Evin Pınar Örnek

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EDUCATION

Technical University of Munich — **Munich, Germany**
Ph.D. Candidate in Computer Science — since 2020
(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

CONFERENCE PUBLICATIONS

1. Ferjad Naeem*, **Evin Pınar Örnek***, Yongqin Xian, Luc Van Gool, Federico Tombari. 3D Compositional Zero-shot Learning with DeCompositional Consensus. In *European Conference on Computer Vision.* (2022).
2. Ege Ozsoy*, **Evin Pınar Örnek***, Ulrich Eck, Tobias Czempiel, Federico Tombari, Nassir Navab. 4D-OR: Semantic Scene Graphs for OR Domain Modeling. In *Medical Image Computing and Computer Assisted Intervention* Orals. (2022).
3. Enis Simsar*, **Evin Pınar Örnek***, Fabian Manhardt, Helisa Dhamo, Federico Tombari. Object-Aware Monocular Depth Prediction with Instance Convolutions. In *IEEE Robotics and Automation Letters.* (2022).
4. Xin Li, Yanyan Li, **Evin Pınar Örnek**, Jinlong Lin, Federico Tombari. Co-Planar Parametrization for Stereo-SLAM and Visual-Inertial Odometry. In *IEEE Robotics and Automation Letters.* (2020).
5. **Evin Pınar Örnek**, Marie Francine Moens. Zero-shot Activity Recognition From Videos. In *CVPR Learning with Limited Labels Workshop, Virtual.* (2020).
6. 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. In *IROS, Madrid, Spain.* (2018).
7. 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, Madrid, Spain.* (2018).

* Co-first authorship.

PROFESSIONAL EXPERIENCE

Amazon Lab126 — **Sunnyvale, California**
Applied Scientist Intern — Summer 2022

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

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.
Mentoring master's students for research 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 by deep learning.
Published two papers from this research to the IEEE/RSJ IROS Conference.

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

Worked on a distributed database server for a configuration management system.
Implemented the server with Go, tested and deployed. Designed and developed an automation client tool.
Re-designed a version management tool on top of the database server.
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, used Redis database, tested the application.
Designed python multiprocessing and multithreading experiments and evaluated.
Estimated financial statistical algorithms and visualised the plots via IPython, SciPy.
Experienced the start-up environment as a first-hand employer.

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
- 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)
Experienced in 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)