


PERSONAL INFORMATION

Jorge Miguel dos Reis Silva

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WORK EXPERIENCE

- 1979–1997 **Merchant Marine Radio Officer**
SOPONATA - Sociedade Portuguesa de Navios Tanques, Lisbon (Portugal)
- 1988–1995 **Aeronautical Telecommunications Technician**
ANA - Aeroportos e Navegação Aérea, Lisbon (Portugal)
- 1995–Present **Professor**
University of Beira Interior, Covilhã (Portugal)

EDUCATION AND TRAINING

- 1993 **Graduation in Marine Systems Engineering of Electronics and Telecommunications**
Escola Superior Náutica Infante D. Henrique, Oeiras (Portugal)
- 1996 **MSc in Operations Research and Systems Engineering**
Instituto Superior Técnico, Lisbon (Portugal)
- 2005 **PhD in Transportation**
Instituto Superior Técnico, Lisbon (Portugal)

PERSONAL SKILLS

Mother tongue(s) Portuguese

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	C1	C1	C1	C1	C1
Spanish	B2	B2	B2	B2	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills Good communication skills gained through education and work experience.

Organisational / managerial skills Leadership (currently responsible for a research team of 18 people).

Job-related skills

Areas of scientific activity - Transportation (in general) and (Air Transport) in particular (including Operations Research).

2006/2009 - President of the Scientific Council of the Aerospace Sciences Department of University of Beira Interior.

2007/2015 - Full Researcher of the Aeronautics and Astronautics Research Center (AeroG, member of CEAS and EASN) of the Associated Laboratory in Energy, Transports and Aeronautics (LAETA).

Since 2015 - Full Researcher at the Institute for Research and Innovation in Civil Engineering for Sustainability (CERIS).

Since 2005 - Supervisor of 45 MSc thesis and 10 Graduation Final Works (5 year curriculum) in the Scientific Domain of Aeronautical Engineering.

Since 2014 - Supervisor of 5 PhD thesis in the Scientific Domain of Aeronautical Engineering.

Since 2005 - Publication of: 1 PhD thesis, 10 books chapters, 10 articles in international journals with scientific referee, 6 articles in national journals with scientific referee, and more than 100 communications in the proceedings of national and international scientific meetings; examples:

Miguel Miranda, Maria E. Baltazar & Jorge Silva (2016) Airlines Performance and Efficiency Evaluation using a MCDA Methodology. The Case for Low Cost Carriers vs Legacy Carriers, *Open Engineering*, Vol 6 (1), 389–396.

Luís Patrão, Sara Zorro & Jorge Silva (2016) Physiological Factors Analysis in Unpressurized Aircraft Cabins, *Open Engineering*, Vol 6 (1), 381–384.

Miguel Almeida, Luís Mário Ribeiro, Domingos Xavier Viegas, José Raul Azinheira, Alexandra Moutinho, João Caldas Pinto, Jorge Barata, Kouamana Bousson, Jorge Silva, Marta Martins, Rita Ervilha & José Carlos Pereira (2016) Analysis of Fire Hazard in Campsite Areas, in *Fire Technology*, Vol 52 (3), 1-23.

Margarida Vaz, Maria E. Baltazar & Jorge Silva (2015) Dynamic Processes of an Airport's System. Applying Value Network Analysis (VNA) to the Air Traveller Experience, in *Journal of Spatial and Organizational Dynamics*, Vol III (4), 311-329.

João Jardim, Maria E. Baltazar, Jorge Silva & Margarida Vaz (2015) Airports Operational Performance and Efficiency Evaluation Based on Multicriteria Decision Analysis (MCDA) and Data Envelopment Analysis (DEA) Tools, in *Journal of Spatial and Organizational Dynamics*, Vol III (4), 263-308.

Luís Patrão, Sara Zorro, André Marques, Ana Coelho & Jorge Silva (2015) Pilots performance and flight safety: flight physiology in unpressurized aircraft cabins, in *Journal of Air Transport Studies*, Vol 6 (1), 1-12.

Miguel Almeida, Luís Mário Ribeiro, Domingos Xavier Viegas, José Raul Azinheira, Alexandra Moutinho, João Caldas Pinto, Jorge Barata, Kouamana Bousson, Jorge Silva, Marta Martins, Rita Ervilha, José Carlos Pereira (2014) Analysis of fire hazard in camping park areas, in *Advances in forest fire research*, 3 – *Fire Management*, 635–647.

