DUYGU SEZEN ISLAKOGLU

Utrecht, Netherlands

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EDUCATION

Doctor of Philosophy, Computer Science, Utrecht University, Netherlands	Oct 2021 – Sep 2026

    - Research interests: Knowledge representation learning, large language models

    - *Oxford Machine Learning Summer School, ACM Summer School on Data Science*

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, Koc University, Turkey	Feb 2017 - June 2020

SKILLS

Technical Skills	Python, PyTorch, TensorFlow, 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 attacks and the triggers based on self-reports of the patients

    - Performed clustering, worked on 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 and worked
on NLTK with ambiguous words (8 months in total)

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

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

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