

**CONTACT
INFORMATION**

Email idilsulo@gmail.com
 Web idilsulo.github.io

[Google Scholar](#)

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

Graduation Project – A platform to make neural networks available as an online service.

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”, *ECCV-W*, 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 *DEEP-ML*, 2019. [Paper].

**RESEARCH
EXPERIENCE**

Massachusetts Institute of Technology

Cambridge, MA, United States

MIT Summer Geometry Initiative (SGI) Fellow

Jul 8, 2024 - Aug 16, 2024

Computer Vision Group, Technical University of Munich

Munich, Germany

Student Researcher

Apr 1, 2021 - Feb 28, 2023

- Performed self-supervised imitation learning for vehicle control based on pose estimation (SLAM), view synthesis and Model Predictive Control under the supervision of 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 trained a neural network model to demonstrate a possible use-case of the dataset for safety purposes, and published at ECCV Workshops.

City University of New York

New York, NY, United States (Remote)

Undergraduate Student Researcher

Oct 1, 2018 - Jun 30, 2019

- Enabled forming of smart buildings by predicting their energy consumption using LSTM.

ImageLab, Middle East Technical University

Ankara, Turkey

Computer Vision Research Intern

Jun 25, 2018 - Sep 21, 2018

- Helped 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	Deltia <i>Computer Vision Engineer Intern</i>	Berlin, Germany (Remote) Feb 1, 2024 - Present
	<ul style="list-style-type: none"> – Working on an ergonomics project based on 3D human pose estimation and SMPL to form 3D digital humans for anonymization of workers and to ensure health and safety in the long term. 	
	Christie's <i>Data Science Intern</i>	London, United Kingdom (Remote) May 3, 2022 - Sep 30, 2022
	<ul style="list-style-type: none"> – Performed ablation studies on cross-modal tasks such as image captioning, visual question answering and visual grounding for visual arts. – Fine-tuned 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"> – Established 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"> – Supported customers with project-based AI solutions by developing neural networks for quality estimation and health status prediction. – Analyzed customer data to provide project cost estimation. 	
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 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