

**CONTACT  
INFORMATION**

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[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

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 (Remote)**

*Undergraduate Student Researcher*

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

**Deltia** **Berlin, Germany (Remote)**  
*Computer Vision Engineer Intern* Feb 1, 2024 - Present

- Working on a smart ergonomics project based on human pose estimation.

**Christie's** **London, United Kingdom (Remote)**  
*Data Science Intern* May 3, 2022 - Sep 30, 2022

- 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)** **Berlin, Germany**  
*Software Development Engineer Intern, AWS AI - DevOps* Aug 15, 2021 - Jan 14, 2022

- 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** **Munich, Germany**  
*Data Scientist (Part-time)* Nov 11, 2019 - Jul 1, 2020

- Supported customers with project-based AI solutions by developing neural networks for quality estimation and health status prediction.
- Performed data analysis based on customer needs.

**Darkblue Telecommunication Systems** **Ankara, Turkey**  
*Software Developer* Jun 11, 2019 - Aug 1, 2019

- Worked on a real-time system based on SVMs to classify face images 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  
**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<sup>A</sup>T<sub>E</sub>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)** **Munich, Germany**  
*Events Team Lead* Apr 2022 - Present

**Django Girls** **Ankara, Turkey**  
*Organizer & Mentor* 2018

**Coding Woman**  
*Blogger* Jan 2018 - Present