Berta Bescós Torcal



Contact

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Experience

2017-Now University of Zaragoza

Zaragoza, Spain

PhD. Student in Computer Vision

I am currently PhD. Student in Computer Vision and Robotics 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

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 e 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 Technolo the Erasmus exchange program.	Chalmers University of Technology ogy (Göteborg, Sweden) under

Publications

• Empty Cities: Image Inpainting for a Dynamic-Object-Invariant Space

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 E0I French certificate in 2017 **German:** Basic communication skills – I am currently learning german

Volunteering Experience

2016	Reconstruction of a school in India FSL India I worked for one month, together with an international team, in the rea school for Tibetan refugees in Dharamkot, Himachal Pradesh, India	
2015	Reconstruction of a mountain shelter Solidarités Jeunesses I helped carry out the reconstruction of a mountain shelter in the hosting people with disabilities and young people at risk of social ex	
2013	Reconstruction of a watermill in Estonia EstYES I worked together with international people on the reconstruction of Viljandi, Estonia, for the supply of the area with electrical energy.	Viljandi, Estonia of a watermill in