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Clara Fernández Labrador

Current position:

PhD Student at
University of Zaragoza and
University of Bourgogne

Contact information:

cfernandez@unizar.es (work e-mail)
flabclara@gmail.com
(personal e-mail)
(+34) 606 23 74 35

Current Address:

C/ Juan Martín Sauras
nº14
50011 Zaragoza, Spain

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

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 360° 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

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

[1] “Layouts from Panoramic Images with Geometry and Deep Learning”

Clara Fernandez-Labrador, Alejandro Perez-Yus, Gonzalo Lopez-Nicolas and Jose J. Guerrero

Under review at RA-L and IROS 2018

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