

PERSONAL INFORMATION



Joan-Cristian Padró Garcia

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Place of birth | Manresa, Barcelona, SPAIN (EU) **Passport** | 39376748-N

Sex Male | **Date of birth** 12/08/1980 | **Nationality** Spain

DRONE EXPERIENCE

January 2015 - July 2015

MS Final Project

"Analysis of images from unmanned aerial vehicles (UAV) focused on applications to obtain the monitoring of biodiversity".

- Use of DJI-Phantom 2 platform. Use of DJI FC-200 sensor (RGB). Use of AgiSoft photogrammetric software. Use of MiraMon, ENVI and ArcGis RS & GIS software.
- Mosaicking more than 100 images for each flight (4 flights). Elaboration of Digital Surface Models from the point-cloud generated in each flight. Comparative of DSM. Image classification to categories, discriminating land covers and vegetation types.
- Elaboration of a detailed protocol to get a useful product for monitoring the biodiversity, from a low cost sensor (RGB) and platform.

March 2016 -Actually

Doctoral Thesis

"Improvement of processing data acquired by Copernicus-GEOSS sensors (Sentinel-2, Sentinel-3 and Landsat-8) using sensors embedded in UAVs."

- Actually, use of radiometer OceanOptics USB2000+ for field measurements.

WORK EXPERIENCE

October 2015 - February 2016

Research technician

CREAF (Centre de Recerca Ecològica i Aplicacions Forestals – Center for Ecological Research and Forestry Applications). Edifici C, Autonomous University of Barcelona (UAB), Spain. www.creaf.es

- Supporting the construction of a map server to disseminate information generated under the project Dinacive (Climate and Land Use & Land Cover monitoring of Iberian Peninsula, mainly with LANDSAT and MODIS data). Using MiraMon, HTML, CSS and JavaScript. Using the geo-distributed ISO and Open Geospatial Consortium (OGC) standards.

Research Ecology, Remote Sensing, GIS, Geo-services.

July 2015 - October 2016

GIS technician

I3DAT Consulting. St. Fruitós de Bages, Barcelona, Spain. www.i3dat.com

- Road inventory of Girona area. Using ArcGis, Google maps and images provided by helicopter.
- Map generalization of IGN (Instituto Geográfico Nacional – National Geographic Institute) cartography from scale 1:100K to 1:200K. Provinces of Rioja, Salamanca, and Canary Islands.

Technician Remote Sensing, GIS, Geo-services.

June 2009 - June 2014

Dealer - Carrier

Althaia Xarxa Assistencial (Hospital of Manresa), Manresa, Barcelona, Spain. www.althaia.cat

Logistics Courier, transportation, medical equipment

October 2002 - May 2003

Kitchen porter

Marriot Hotel, Bristol, United Kingdom.

EDUCATION AND TRAINING

September 2014 – July 2015

MS in Remote Sensing and GIS

Average EQF= 8.8

Universitat Autònoma de Barcelona (Autonomous University of Barcelona)

- Remote Sensing, Advanced GIS analysis, Photogrammetry, Platforms and sensors, radiometric and geometric corrections, Digital Terrain Models, statistic methods.

September 2008 – July 2014

Graduated in Geography

Average EQF= 8.4

Universitat Autònoma de Barcelona (Autonomous University of Barcelona)

- Cartography, geomorphology, biogeography, demography, physical geography, human geography, statistics, mobility & transport, models in geography, GIS, theory and methods.

PERSONAL SKILLS

Mother tongue(s)

Catalan and Spanish. Willingness to learn German.

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C-1	C-1	C-1	B-2	B-1
	Trinity certificate (1996)				
French	A-2	A-2	A-2	A-1	A-1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Computer skills

- HTML, CSS, JavaScript, intermediate level. Experience in Web programming.
- MS-DOS and batch programming, intermediate level.
- Python, basic level.
- R, basic level (adding a one-week course focused on spatial analysis).

Driving licence

- B. Spain and European license.

ADDITIONAL INFORMATION

Honours and awards

- 10 out of ten final marks in the Graduation of Geography. One more for the MS final project.

Research Group Memberships

- Since 2014, in GRUMETS (Methods and Applications in Remote Sensing and Geographic Information Systems Research Group) SGR-1491.
http://www.grumets.uab.cat/index_eng.htm