

Evin Pınar Örnek

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EDUCATION

Technical University of Munich
Ph.D. Candidate in Computer Science
Funded by Google Unrestricted Gift

Munich, Germany
since 2020
Fall 2021

Technical University of Munich
M.Sc. Computer Science

Munich, Germany
2017-2020

KU Leuven
M.Sc. Computer Science Erasmus Exchange

Leuven, Belgium
Fall 2018

Bogazici University
B.Sc. Computer Engineering

Istanbul, Turkey
2013-2017

UCLA
Academic Intensive English & Culture Program

Los Angeles, California
Summer 2013

SELECTED PUBLICATIONS

1. **Evin Pınar Örnek**, Yann Labbé, Bugra Tekin, Lingni Ma, Cem Keskin, Christian Forster, Tomáš Hodaň. FoundPose: Unseen Object Pose Estimation with Foundation Features. *arXiv:2311.18809*, 2023.
2. Guangyao Zhai*, **Evin Pınar Örnek***, Shun-cheng Wu, Yan Di, Federico Tombari, Nassir Navab, Benjamin Busam. CommonScenes: Generating Commonsense 3D Indoor Scenes with Scene Graphs. *NeurIPS*, 2023.
3. **Evin Pınar Örnek**, Aravindh K Krishnan, Shreekanth Gayaka, Cheng-Hao Kuo, Arnie Sen, Nassir Navab, Federico Tombari. SuperRGB-D: Zero-shot Instance Segmentation in Cluttered Indoor Environments. *IEEE RAL*, 2023.
4. Ferjad Naeem*, **Evin Pınar Örnek***, Yongqin Xian, Luc Van Gool, Federico Tombari. 3D Compositional Zero-shot Learning with DeCompositional Consensus. *ECCV*, 2022.
5. Ege Ozsoy*, **Evin Pınar Örnek***, Ulrich Eck, Tobias Czempel, Federico Tombari, Nassir Navab. 4D-OR: Semantic Scene Graphs for OR Domain Modeling. *MICCAI Orals*, 2022.
6. Enis Simsar*, **Evin Pınar Örnek***, Fabian Manhardt, Helisa Dharmo, Federico Tombari. Object-Aware Monocular Depth Prediction with Instance Convolutions. *IEEE RAL*, 2022.

* Co-first authorship.

OTHER PUBLICATIONS

1. Enis Simsar, Alessio Tonioni, **Evin Pınar Örnek**, Federico Tombari. LatentSwap 3D: Semantic Edits on 3D Image GANs. *ICCVW*, 2023.
2. Ege Ozsoy, Tobias Czempel, **Evin Pınar Örnek**, Ulrich Eck, Federico Tombari, Nassir Navab. Holistic OR Domain Modeling: A Semantic Scene Graph Approach. *IJCARS*, 2023.
3. **Evin Pınar Örnek**, Shristi Mudgal, Johanna Wald, Yida Wang, Nassir Navab, Federico Tombari. From 2D to 3D: Re-thinking Benchmarking of Monocular Depth Prediction. *arXiv:2203.08122*, 2022.
4. Ege Ozsoy*, **Evin Pınar Örnek***, Ulrich Eck, Federico Tombari, Nassir Navab. Multimodal Semantic Scene Graphs for Holistic Modeling of Surgical Procedures. *arXiv:2106.15309*, 2021.
5. Xin Li, Yanyan Li, **Evin Pınar Örnek**, Jinlong Lin, Federico Tombari. Co-Planar Parametrization for Stereo-SLAM and Visual-Inertial Odometry. *IEEE RAL*, 2020.

6. **Evin Pınar Örnek**, Marie Francine Moens. Zero-shot Activity Recognition From Videos. *CVPR Learning with Limited Labels Workshop, Virtual*, 2020.
7. Mehmet Turan, **Evin Pınar Örnek**, Nail Ibrahimli, Can Giracoglu, Yasin Almalioglu, Mehmet Fatih Yanik, Metin Sitti. Unsupervised Odometry and Depth Learning for Endoscopic Capsule Robots. *IROS*, 2018.
8. Mehmet Turan, Yasin Almalioglu, **Evin Pınar Örnek**, Helder Araujo, Mehmet Fatih Yanik, Metin Sitti. Magnetic-Visual Sensor Fusion-based Dense 3D Reconstruction and Localization for Endoscopic Capsule Robots, *IROS*, 2018.