Maria João Fontes, Anabela Ribeiro, Jorge Silva (2014) *Accessibility and Local Development: Interaction between Cross-border Accessibility and Local Development in Portugal and Spain*, *Procedia – Social and Behavioral Sciences* (Elsevier), Vol. 111, 2014, pp. 927–936.

Maria E. Baltazar, João Jardim, Pedro Alves & Jorge Silva (2014) Air Transport Performance and Efficiency: MCDA Vs. DEA Approaches, *Procedia – Social and Behavioral Sciences* (Elsevier), Vol. 111, 2014, pp. 790–799.

Margarida Vaz, Jorge Silva, Maria E. Baltazar & Tiago Marques (2014) Regional airports, tourism and development: Two Portuguese case studies, in *Tourismos*, Vol 9 (1), 239–251.

Patrão, L. and Zorro, S. and Silva, J. and Castelo-Branco, M. and Ribeiro, J. “Flight physiology training experiences and perspectives: Survey of 117 pilots”, DOI: [10.3357/ASEM.3545.2013](https://doi.org/10.3357/ASEM.3545.2013), Vol. 84, No. 6, *Aviation Space and Environmental Medicine*, 2013, pp. 620-624, <http://dx.doi.org/10.3357/ASEM.3545.2013>

Maria J. Fontes, Anabela Ribeiro, Jorge Silva & Matias Mayor (2013) Cross-border accessibility and local development in Portugal and Spain, in *Estadística Española*, Vol 55 (180), 77–94.

Medeiros, D.M.C., Silva, J.M.R and Bousson, K. (2012) RNAV and RNP AR approach systems: the case for Pico Island airport, in *International Journal of Aviation Management*, Special Issue on Advances in Air Traffic Management and regional Connectivity, ISSN 1755-990, 181-200.

Rodrigues, C.V.C, Silva, J.M.R and Bousson, K. (2012) Advanced air traffic management technologies: the ADS-B impact over ATM concepts. The case for Portugal, in *International Journal of Aviation Management*, Special Issue on Advances in Air Traffic Management and regional Connectivity, ISSN 1755-990, 162-180.

Margarida Vaz, José Manso, Jorge Silva, Maria E. Baltazar & Tiago Reis (2012) Tourism and Regional Growth: A Panel Data Approach, in *Journal of Tourism and Development*, Vol 3 (17/18), 1781–1792.

João Leitão & Jorge Silva (2012) Spatial life cycle and institutional platform of the Cova da Beira City-Region, in *Revista Portuguesa de Estudos Regionais*, Vol 30 (1), 57–64.

Ribeiro, A. and Silva, J. (2011) A Spatial Regression Analysis on Cross-Border Relation between Accessibility and Spatial Development, in *Investigaciones Regionales*, n.º 21, Special Issue on Contributions to Spatial Econometrics, ISSN: 1695-7253, 141-156.

Since 2007 - Participation as a Researcher and/or Coordinator in University of Beira Interior in 10 national and international projects within the framework of: Agência de Inovação (ADI), Ministerio de Fomento de España, Massachusetts Institute of Technology (MIT, including the supervision of 7 research fellows), LAETA, and Quadro de Referência Estratégico Nacional (QREN (including the supervision of 3 research fellows).

2012/2015 - Submission of 4 Provisional Patent Applications in the Scientific Domain of Aeronautical Engineering.

Since 2005 - Development of consulting activity for: ADIST - Associação para o Desenvolvimento do Instituto Superior Técnico, AECBP – Associação Empresarial da Covilhã Belmonte e Penamacor, ANA Consulting, Câmara Municipal de Belmonte, Câmara Municipal de Vila Real, CESUR, CISED Consultores, GIBB Portugal, Ministério da Ciência e da Tecnologia (Gabinete de Gestão do PRODEP), Parques Tejo - Parques de Oeiras, Partis - Serviços, and TIS.pt.

President of the Associação de Investigação Científica em Engenharia Aeroespacial (AEROG).

Member of the Associação Portuguesa de Investigação Operacional (APDIO, member of IFORS).

Member of the Associação Portuguesa para o Desenvolvimento Regional (APDR, member of RSAI).

Member of the American Institute of Aeronautics and Astronautics (AIAA).