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Clara Fernández Labrador

Current position:
PhD Student at
University of Zaragoza and
University of Bourgogne

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C/ Juan Martín Sauras
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EDUCATION

PhD studies in Computer Vision — Oct 2017 - present
Computer Science and Systems Engineering Dept.,
University of Zaragoza – Spain / University of Bourgogne – France
Advisors: Dr. José J. Guerrero Campo and Dr. Cédric Demonceaux

Summer School on Computer Vision - ICVSS 2018 (34%) — Jul 2018
Sicily – Italy

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

Master of Industrial Engineering — Sep 2015 - Oct 2017
University of Zaragoza – Spain
Thesis title: "3D Room Layout Estimation from a Single 360º Panorama"
Advisors: Dr. José J. Guerrero Campo and PhD student Alejandro Pérez Yus

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

Bachelor of Industrial Engineering — Sep 2011 - Sep 2015
University of Zaragoza – Spain
Thesis title: "Design and Organization for the Machines Control in a Company"
Advisors: Dr. Ángel Fernández Cuello and Dr. Nicolich Marino

SCHOLARSHIPS

5th Women in Computer Vision Workshop at ECCV 2018 — Sep 2018
Travel grant

Erasmus Scholarship from the EU — Sep 2016 - Feb 2017
Funded by the European Union
To perform part of the Master studies abroad
At Politecnico di Torino, Italy

Erasmus Scholarship from the EU Sep 2014 - Feb 2015
Funded by the European Union
To perform part of the Bachelor studies abroad
At Università degli studi di Trieste, Italy

WORK EXPERIENCE

Research Assistant - Ms. Candidate – PhD Candidate Oct 2017 - present
Robotics, Perception & Real Time Group.
University of Zaragoza, Spain
Research Project: "DPI2015-65962-R: Egocentric Computer Vision for Environment Interaction of Visually Impaired People, EVEIVI"
Research in Computer Vision and Robotics: Complex scene analysis with non-conventional cameras for robotics and people assistance. Geometry and deep learning combination.

Research Assistant - Ms. Candidate Mar 2017 - Oct 2017
Robotics, Perception & Real Time Group.
University of Zaragoza, Spain
Research Initiation Scholarship
Research Project: "DPI2014-61792-EXP: Sistemas de visión no convencionales para percepción en prótesis de visión simulada"
Research in Computer Vision and Robotics: 3D layout recovery of indoor scenes from single 360 degrees panoramas. Geometry and deep learning combination.

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

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

LANGUAGES

English - First Certificate (B2). Currently preparing Cambridge Advanced (C1)
Italian - CILS Livello TRE (C1)
French - Lower Intermediate
Spanish - Mother tongue

PUBLICATIONS

Journals

[1] "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, 2018
With IROS 2018 Presentation

Poster Presentation

[1] "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.

Workshops

[1] "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.

SUPERVISED BACHELLOR/MASTER THESIS PROJECTS

- "Omnidirectional Vision for Scene Understanding".
Juan Carlos Medina. Co-supervised with Dr. José J. Guerrero Campo.
Bs. Industrial Eng. University of Zaragoza. 2018

PARTICIPATION IN RESEARCH PROJECTS

- Egocentric Computer Vision for Environment Interaction of Visually Impaired People (EVEIVI), DPI2015-65962-R. Financed by MINECO and UE/FEDER. P.I.(principal investigator): José J. Guerrero
- Sistemas de visión no convencionales para percepción en prótesis de visión simulada, DPI2014-61792-EXP. Financed by MINECO and UE/FEDER. P.I.(principal investigator): Gonzalo López Nicolás