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José Leandro Barros

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Curriculum

PhD in Territory, Risk and Public Policies from the Universities of Aveiro, Coimbra and Lisbon, Master of Risk Science at the University of Coimbra and a degree in Geography from the University of Coimbra. Since 2012 has been a research fellow at the Centre for Social Studies of the University of Coimbra (CES-UC) in the projects "TsuRIMA - TSunami Risk Management for spatial planning and civil protection", "FORLAND - Hydro-geomorphologic risk in Portugal: driving forces and application for land use planning" and "Mosaic.pt - Multi-source flood risk analysis for safe coastal communities and sustainable development". In 2023 was research assistant in the project "Risk-AquaSoil - Atlantic Risk Management Plan in water and soil" at the Center for Social Studies, also belonging to the Risk Observatory (OSIRIS). Over time he has participated in several research projects where acquired different skills and knowledge in the area of Risk Sciences. Among the tasks, stand out the assessment and analysis of territorial vulnerability related to overtopping and coastal flooding, development of methodologies for defining coastal typologies, the creation and development of a historical database of occurrences of coastal flooding and also of hydro-geomorphological origin, the construction of vulnerability indices, assessment and calculation of social and territorial vulnerability, identification and analysis of exposed elements, assessment and analysis of land use dynamics and elaboration of different cartographic outputs, namely risk and vulnerability maps. Also noteworthy is his knowledge and application of different GIS tools (desktop and mobile) and their different uses, namely in terms of applications in land use planning, risk analysis, management and assessment and flood risk management coastal. His research interests focus on resilience, risk assessment and management, social and territorial vulnerability, analysis and assessment of land use change, coastal flooding and coastal flooding adaptation strategies.

Research Interests

Risk assessment and management

Social and Territorial Vulnerability

Land use change
Systemic risks
Drought risk
Floods and coastal vulnerability

Academic Qualifications

University/Institution	Type	Degree	Period
University of Coimbra, University of Lisbon and University of Aveiro.	PhD	Territory, Risk and Public Policies	2022

Supervisions

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Tiago Ludovino	A Gestão do Risco no Centro Histórico de Lamego: Uma Abordagem Diferenciada	English	Developing	Iscte

Total Citations

Web of Science®	82
Scopus	85

Publications

• Books and Book Chapters

- Book chapter

1	Tavares, A.O., Barros, J. L., Santos, P.P. & Mendes, J.M. (2018). A new approach for social vulnerability in mainland Portugal area for risk mitigation. In Safety and Reliability - Safe Societies in a Changing World. (pp. 1719-1726). - Times Cited Scopus: 1 - Times Cited Google Scholar: 3
2	Barros, J. L., Emídio, A., Santos, Ângela & Tavares, A.O. (2015). Composite methodology for tsunami vulnerability assessment based on the numerical simulation of 1755 Lisbon tsunami; application on two Portuguese coastal areas. In (pp. 1581-1588). - Times Cited Web of Science®: 5 - Times Cited Google Scholar: 10

3	Fonte, André, Barros, J. L., Tavares, Alexandre Oliveira & Santos, Ângela (2015). Avaliação municipal da vulnerabilidade a inundações por tsunamis. In: Imprensa da Universidade de Coimbra.
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• Other Publications

- Non-peer-reviewed papers

1	Barros, J. L., Santos, Pedro Pinto, Tavares, Alexandre Oliveira, Freire, Paula, Fortunato, André Bustorff, Rilo, Ana...Oliveira, Filipa S.B.F. (2023). The complexity of the coastal zone: Definition of typologies in Portugal as a contribution to coastal disaster risk reduction and management. <i>International Journal of Disaster Risk Reduction</i> . 86, 103556 - Times Cited Web of Science®: 9 - Times Cited Scopus: 11 - Times Cited Google Scholar: 12
2	Tavares, Alexandre Oliveira, Barros, J. L., Freire, Paula, Santos, Pedro Pinto, Perdiz, Luís & Fortunato, André Bustorff (2021). A coastal flooding database from 1980 to 2018 for the continental Portuguese coastal zone. <i>Applied Geography</i> . 135, 102534 - Times Cited Web of Science®: 20 - Times Cited Scopus: 21 - Times Cited Google Scholar: 38
3	Tavares, Alexandre Oliveira, Monteiro, Mário, Barros, J. L. & Santos, Pedro Pinto (2019). Long-term land-use changes in small/medium-sized cities. Enhancing the general trends and local characteristics. <i>European Planning Studies</i> . 27 (7), 1432-1459 - Times Cited Web of Science®: 10 - Times Cited Scopus: 12 - Times Cited Google Scholar: 22
4	Barros, J. L., Tavares, A.O., Monteiro, M. & Santos, P.P. (2018). Peri-urbanization and rurbanization in Leiria city: The importance of a planning framework. <i>Sustainability (Switzerland)</i> . 10 (7) - Times Cited Web of Science®: 21 - Times Cited Scopus: 23 - Times Cited Google Scholar: 33
5	Barros, J. L., Tavares, A.O., Santos, P.P. & Fonte, André (2015). Territorial vulnerability assessment supporting risk managing coastal areas due to tsunami impact. <i>Water (Switzerland)</i> . 7 (9), 4971-4998 - Times Cited Web of Science®: 17 - Times Cited Scopus: 17 - Times Cited Google Scholar: 23
6	Tavares, Alexandre O., Barros, J. L., dos Santos, Pedro P., Zêzere, José L., Tavares, Alexandre O, Barros, José...Zêzere, José Luís (2013). Hydro-geomorphologic disasters in the Baixo Mondego region in the period 1961-2010. <i>Territorium</i> . 20 (20), 65-76

- Master's Dissertation

1	Barros, J. L. (2010). Natural and technological hazards in the municipality of Lamego. Contribution to municipal emergency planning and management.
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- Doctoral Thesis

1	Barros, J. L. (2022). The relevance of land use and territorial vulnerability for understanding the impacts and
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	local drivers of risk management.
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- Report

1	Barros, J. L. (2019). Caracterização e enquadramento das bacias do rio Cavalos, ribeira de Pomares e Cerdeira. Aspetos metodológicos para a análise da dinâmica de uso e transformação do solo em resultado dos incêndios de 15 de outubro de 2017.
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Research Projects			
Project Title	Role in Project	Partners	Period
Urban Adaptation and Alert Solutions for a TIMELY (re)Action	Researcher	ISTAR-Iscte (IS) - Global coordinator, ISTAR-Iscte (DLS), UNIZA - (Slovakia), DANMARKS TEKNISKE UNIVERSITET - (Denmark), WEO SAS - (Luxembourg), KAJO SRO - (Slovakia), ICONS - (Italy), ONE - (Italy), TUU - (Portugal), UP - (Portugal), LIST - (Luxembourg), TECNALIA - (Spain), UDEUSTO - (Spain), TH KOLN - (Germany), ŽSK - (Slovakia), IBS - (Estonia), TEAM - (Spain), VELTIS - (Spain), LCC - (Portugal)	2024 - 2028