with</b>	C/C++, SQL, SPARQL, Java, R, MATLAB, Julia, LISP, Prolog
<b>Languages</b>	Turkish (Native), English (Advanced), Dutch (Beginner)

### EXPERIENCE

<b>Co-founder</b> , epoka, Istanbul	June 2020 - Aug 2022
<ul style="list-style-type: none"><li>- Founded a startup, epoka, specializing in B2B services and led a team in developing state-of-the-art deep learning methods to virtually and realistically replace furniture</li></ul>	
<b>Machine Learning Engineer</b> , parkpilot, Istanbul	July 2020 - Sept 2020
<ul style="list-style-type: none"><li>- Developed a real-time computer vision application that counts the vehicles in the videos</li></ul>	
<b>Machine Learning Engineer</b> , Migraine AI, Silicon Valley Palo Alto, CA	Apr 2019 - Sept 2019
<ul style="list-style-type: none"><li>- Predicted migraine attacks and the triggers based on self-reports of the patients</li><li>- Performed clustering, worked on time series and missing data</li></ul>	
<b>Undergrad Researcher</b> , Koc University AI Lab, Istanbul	Feb 2017 - Aug 2019
<ul style="list-style-type: none"><li>- Contributed to the Turkish Morphology Project by data preprocessing and worked on NLTK with ambiguous words (8 months in total)</li></ul>	
<b>Long Term Intern</b> , FalconAI (now a Y Combinator company senpai.gg), Istanbul	Feb 2019 - June 2019
<ul style="list-style-type: none"><li>- Developed TensorFlow object detection projects for a fashion application FashionI</li></ul>	
<b>Summer Intern</b> , Miletos Research and Development, Istanbul	July 2018 - Aug 2018
<ul style="list-style-type: none"><li>- Trained an image classifier for documents in PyTorch</li></ul>	
<b>Summer Researcher</b> , Koc University IUI Lab, Istanbul	July 2017 - Aug 2017
<ul style="list-style-type: none"><li>- Worked on IMOTION Project which develops and evaluates multi-modal UIs</li></ul>	

### PUBLICATIONS

- [1] D. S. Islakoglu\*, M. Chekol, Y. Velegrakis, *Leveraging Pre-trained Language Models for Time Interval Prediction in Text-Enhanced Temporal Knowledge Graphs*, Extended Semantic Web Conference (ESWC) 2024, **Best Research Paper Award** ([Paper](#))
- [2] D. S. Islakoglu\*, Jan-Christoph Kalo\*, *ChronoSense: Exploring Temporal Understanding in Large Language Models with Time Intervals of Events*, Under review
- [3] D. S. Islakoglu\*, I. Saccardi\*, A. Neerincx, F. L. Vinella, *Symbiotic Child Emotional Support with Social Robots and Temporal Knowledge Graphs*, Workshop on Human-centered Design of Symbiotic Hybrid Intelligence, Hybrid Human Artificial Intelligence (HHAI) 2022 ([Paper](#))

### TEACHING

Co-instructor: Knowledge and Data Engineering (MSc) x 2  
Assistantship: Data Wrangling (MSc) x 3, Databases x 3, Game Design  
Supervision: 9 Master Theses (Applied Data Science Program) and 1 Bachelor Thesis (AI Program)

### HONORS & SCHOLARSHIPS

**Utrecht University Teaching Award 2021**, Koc University Vehbi Koc Honor Scholar 2016,  
Çiçek Sepeti Success Scholarship 2020, So Chic Success Scholarship 2011-2020

### LEADERSHIP/VOLUNTEERING EXPERIENCE

<b>Conference Volunteer</b> , IEEE International Data Engineering (ICDE) 2024	May 2024
<b>Founder</b> , Open Office Hours (a meeting platform for 1500+ students and academics)	Feb 2021 - June 2023
<b>Co-founder</b> , Audio Book Project (an online library for individuals with visual disabilities)	Sept 2016 - June 2020
<b>Academic Coordinator &amp; Board Member</b> , Koc University ACM Student Chapter	Sept 2019 - June 2020
<b>Head Mentor</b> (for 200+ mentors and 25 newcomer students), Koc University	Sept 2017 - June 2020