

## Duygu Sezen Islakoğlu

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### PROFILE

Highly motivated PhD student. Fascinated by the intersection of computer science and mathematics. Well-experienced in both deep learning research and industry. Involved heavily in leadership.

### SKILLS

Python, C/C++, PyTorch, TensorFlow, SPARQL, Java, Julia, MATLAB, LISP, R (Intermediate), SQL (Intermediate), Prolog (Intermediate)

### EDUCATION

- **Utrecht University, Faculty of Science, Utrecht, Netherlands** 2021 – Present  
First-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
- **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**

### 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

### TEACHING

#### Assistantship

Knowledge and Data Engineering (MSc), Databases, Game Design 2021 – 2022

#### Master students

- "Knowledge Graph Expansion Using Question Answering by Leveraging Pre-Trained Language Models", Hagen Fock 2022
- "Knowledge Graph Expansion Using Cloze Statements by Leveraging Language Models", Ignasi Oliveres 2022

### 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*
  - Created *REST API*'s and tools for passive monitoring
- **Undergrad Researcher, Koc University AI Lab, Istanbul** 2017 – 2019 8 months
  - Contributed to the Turkish Morphology Project by data preprocessing and worked on NLTK with ambiguous words
- **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
  - Created a document image classifier 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

## 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
  - Prepared study materials for Machine Learning Study Group, organized faculty meetings
- **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)

## LANGUAGES & INTERESTS

**Languages:** Turkish (Native), English (Fluent)

**Interests:** Adobe Photoshop, Adobe Illustrator, Volleyball, Drawing, Photography