INDUSTRIAL EXPERIENCE

Meta Reality Labs **Zurich, Switzerland**
AI Research Scientist Internship Summer 2023

Worked on XR-Tech Input team for object recognition and tracking.
 Developed a method for pose estimation of unseen objects to become state-of-the-art.

Amazon Lab126 **Sunnyvale, California**
Applied Scientist Internship Summer 2022

Worked within the household robot Astro mobility and obstacle detection team.
 Proposed a research task tightly coupled with the existing practical issues.
 Developed a novel method and a dataset, presented in the computer vision org.

Google **Zurich, Switzerland**
Site Reliability Engineering Internship Summer 2016

Worked on a distributed database server for a configuration management system.
 Deployed the server with Go. Designed and developed an automation client tool.
 Presented the projects to to all SREs of Zurich office, resulting a noticable attention.

Algosis **Istanbul, Turkey**
Software Engineering Internship Summer 2015

Administered the system, Redis database, python multithreading experiments.
 Estimated financial statistical algorithms visualizations through IPython, SciPy.
 Experienced the start-up environment as a first-hand employer.

ACADEMIC EXPERIENCE

Technical University of Munich **Munich, Germany**
Research Assistant since 2020

Working at the Chair of Computer Aided Medical Procedures & Augmented Reality.
 Teaching assistant to courses related to 3D computer vision and deep learning.
 Mentored over 30 students for master's and bachelor's thesis, and other projects.

Max Planck Institute **Stuttgart, Germany**
Research Internship Summer 2017

Involved in a group which develops endoscopic robot capsules for intestinal screening.
 Worked on multi-sensor calibration and fusion methods, and odometry and depth estimation.
 Published two papers from this research to the IEEE/RSJ IROS Conference.

Stanford University collaboration with Bogazici **Istanbul, Turkey**
Teaching Assistant to "Introduction to CS" June 2015

Stanford Prof. Nick McKeown organised a summer course based on CS106 Java.
 Worked as an assistant, taught for a group of students, and helped in assignments.

Bogazici University **Istanbul, Turkey**
Teaching Assistant 2013-2017

Gave problem solving sessions for introduction to programming in C & Java.

AWARDS & SERVICES

- Google Unrestricted Gift for funding doctoral studies, 2021
- Reviewer at CVPR, NeurIPS, 3DV, IROS, ICRA, IEEE RAL, IEEE VR
- Financial support for NeurIPS New Orleans 2023
- Volunteer mentor at MIT Summer Geometry Initiative 2022
- Volunteer at EMNLP Brussels 2018, ICLR Virtual 2020, NeurIPS Virtual 2020
- German Government Scholarship 2018-2019
- TU Munich International Student Scholarship 2018
- Travel Grant for ACM SIGGRAPH 2018 in Vancouver
- Travel Grant and Fellow at Google Student Retreat in London 2018
- ACM ICPC Southeastern Europe Regionals Honorable Mention 2014 & 2016
- Travel Grant Grace Hopper Women in Computing Celebration Houston 2015
- ACM and IEEE Student Member

SKILLS

Coding

C++, Python, Java

Machine & deep learning (Pytorch, Matlab)

Web programming (HTML/CSS, Javascript, PHP, Django Rest Framework)

Unix environment, system administration, Perl and CGI programming

Organisational

ACM Algorithm Camp Bogazici University Winter 2015, 2017 (Organizer)

EXIT'15 University Technology Days (Organizer, awarded 1000\$ by IBM)

Boun ACM Student Chapter (Founder)

Junge Munchner Symphoniker, Istanbul Da Camara Orchestra (Cellist)

Languages

Turkish (Native), English (Fluent, Toefl:112), German (B1), Spanish (B1)