



## BENTO M. R. MARTINS

**Nationality:** Portuguese

**Date of birth:** 28<sup>th</sup> November 1989

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LinkedIn profile link

## INTRO

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My personal interests are based on techniques and technologies that helps you map and understand Earth's surface, like remote sensing, photogrammetry, land surveying, etc aided by geographic information systems. Throughout my academic formation I had the opportunity to expand my knowledge on those areas, especially working on GIS software like ArcGIS and QuantumGIS. They also covered different areas like geodesy, hydrography and especially global navigation satellite systems, which my final master thesis is based on.

I consider myself a hardworking, responsible and highly motivated person, that strives for professionalism and quality in every task performed. I enjoy a multi-discipline and international environment as a way to improve knowledge in other areas and I can easily adapt to any situation. I am an easy-going person that can work perfectly in an independent working environment or in a team, even as team leader. I'm a passionate for outdoor activities and it reflects on my working profile, since I can perform fieldwork, data collection, under any circumstance like weather or location. I've worked for more than 9 months abroad and it improved my social skills but also my speaking capabilities, especially regarding English.

## WORK EXPERIENCE

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Apr. 2017 – Currently

### Researcher at Space & Earth Geodetic Analyses Laboratory (SEGAL)

Universidade da Beira Interior | R. Marquês d'Avila e Bolama | 6201-001 Covilhã | <http://www.ubi.pt> | <http://segal.ubi.pt/>

PORTUGAL

#### Tasks

Support on SOGRA – Supporting Optimized GNSS Research in Africa project. Configuration and installing of GNSS permanent stations. GNSS data processing using GNSS- PPP software like Gipsy from NASA's JPL, online PPP services and Trimble Business Center, and respective data analyses.

#### References

Rui Fernandes – SEGAL Coordinator ([rui@segal.ubi.pt](mailto:rui@segal.ubi.pt))

May 2015 – Mar. 2017

### Project Coordinator – Geomatic Engineer

Geolayer, Estudos de Território, Lda. | Praça do Choupal 19 | 3050-330 Mealhada | <http://www.geolayer.com>

PORTUGAL

#### Tasks

Infrastructures monitoring, measuring and data analyses:

- Ponte D. Maria I, Lagos, Portugal: precise levelling, laser scanning and target measurements with total station;
- Santarém Retail Park: precise levelling, targets measurement with total station and crack monitoring.

Land registry and property boundaries identification.

Data acquisition using land surveying equipment like total stations, GNSS receivers (RTK and post-processing) and level with respective map production, using CAD software; Data acquisition and analyses of UAV data and laser scanning;

#### References

João Ferreira – ex-CTO ([eg.jpff@gmail.com](mailto:eg.jpff@gmail.com))

Feb. 2014 – Aug. 2014

### Intern on Positioning, Navigation and Timing Team

Satellite Applications Catapult | Electron Building, Fermi Avenue, Harwell Didcot | OX11 0QR | <http://sa.catapult.org.uk>

UNITED KINGDOM

#### Tasks

Study of the effects of jamming on GNSS receivers; Scripting creation for GNSS data quality analysis; GNSS data visualization capabilities, including Google Maps API, OS' OpenSpace API and GIS tools; Use of different GNSS related equipment: receivers (from low-end to high-end), simulators, RF Recorders and Players; Contact with Galileo navigation system.

#### References

Chaz Dixon – Deputy CTO ([chaz.dixon@sa.catapult.org.uk](mailto:chaz.dixon@sa.catapult.org.uk))

Pedro Alfaró Sanz - Galileo GS Ops & Mnt Eng in European Global Navigation Satellite Systems Agency ([pedro.alfarosanz@gsa.europa.eu](mailto:pedro.alfarosanz@gsa.europa.eu))

- Feb. 2013 Freelancer on GIS** **PORTUGAL**  
 Easy Ambiente | Rua Doutor Ilídio Sardoeira, 20-7, 4400-107 Vila Nova de Gaia |  
<http://www.easyambiente.com>
- Tasks Development of thematic maps supporting the environmental impacts of building a micro hydro; Use of GIS software (ArcGIS) and multimedia software (Adobe Illustrator); Use of different map sources such as: topographic maps, Natura 2000 network and Portuguese environmental atlas.
- References Luís Oliveira – CEO (lfmoliveira@gmail.com)
- Mar. 2012 – May 2012 Extra-Curricular Internship** **PORTUGAL**  
 Faculty of Science of the University of Porto | Rua do Campo Alegre, s/n, 4169-007  
 Porto | <http://sigarra.up.pt/fcup/>
- Tasks Analyses of the evolution of Douro's river mouth; Creation of digital surface models using photogrammetric technics and temporal analyses of the evolution of the study area using GIS software.
- References José Alberto Gonçalves – Teacher (jagoncal@fc.up.pt)
- Sep. 2010 – Dec. 2010 Staff Member** **SWITZERLAND**  
 Kandersteg International Scout Centre (KISC) | CH-3718 Kandersteg, Bern |  
<http://www.kisc.ch>
- Tasks Outdoor activities, like hiking and climbing; Campsite maintenance; International relationships and communication; House managing and maintenance in construction room areas; Cooking.

