

Last update : August 21, 2019

# Melani Sánchez García

## Contact information:

mesangar@unizar.es (work e-mail)

mesangar6@gmail.com

(personal e-mail)

(+34) 639 54 16 21

<https://mesangar.github.io/>

## Current Address:

C/ Crist de l'Empar 6

Gandia

46702 Valencia, Spain

## Current position:

PhD Student at

Universidad de Zaragoza

## EDUCATION

---

### PhD studies in Computer Vision

Oct 2017 - present

Computer Science and Systems Engineering Dept.,

Universidad de Zaragoza – Spain

Advisors: Dr. Jose Jesús Guerrero Campo and Dr. Rubén Martínez Cantín

Thesis title: “Egocentric computer vision for the interaction with the environment of people with visual disability”

### Teaching

Feb 2019 - April 2019

### Master of Engineering in Industrial Engineering

Subject of Representación gráfica del patrimonio

Universidad de Zaragoza – Spain

### Summer School on Computer Vision (BMVA 2018)

July 2018

Norwich - UK

### Subject of Vision and Robotics

Sep 2017 - Jan 2018

Master of Engineering in Industrial Engineering (GPA: 7.5/10)

Universidad de Zaragoza – Spain

Advisors: Dr. Jose Jesús Guerrero Campo and Dr. Gonzalo López Nicolás

### Master of Engineering (GPA: 7.75/10)

Sep 2015 - May 2017

Universitat de València – Spain

Master's degree final project title: “Elimination of a representative VOC by total oxidation using catalysts”

Advisor: Dr. Benjamín E. Solsona Espriu

### Bachelor of Engineering (GPA: 7.66/10)

Sep 2011 - May 2015

Universitat de València – Spain

Final degree project title: “Design of catalytic converters in exhaust pipes”

Advisor: Dr. Benjamín E. Solsona Espriu

## SCHOLARSHIPS

---

### FPI scholarship (PhD candidate)

Oct 2017

Research staff training program from the Ministry of Economy and Competitiveness for I+D+i

Universidad de Zaragoza – Spain

Research Project: “DPI2015-65962-R”

## WORK EXPERIENCE

---

### Visit Researcher - PhD Candidate

Sep 2019 - Dec 2019

Prof. Benoit Cottureau and Christophe Jouffrais  
IRIT and CerCo labs  
University of Toulouse

### Research Assistant - PhD Candidate

May 2017 - Oct 2017

Computer Science and Systems Engineering Department  
Universidad de Zaragoza – Spain  
Research Project: “DPI2015-65962-R”

*Research in Computer Vision and Robotics: Egocentric computer vision for the interaction with the environment of people with visual disability*

### Research Assistant

Sep 2016 - May 2017

Engineering Department  
Universitat de València – Spain

*Research in Carboquímica: Elimination of a representative VOC by total oxidation using catalysts*

## PUBLICATIONS

---

### INTERNATIONAL CONFERENCES AND WORKSHOPS

- [1] “Semantic and Structural Image Segmentation for Prosthetic Vision”  
**Melani Sánchez García**, Rubén Martínez Cantín and Jose J. Guerrero  
PLOS ONE  
Under Review 2019
- [2] “Indoor Scenes Understanding for Visual Prosthesis with Fully Convolutional Networks”  
**Melani Sánchez García**, Rubén Martínez Cantín and Jose J. Guerrero  
VISAPP 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications, 22, October 2018
- [3] “Structural and object detection for phosphene images”  
**Melani Sánchez García**, Rubén Martínez Cantín and Jose J. Guerrero  
Published in Arxiv, 25, September 2018
- [4] “Smart Representation of Indoor Scenes under Simulated Prosthetic Vision”  
**Melani Sánchez García**, Rubén Martínez Cantín and Jose J. Guerrero  
WiCV Women in Computer Vision Workshop, 9, September 2018

## SUPERVISED BACHELOR/MASTER PRACTICUM SUPERVISOR

---

- Pedro Luis Compais Serrano. Co-supervised with Jose Jesús Guerrero Campo. Bs. Industrial Eng. Universidad de Zaragoza. 2018-2019

## PARTICIPATION IN RESEARCH REVISIONS

---

### INTERNATIONAL CONFERENCES AND WORKSHOPS

- [1] External Reviewer in ACVR Sixth International Workshop on Assistive Computer Vision and Robotics, 9, September 2018

## 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): Jose J. Guerrero

## OTHER ACTIVITIES

---

- I participated in the initiative 'Una ingeniera en cada cole' (AMIT)
- "Semantic and Structural Image Segmentation for Prosthetic Vision"  
Presented at VIII Jornada de Jóvenes Investigadores del I3A, 2019