Evin Pınar Örnek

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EDUCATION

Technical University of Munich — **Munich, Germany**
Ph.D. Candidate in Computer Science — since 2020
Funded by Google Unrestricted Gift — Fall 2021

Technical University of Munich — **Munich, Germany**
M.Sc. Computer Science — 2017-2020

KU Leuven — **Leuven, Belgium**
M.Sc. Computer Science Erasmus Exchange — Fall 2018

Bogazici University — **Istanbul, Turkey**
B.Sc. Computer Engineering — 2013-2017

UCLA — **Los Angeles, California**
Academic Intensive English & Culture Program — 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**, Aravindhan K Krishnan, Shreekant Gayaka, Cheng-Hao Kuo, Arnie Sen, Nassir Navab, Federico Tombari. SupeRGB-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 Czempiel, 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 Dhamo, 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 Czempiel, **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)