Gizem Esra Unlu

Resume / Google Scholar / GitHub / LinkedIn / Email

Hi! I am Gizem Unlu, a final year PhD student at University College London (UCL) in the Computer Science Department. I am supervised by Prof. Gabriel Brostow.

I am excited about data-driven and interactive research for creating deep-learning based tools for humans. My focus is on 3D reconstruction and modeling and generative models; I am currently working on 3D diffusion for scene reconstruction.

Publications

Rapid Sketch-Based 3D City Modeling
Gizem Esra Unlu, Yulia Gryaditskaya, and Gabriel Brostow
Work in Progress (will be submitted in Jan 24.)

Interactive Sketching of Mannequin Poses
Gizem Esra Unlu, Mohamed Sayed, Gabriel Brostow
International Conference on 3D Vision (3DV) 2022
Project Page, Paper, Video, Bibtex

Education

February 2020 - continuing
PhD Student in Computer Vision (University College London)
Supervised by Prof. Gabriel Brostow and Dr. Iasonas Kokkinos.

September 2017 - January 2020
MSc Computer Engineering (Bogazici University)
Thesis: "Image Deblurring from Sign Language Videos" Supervised by Prof. Lale Akarun.

September 2012 - June 2017
Bachelor of Computer Engineering (Istanbul Technical University) (Double Major)
Thesis: 3D Facial Reconstruction from RGB Images. Supervised by Prof. Hazim Ekenel.

September 2012 - June 2017
Bachelor of Mathematics Engineering (Istanbul Technical University)
Thesis: Filtering Techniques in Speckle Noise Reduction. Supervised by Dr. Burcu Tunga.

Work Experience

2014-2016, Istanbul
Mercedes-Benz Turkey, IT Intern
Worked for IT SAP&Rollout Services

Awards

October 2023 - June 2024
PhD Enrichment Scheme Placement award
The Alan Turing Institute

ECCV 2018 Looking at People Satellite Workshop Challenge
Image Completion Competition 1st place
Publication: Person Inpainting with Generative Adversarial Networks

Teaching

University College London Machine Vision TA - 2020, 2021, 2022, 2023

Bogazici University Computer Vision TA - 2019

Skills

Languages Python, C++, MATLAB, Java/Javascript

Deep Learning Libraries Pytorch(primary), Tensorflow

Useful Tools Blender, Adobe Illustrator, Adobe After Effects