

DUYGU SEZEN ISLAKOGLU

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EDUCATION

Doctor of Philosophy, Computer Science , Utrecht University, Netherlands	Oct 2021 - Sep 2026
- Research interests: Large language models and knowledge bases	
- <i>Oxford Machine Learning Summer School, ACM Summer School on Data Science</i>	
Master of Science, Artificial Intelligence , KU Leuven, Belgium	Sept 2020 - June 2021
Bachelor of Science, Computer Engineering , Koc University, Turkey	Sept 2015 - June 2020
- Data Analytics Track	
Bachelor of Science, Mathematics, Double Major , Koc University, Turkey	Feb 2017 - June 2020

SKILLS

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

EXPERIENCE

Co-founder , epoka, Istanbul	June 2020 - Aug 2022
- 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	
Machine Learning Engineer , parkpilot, Istanbul	July 2020 - Sept 2020
- Developed a real-time computer vision application that counts the vehicles in the videos	
Machine Learning Engineer , Migraine AI, Silicon Valley Palo Alto, CA	Apr 2019 - Sept 2019
- Predicted migraine attack/triggers, worked on clustering, time series and missing data	
Undergrad Researcher , Koc University AI Lab, Istanbul	Feb 2017 - Aug 2019
- Contributed to the Turkish Morphology Project by data preprocessing	
Long Term Intern , FalconAI (now a Y Combinator company senpai.gg), Istanbul	Feb 2019 - June 2019
- Developed TensorFlow object detection projects for a fashion application FashionI	
Summer Intern , Miletos Research and Development, Istanbul	July 2018 - Aug 2018
- Trained an image classifier for documents in PyTorch	
Summer Researcher , Koc University IUI Lab, Istanbul	July 2017 - Aug 2017
- Worked on IMOTION Project which develops and evaluates multi-modal UIs	

HONORS & SCHOLARSHIPS

Ranked 1st among over 1 million participants in the national exam, Utrecht University Teaching Award 2021, Koc University Vehbi Koc Honor Scholar 2016, Çiçek Sepeti Success Scholarship 2020, So Chic Scholarship 2011-2020

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 ([Paper](#))
- [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 4, Game Technology x 2, Certificate: Start to Teach
Supervision: 11 Master Theses (Applied Data Science Program) and 1 Bachelor Thesis (AI Program)

LEADERSHIP/VOLUNTEERING/SERVICE

Workshop Chair , International Semantic Web Conference (ISWC) 2025	Mar 2025
Reviewer , International Conference on Computational Linguistics (COLING) 2025	Oct 2024
Conference Volunteer , IEEE International Data Engineering (ICDE) 2024	May 2024
Founder , Open Office Hours – a meeting platform for 1500+ students and academics	Feb 2021 - June 2023
Co-founder , Audio Book Project – an online library for individuals with visual disabilities	Sept 2016 - June 2020
Academic Coordinator & Board Member , Koc University ACM Student Chapter	Sept 2019 - June 2020
Head Mentor (for 200+ mentors and 25 newcomer students), Koc University	Sept 2017 - June 2020
Head of IT , European Young Parliament National Selection tConference in Turkey	April 2014