

**CONTACT
INFORMATION**

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EDUCATION**Technical University of Munich (TUM)****Munich, Germany***M.Sc., Computer Science*

2019-2023

Master's Thesis – *Compositional Zero-shot Point Cloud Classification with Vision-Language Model Embeddings* at TUM CAMP supervised by PD Dr. Federico Tombari.

Middle East Technical University (METU)**Ankara, Turkey***B.Sc., Computer Engineering*

2014-2019

Studied one year at the English Language Preparatory School of METU.

PUBLICATIONS

- [1] **İdil Sulo**, Evin Pinar Ornek, Nassir Navab, and Federico Tombari, OpenPart: Compositional Open Vocabulary Point Cloud Understanding, *Under review*, 2023.
- [2] Qadeer Khan, **İdil Sulo**, Melis Ocal, and Daniel Cremers, Learning Vision Based Autonomous Lateral Vehicle Control Without Supervision, *Applied Intelligence, Springer*, 2023. [Paper].
- [3] Fatih Can Kurnaz, Burak Hocaoglu, Mert Kaan Yilmaz, **İdil Sulo**, and Sinan Kalkan, ALET (Automated Labeling of Equipment and Tools): A Dataset for Tool Detection and Human Worker Safety Detection”, *European Conference on Computer Vision (ECCV) Workshops*, 2020. [Paper].
- [4] **İdil Sulo**, Seref Recep Keskin, Gulustan Dogan, and Theodore Brown, Energy Efficient Smart Buildings: LSTM Neural Networks for Time Series Prediction, in *The International Conference on Deep Learning and Machine Learning in Emerging Applications (DEEP-ML)*, 2019. [Paper].

**RESEARCH
EXPERIENCE****Computer Vision Group, Technical University of Munich****Munich, Germany***Student Researcher*

Apr 1, 2021 - Feb 28, 2023

- Worked on self-supervised imitation learning for vehicle control based on pose estimation (SLAM), view synthesis and Model Predictive Control supervised by Prof. Daniel Cremers.
- Extended the framework to multiple sensor modalities to study robustness to sensor failures.
- Published at Applied Intelligence journal.

KOVAN Robotics Research Lab, METU**Ankara, Turkey***Undergraduate Student Researcher*

Feb 1, 2019 - Jun 30, 2019

- Worked on an intelligent robot platform that functions as an apprentice to human workers working in factory assembly lines co-supervised by Prof. Sinan Kalkan and Prof. Erol Sahin.
- Developed a module to predict the pose of human workers in real-time from Kinect data.
- Supported creation of a tool detection dataset and worked on a neural network model to demonstrate a possible use-case of the dataset for safety purposes.
- Published at ECCV 2020 Workshops.

City University of New York**New York, NY, United States***Undergraduate Student Researcher (Remote)*

Oct 1, 2018 - Jun 30, 2019

- Developed an LSTM to help forming of smart buildings by predicting their energy consumption.
- Published at DEEP-ML.

ImageLab, Middle East Technical University**Ankara, Turkey***Computer Vision Research Intern*

Jun 25, 2018 - Sep 21, 2018

- Worked on reducing the computational cost of GANs (e.g. WGAN) with Depthwise Separable Convolution layers of MobileNet architecture under the supervision of Prof. Gokberk Cinbis.

INDUSTRY EXPERIENCE	Christie's <i>Data Science Intern (Remote)</i>	London, United Kingdom May 3, 2022 - Sep 30, 2022
	<ul style="list-style-type: none"> – Worked on ablation studies on cross-modal tasks such as image captioning, visual question answering and visual grounding for visual arts. – Performed fine-tuning of vision-language models (e.g. BLIP and OFA-Sys). 	
	Amazon Web Services (AWS) <i>Software Development Engineer Intern, AWS AI - DevOps</i>	Berlin, Germany Aug 15, 2021 - Jan 14, 2022
	<ul style="list-style-type: none"> – Worked on a knowledge base system to manage, sort and categorize a growing amount of entities and their relationships to present in a centralized way. – Collaborated with research scientist to deploy NLP models. 	
	Unetiq <i>Data Scientist (Part-Time)</i>	Munich, Germany Nov 11, 2019 - Jul 1, 2020
	<ul style="list-style-type: none"> – Ground Control Project - Developed neural network models based on sensor readings to determine rail track quality. – Linde Project - Analyzed the costs based on key quantities. – Corona-AI Project - Worked on prediction of the mortality status of patients based on the first 24 hours of ICU stay, in collaboration with University Hospital Regensburg, Germany. 	
	Darkblue Telecommunication Systems <i>Software Developer</i>	Ankara, Turkey Jun 11, 2019 - Aug 1, 2019
	<ul style="list-style-type: none"> – Worked on a research and development of a real-time system using Support Vector Machines to classify face images of the people using C++ and Dlib. 	
AWARDS & SERVICES	CVPR – Reviewer CVPR 2023, NeurIPS 2020, ICML 2020, ISMIR 2020 – Conference Grant Scientific and Technological Research Council of Turkey (TÜBİTAK) – 2209/A University Students Research Project Grant, 2019 Middle East Technical University – Honor Roll (Spring 2015, Fall 2017, Spring 2018), High Honor Roll (Spring 2017, Fall 2018) Grace Hopper Celebration 2022 (vGHC'22) – IFF Gender & Diversity Grants, Technical University of Munich HackZurich 2021 – Winner of IBM & the Literoom Workshop, “Digitally Enabling the Artist” Guinness World Record – Participant of the “Largest Code Debugging / Bug Fixing Competition”	
SKILLS	Programming Languages – Python, C/C++ Libraries, Frameworks and Tools – Python Data Science/Deep Learning Stack (PyTorch, NumPy, SciPy, scikit-learn, Matplotlib, Pandas, Jupyter); 2D/3D Computer Vision (OpenCV, CARLA, Open3D, PyTorch3D); Cloud Technologies (AWS, Google Cloud, Azure); Web Technologies (HTML, CSS, Jekyll); CUDA, L ^A T _E X, Git Operating Systems – Unix/Linux, Windows Languages – Turkish (Native), English (Advanced), German (Intermediate)	
EXTRA- CURRICULAR ACTIVITIES	Women in CS @ TUM (Informatik-Forum Frauen, IFF) <i>Events Team Lead</i>	Munich, Germany Apr 2022 - Present
	Django Girls <i>Organizer & Mentor</i>	Ankara, Turkey 2018
	Coding Woman <i>Blogger</i>	Jan 2018 - Present