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Berta Bescós Torcal



Contact

Ave G. Gómez de Avellaneda 27 4°C Zaragoza, 50018 Spain

(+34) 664 339 068

bbescos@unizar.es

in linkedin.com/in/bbescos

github.com/bertabescos

bertabescos.github.io

Experience

2017-Now University of Zaragoza

PhD. Student in Computer Vision

I am currently PhD. Student in Computer Vision at the Computer Science Department at the University of Zaragoza advised by Dr. José Neira . My main research interests lie in the intersection between perception and learning for robotics. The world surrounding us is complex and ever changing, which makes robots struggle to have a good understanding of the scene. My PhD. topic involves dealing with dynamic objects in Simultaneous Localization and Mapping problems for a better scene understanding with both geometry and semantics.

Remarkable achievements:

- Research stay in Autonomous Systems Lab (ASL) in ETH Zürich, Switzerland for 5 months. My supervisors are César Cadena and Roland Siegwart
- · Attendance to RVSS in Kioloa, Australia.

2015 Fersa Bearings

Zaragoza, Spain

Zaragoza, Spain

Engineer Jr. in R&D department

I had a 6 months internship in Fersa's R&D department. The role I had to play in the company was the development of new aftermarket and T1 products.

2015 **SARGA**Basic Technician in Safety and Prevention of Labor Risks

I updated the self-protection and emergency plan of the public company SARGA.

2010-2017 Mis Clases Particulares

Zaragoza, Spain

Universidad de Zaragoza

Zaragoza, Spain

Private Teacher

I have been working as a private teacher of English, French and science subjects for students who aim to access university (e.g., Chemistry, Physics, Maths, Drawing).

Education

2016-2017	Master's Degree in Electronics and Automation I spent 6 months at INSA Lyon (Lyon, France) under the	INSA Lyon Erasmus exchange program.
2011-2015	Bachelor's Degree in Industrial Engineering	Universidad de Zaragoza
2014-2015	Master's Degree in Systems, Control and Mechatronics I spent 6 months at Chalmers University of Technology the Erasmus exchange program.	Chalmers University of Technology gy (Göteborg, Sweden) under

Publications

• Empty Cities: Image Inpainting for Dynamic-Objects-Invariant Spaces

2015–2017 Master's Degree in Industrial Engineering, Robotics and Automation

- B. Bescos, J. Neira, R. Siegwart, C. Cadena. Submitted to ICRA 2019
- Dynamic Objects Segmentation for Visual Localization in Urban Environments
 - G. Zhou, **B. Bescos**, M. Dymczyk, M. Pfeiffer, J. Neira, R. Siegwart. IEEE Workshop on From Freezing to Jostling Robots: Current Challenges and New Paradigms for Safe Robot Navigation in Dense Crowds, held with IROS 2018.
- · DynaSLAM: Tracking, Mapping and Inpainting in Dynamic Scenes
 - B. Bescos, JM. Fácil, J. Civera, J. Neira. Published at RA-L and IROS 2018.
- Detecting, Tracking and Eliminating Dynamic Objects in 3D Mapping using Deep Learning and Inpainting

- **B. Bescos**, JM. Fácil, J. Civera, J. Neira. IEEE Workshop on Representing a Complex World: Perception, Inference, and Learning for Joint Semantic, Geometric, and Physical Understanding, held with ICRA 2018.
- Removing Dynamic Objects from 3D Maps using Geometry and Learning
 - **B. Bescos**, JM. Fácil, J. Civera, J. Neira. IEEE Workshop on Learning for Localization and Mapping, held with IROS 2017.

Languages

Spanish: Native proficiency

English: Full professional proficiency – I got C1 Cambridge English certificate in 2016

French: Full professional proficiency – I got B2 EOI French certificate in 2017

Volunteering Experience

2016	$\label{eq:Reconstruction of a school in India} \begin{tabular}{l} FSL & India \\ I & worked for one month, together with an international team, in the reasonable of the control of the c$	
2015	Reconstruction of a mountain shelter Solidarités Jeunesses I helped carry out the reconstruction of a mountain shelter in the Roboting people with disabilities and young people at risk of social exceptions.	
2013	Reconstruction of a watermill in Estonia EstYES I worked together with international people on the reconstruction o Viljandi, Estonia, for the supply of the area with electrical energy.	Viljandi, Estonia f a watermill in