## EDUCATION AND TRAINING

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**Jun. 2017 - Currently Currently on a Ph.D. on Geomatic Engineering**

Beira Interior University | Covilhã | Portugal

Main subjects Study of Ocean Tide Loading (OTL) effect, in order to improve tectonic research using Global Navigation Satellite System's data.

References Machiel Bos – Ph.D. Supervisor (msbos@segal.ubi.pt)

**Sep. 2013 – Dec. 2014 Master's degree on Geomatic Engineering**

Faculty of Science of the University of Porto | Porto | Portugal

Main subjects Geographic Information Systems (GIS); Global Navigation Satellite Systems (GNSS); Photogrammetry; Cartography; Remote sensing; Land surveying.  
 Master thesis on "GNSS Vulnerabilities & Robustness"

References Luísa Bastos – Teacher and Master's thesis advisor (lcbastos@fc.up.pt)

**Sep. 2007 – Jul. 2013 Bachelor's degree on Engineering Science – Geomatic Engineering branch**

Faculty of Science of the University of Porto | Porto | Portugal

Main subjects Math (algebra, analysis and statistics); Electromagnetism; Mechanic and waves; Physics laboratory; Programming; Satellite orbits; Field work; Hydrography; GIS; GNSS; Cartography; Computer-aided design.

**6 May 2013 Trimble Sketch-Up course**

*Ordem dos Engenheiros da Região Norte* | Porto | Portugal

Main subjects Introduction to Trimble Sketch-Up, applying basic commands; Creation of digital surface models; Georeferencing methods.

**25 April 2009 Defensive driving course**

*Escola de Formação da Condução e Prevenção Rodoviária (ECP)* in the Engineer Faculty of the University of Porto | Porto | Portugal.

Main subjects Theory on safety, driving precautions and best driving techniques; Practical exercises simulating real road obstacles and how to overtake them, using active safety car systems.

## LANGUAGE SKILLS

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Portuguese Native language

	Understanding		Speaking		Writing
	Listening	Reading	Interaction	Production	
English	C1	C1	B2	B2	B2
Spanish	C1	C1	B2	B1	A2
French	A2	B1	A2	A2	A1
Arabic	A1	A1	A1	A1	A1

Levels: A1/2: Basic user | B1/2: Independent user | C1/2: Proficient user

Common European Framework of Reference for Languages

## SKILLS

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Computer Operative Systems: Mac OS X, Windows and Linux;  
Programming: Matlab and Python;  
GIS software: ArcGIS, Quantum GIS and gvSIG;  
CAD software: AutoCAD;  
Photogrammetry: PCI Geomatica, ApplicationMaster, Agisoft Photoscan, Pix4D and 3D survey;  
Other geo-data relative software: FWTools, Surfer and Google Earth;  
Multimedia software: AdobePhotoshop, Illustrator and Premiere;  
Microsoft Office Suite: Word, Excel, Powerpoint and Visio.

Driving License B category (since 2008);  
B1 category (since 2008);  
A1 category (since 2014).

## VOLUNTEERING

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Scouting Membership on *Corpo Nacional de Escutas* (CNE) since 2006;  
Member of the international team of CNE from 2012 to 2014;  
Representative of CNE on an international scout forum in Switzerland in 2011.  
Participation as a leader/planning team in international scout camps in Spain, Switzerland, England and Denmark;

Events Support to new students on faculty registration | 2011, 2012 and 2013 | Porto | Portugal;  
Representative of Science Faculty of the University of Porto in the exposition "Qualifica" | 2012 | Matosinhos | Portugal;  
Volunteer on several music festivals and cultural events | 2009 to 2011 | Portugal;  
Volunteer on several sport events including Portugal's national team home games | 2009 to 2010 | Portugal;  
Volunteer on the declaration of the new 7 wonders of the World and Portugal | 2007 | Lisbon | Portugal.