Clara Fernández-Labrador

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Education

Universidad de Zaragoza, Spain / **Université de Bourgogne Franche-Comté**, France Oct 2017 - Now
Ph.D. in Computer Vision
Advised by Dr. José J. Guerrero Campo and Dr. Cédric Demonceaux
- Summer School on Computer Vision - ICVSS 2018 (34%)
- Visit research at CVL in ETH Zürich

Politecnico di Torino, Italy Sep 2016 - Mar 2017
Visit during Master of Industrial Engineering
Funded by EU Erasmus Program

Università degli studi di Trieste, Italy Sep 2014 - Jun 2015
Visit during Bachelor of Industrial Engineering
Funded by EU Erasmus Program

Universidad de Zaragoza, Spain
Master of Industrial Engineering Sep 2015 - Oct 2017
Thesis title: "3D Room Layout Estimation from a Single 360° Panorama"
Advised by Dr. José J. Guerrero Campo and Dr. Alejandro Pérez Yus

Bachelor of Industrial Engineering Sep 2011 - Sep 2015
Thesis title: "Design and Organization for the Machines Control in a Company"
Advised by Dr. Ángel Fernández Cuello and Dr. Nicolich Marino

Work Experience

ETH Zürich, Switzerland Aug 2019 - Mar 2020
Visit Researcher – PhD Candidate
Prof. Luc Van Gool
Computer Vision Laboratory (CVL)
Funded by CAI-Ibercaja Program and ETHZ scholarship

Universidad de Zaragoza, Spain / **Université de Bourgogne Franche-Comté**, France Oct 2017 - Now
Research Assistant – PhD Candidate
Robotics, Perception & Real Time Group.
Research in Computer Vision and Robotics: 3D scene analysis with non-conventional cameras for robotics and people assistance. Geometry and deep learning combination.

Universidad de Zaragoza, Spain Mar 2017 - Oct 2017
Research Assistant - Ms. Candidate
Robotics, Perception & Real Time Group.
Research Initiation Scholarship
Research in Computer Vision and Robotics: 3D layout recovery of indoor scenes from single panoramic images. Geometry and deep learning combination.

Colombin GM & Figlio Spa, Trieste, Italy   Mar 2015 - Jul 2015
Undergraduate Intern - Bs. Candidate
Project management. Bottlenecks and personal protective equipment (PPE) managing.

Tecnopackaging, Zaragoza, Spain   May 2014 - Aug 2014
Undergraduate Intern - Bs. Candidate
3D CAD design and injection simulations in prosthetics with biocompatible plastics.

Languages

English - First Certificate (B2) / (C1)
Italian - CILS Livello TRE (C1)
French - Lower Intermediate
Spanish - Mother tongue

Publications

[1] "What's in my Room? Object Recognition on Indoor Panoramic Images"
Julia Guerrero-Viu*, **Clara Fernández Labrador***, Cédric Demonceaux, José J. Guerrero.
ICRA, 2020. Paris, France.

[2] "Corners for Layout: End-to-End Layout Recovery from 360 Images"
Clara Fernández Labrador*, J. María Fácil*, Alejandro Pérez Yus, Cédric Demonceaux, Javier Civera, José J. Guerrero.
IEEE Robotics and Automation Letters.
ICRA, 2020. Paris, France.
WiCV with CVPR 2019. Long Beach, California.

[3] "PanoRoom: From the Sphere to the 3D Layout"
Clara Fernández Labrador, J. María Fácil, Alejandro Pérez Yus, Cédric Demonceaux, José J. Guerrero
3DRMS with ECCV 2018. Munich, Germany.

[4] "Layouts from Panoramic Images with Geometry and Deep Learning"
Clara Fernández Labrador, Alejandro Pérez Yus, Gonzalo López Nicolás, José J. Guerrero
IEEE Robotics and Automation Letters.
IROS, 2018. Madrid, Spain.

[5] "Full 3D Layout Reconstruction from One Single 360° Image"
Clara Fernández Labrador, Alejandro Pérez Yus, Gonzalo López Nicolás, José J. Guerrero
WiCV with ECCV 2018. Munich, Germany.
ICVSS 2018. Sicily Italy.

Supervised Bachelor/Master thesis projects

- "Layout reconstruction with single view" (9.7/10)
  Juan Carlos Medina. Co-supervised with Dr. José J. Guerrero Campo.
  Bs. Industrial Eng., University of Zaragoza. 2018

- "Object recognition in 360 images" (10/10)
  Julia Guerrero Campo. Co-supervised with Dr. José J. Guerrero Campo.
  Bs. Computer Science, University of Zaragoza. 2019