

ÒSCAR LORENTE COROMINAS

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EDUCATION

M.Sc. in Computer Vision

Oct 2020 - Sept 2021

Universitat Autònoma de Barcelona - [Computer Vision Center](#), Barcelona, Spain

9.47/10 - TOP 1 STUDENT AWARD

B.Sc. in Telecommunications Technologies and Services Engineering

Sept 2016 - July 2020

ETSETB - Universitat Politècnica de Catalunya (UPC), Barcelona, Spain

9.10/10 in the Audiovisual Systems major

WORK EXPERIENCE

Research Intern at IRI, CSIC - UPC, Barcelona, Spain

May 2021 - Present

Exploring the contribution of parametric models and attention mechanisms in Implicit Differentiable Renderer (IDR) for multi-view 3D human reconstruction.

Research Intern at CD6 - UPC, Barcelona, Spain

Oct 2020 - Apr 2021

Implemented a pipeline to semi-automatically annotate pedestrians in 3D point clouds by exploiting registered and synchronized RGB images and LIDAR point clouds.

Computer Vision Engineer at Beamagine S.L., Barcelona, Spain

Feb 2020 - July 2020

Adapted and trained a deep learning model to classify pedestrians in LIDAR point clouds using 3D clusters obtained by projecting 2D labels.

SQL Developer at Accenture, Barcelona, Spain

July 2018 - Nov 2018

Analyzed and solved problems related to SQL database management.

PROJECTS

Multi-view 3D People Reconstruction (2021)

[dissertation](#)

Combined parametric models with implicit neural representations and differentiable rendering to obtain watertight 3D reconstructions of human bodies using weak 2D supervision.

Video Surveillance for Road Traffic Monitoring (2021)

[arXiv](#) / [code](#)

Solution to the third track of the [NVIDIA AI-City Challenge](#): designed a system using siamese networks and metric learning to perform multi-target multi-camera tracking.

Image Classification with Classic and Deep Learning Techniques (2020)

[arXiv](#) / [code](#)

For the image classification task: compared classic computer vision techniques (e.g. bag of visual words with SVM) with deep learning models, including our own architecture.

Ultrasound-Machine Simulator, [Fetal Medicine Barcelona](#) (2019)

Built an ultrasound-machine simulator for medical personnel training purposes using a smart-phone to emulate the ultrasound probe and a computer for visualization.

SKILLS

Languages: Python, C++, Matlab, C, Java, SQL

Frameworks and Tools: PyTorch, ROS, Git, Blender, \LaTeX , Anaconda, Tensorflow

Libraries: OpenCV, Numpy, Scikit-learn, Trimesh, Open3D, PCL, Detectron2, Pandas