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## Susana Ribeiro Fernandes

### Research Assistant

ISTAR-Iscte - Information Sciences, Technologies and Architecture Research Centre



### Contacts

#### E-mail

susana.fernandes@iscte-iul.pt

### Curriculum

Susana Ribeiro Fernandes holds a BSc in Computer Science and Business Management and a MSc in Integrated Decision Support Systems from ISCTE- University Institute of Lisbon (Magna cum Laude). She is a Ph.D candidate in Information Sciences and Technologies at ISCTE- University Institute of Lisbon. Her research interests are advanced analytics for finance and accounting, earnings management, european Union funds, data quality and information systems.

She is a research assistant at ISTAR-Information Sciences, Technologies and Architecture Research Center. She is involved in scientific projects that are related with machine learning applications to improve the management of european union funds, with emphasis on "IA-Incentivos - artificial intelligence in incentive management" and "MAIPRO - project non-compliance monitoring and alert". She also gave lectures on data analytics for both bachelor 's and master's students. She joined the Tax and Customs Authority (AT) in January of 2015, as a Tax and Customs Auditor, with the role of senior data scientist. She has conducted several studies to prevent tax evasion, segmentation and compliance of taxpayers. Using advanced analytics to detect fraud and non-compliance risk was the broad focus of the work. In addition, she worked for 20 years at IAPMEI, a public institute that promotes competitiveness and business growth and is responsible for attributing and verifying financial incentives from the european union funds to portuguese small medium enterprises (SMEs).

### Research Interests

Data Mining

European Funds

Data Quality

Earning Management
Data Science

## Academic Qualifications

University/Institution	Type	Degree	Period
ISCTE - University Institute of Lisbon	M.Sc.	Integrated Systems for Decision Support	2012
ISCTE - University Institute of Lisbon	Post-graduation	Business Intelligence	2011
ISCTE - University Institute of Lisbon	Licenciante	Computer Science and Management	2010

## External Professional Activities

Period	Employer	Country	Description
Since 2015	Tax and Customs Authority	Portugal	

## Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord.
2019/2020	2º	Statistics II	Bachelor Degree in Finance and Accounting;	No
2019/2020	1º	Introduction to Data Analytics	Institutional Degree in ISCTE Business School;	No
2019/2020	1º	Accounting Information Analysis		No
2019/2020	1º	Applied Quantitative Methods in Accounting		No

## Publications

### • Conferences/Workshops and Talks

#### - Publication in conference proceedings

1	<p>Fernandes, S., Laureano, R. M. S., Abrantes, C. &amp; Laureano, L. M. S. (2021). Detecção de manipulação de resultados e seu impacto nos fundos europeus: Uma abordagem analítica. In Rocha, A., Gonçalves, R., Penalvo, F. G., &amp; Martins, J. (Ed.), 2021 16th Iberian Conference on Information Systems and Technologies (CISTI). Chaves: IEEE.</p> <p>- Times Cited Google Scholar: 1</p>
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2	Fernandes, S. & Laureano, R. M. S. (2019). Manipulação de resultados e fraude nas candidaturas a fundos Europeus: Estudo em empresas Portuguesas. In XX Congreso International AECA. Málaga, Espanha: Asociación Española de Contabilidad y Administración de Empresas. - Times Cited Google Scholar: 3
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**- Talk**

1	Fernandes, S. Ribeiro & Laureano, Raul M. S. (2022). SME profiles prone to earnings manipulation: Hybrid model based on cluster analysis and decision trees. 53rd World Continuous Auditing & Reporting Symposium.
2	Fernandes, S. Ribeiro, Laureano, Raul M. S., Catarina Abrantes & Laureano, L. (2021). Earnings management detection and its impact on european funds: a data analytics approach. 2021 16th Iberian Conference on Information Systems and Technologies (CISTI).
3	Fernandes, S. Ribeiro, Laureano, Raul M. S. & Laureano, L. (2020). How to detect the manipulation of financial statements in EU financial incentives in Portugal. XXVI Jornadas de Classificação e Análise de Dados – JOCLAD 2020.
4	Fernandes, S. Ribeiro, Laureano, Raul M. S. & Laureano, L. (2020). How to detect the manipulation of financial statements in EU financial incentives in Portugal. 48th World Continuous Auditing and Reporting Symposium.
5	Fernandes, S. Ribeiro (2020). Uma viagem pelo Data Mining com dados financeiros. WICTA'2020 - 7th edition of WICTA, Special Interest Group on ICT for Auditing & Accounting .
6	Fernandes, S. Ribeiro & Laureano, Raul M. S. (2019). Public Governance: as organizações públicas e a distribuição inteligente de incentivos financeiros às empresas. II Congresso Internacional de Contabilidade Pública – Reforma da Gestão Financeira Pública: Desafios para a investigação e a prática.
7	Fernandes, S. Ribeiro & Laureano, Raul M. S. (2018). Desenvolvimento de algoritmos de deteção de padrões e fraude na verificação de incentivos financeiros. Data Science no ISCTE-IUL.
8	Fernandes, S. Ribeiro (2011). “O uso de data mining na previsão do desempenho das empresas portuguesas”. SAS Forum 2011.

**• Other Publications**

**- Master's Dissertation**

1	Fernandes, S. Ribeiro (2011). O uso de data mining na previsão do desempenho das empresas portuguesas: estudo de casos no âmbito do SIME – Sistema de Incentivos à Modernização Empresarial.
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## Research Projects

Project Title	Role in Project	Partners	Period
Project Non-compliance Monitoring and Alert	Researcher	ISTAR-Iscte (SCM), CIES-Iscte	2022 - 2023

Artificial Intelligence in Incentive Management	Researcher	DINAMIA'CET-Iscte (GEC) - Leader, ISTAR-Iscte, BRU-Iscte, CIES-Iscte, AICEP - Portugal Global - (Portugal), IAPMEI - (Portugal)	2020 - 2021
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## Professional Associations

SPE - Portuguese Statistical Society (Since 2020)

## Diffusion Activities

Activity Type	Event Title	Activity Description	Year
Talk/Conference in public diffusion event	WICTA'2021 - 8th edition of WICTA, Special Interest Group on ICT for Auditing & Accounting	Detecting performance manipulation and its impact on European funds: an analytical approach	2021
Talk/Conference in public diffusion event	WICTA'2020 - 7th edition of WICTA, Special Interest Group on ICT for Auditing & Accounting	Keynote - A tour through Data Mining with Financial Data	2020
Talk/Conference in public diffusion event	Coimbra Business School	A inteligência nos dados financeiros – aplicações práticas	2019
Talk/Conference in public diffusion event	SAS Forum		2012