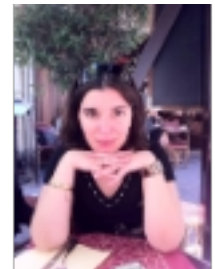


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## Andreia Pereira

### Research Assistant

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



### Contacts

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### Curriculum

Andreia Penso Pereira is a data analyst, graduated in Mathematics and in Applied Mathematics to Statistics and Operational Research, and post-graduated in Business Intelligence.

Senior technical for about 10 years, in the Northern Regional Health Administration, she collaborated in the development of the institution's business intelligence solutions, in the planning and implementation of population-based screening programs, as well as in numerous projects concerning health resources optimization, namely:

- Identification of the care profile of the Northern Rehabilitation Center,
- Characterization of disabilities associated with diabetes,
- Project of the National Commission for the Development of Outpatient Surgery,
- Project of the Commission for the Reduction of the Rate of Caesarean section,
- Implementation of Porto's Integrated Pediatric Emergency (UPIP),
- ISARE Project - Health Indicators of the European Regions, financed by the European Community (integrated in the Health Monitoring Program) and proposed by FNORS (Fédération nationale des observatoires régionaux de la santé)

She is currently an inspector of the Tax Authority in the area of statistics and data science, developing models to combat fraud and tax evasion.

She is a doctoral student at Iscte-Instituto Universitário de Lisboa in complexity sciences, dedicating herself to the investigation of simulation models for the analysis and optimization of population-based screening programmes.

### Research Interests

Business Intelligence

Computer simulation

Complexity Sciences
Data Mining
Decision Support Systems
Public health
Tax fraud

## Academic Qualifications

University/Institution	Type	Degree	Period
Universidade do Minho	Licenciante	Licenciatura em Matemática Aplicada à Estatística e Investigação Operacional	17
Universidade do Minho	Licenciante	Licenciatura em Matemática Ensino	7

## Total Citations

Web of Science®	5
Scopus	9

## Publications

### • Scientific Journals

#### - Scientific journal paper

1	Pereira, A. P., Afonso, A., Laureano, R. M. S. & Neto, F. B. de L. (2024). The role of the social network in the study of adherence to diabetic retinopathy screening programs. Scientific Reports. 14 (1) - Times Cited Google Scholar: 1
2	Pereira, A. P., Macedo, J., Afonso, A., Laureano, R. M. S. & Neto, F. B. de L. (2024). The use of social simulation modelling to understand adherence to diabetic retinopathy screening programs. Scientific Reports. 14 (1) - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
3	Pereira, A., Laureano, R.M. S. & Neto, F. (2021). Five regions, five retinopathy screening programmes: a systematic review of how Portugal addresses the challenge. BMC Health Services Research. 21 (1) - Times Cited Web of Science®: 4 - Times Cited Scopus: 6 - Times Cited Google Scholar: 13

### • Conferences/Workshops and Talks

**- Publication in conference proceedings**

1	Pereira, A., Laureano, Raul M. S. & Neto, F. (2026). Simulation of human behaviour in adherence to preventive health programmes A methodological proposal and an example of its application. In 2024 19th Iberian Conference on Information Systems and Technologies (CISTI). (pp. 100-112). Salamanca: IEEE. - Times Cited Google Scholar: 1
2	Pereira, A., Laureano, R. M. S., Neto, F. & Macedo, J. (2021). Simulação computacional da adesão ao rastreio da retinopatia diabética: Modelo baseado em agentes dotados de lógica fuzzy. In Rocha, A., Gonçalves, R., Penalvo, F. G., & Martins, J. (Ed.), 2021 16th Iberian Conference on Information Systems and Technologies (CISTI). Chaves: IEEE. - Times Cited Scopus: 1
3	Pereira, A., Laureano, R. M. S., Neto, F. & Macedo, J. (2020). Adesão ao rastreio da retinopatia diabética: Um modelo de simulação baseado em agentes. In Mesquita, A., Moreira, F., Soares, L., and Viamonte, M. J. (Ed.), 20ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2020). (pp. 21). Porto: Associação Portuguesa de Sistemas de Informação. - Times Cited Google Scholar: 1
4	Pereira, A., Bruno Paula Cardoso & Laureano, Raul M. S. (2018). Business intelligence: Performance and sustainability measures in an ETL process. In 2018 13th Iberian Conference on Information Systems and Technologies (CISTI). (pp. 1-6). Cáceres, Spain: IEEE. - Times Cited Scopus: 1 - Times Cited Google Scholar: 10

**- Talk**

1	Pereira, A., Laureano, Raul M. S. & Neto, F. (2024). Simulation of human behaviour in adherence to preventive health programmes A methodological proposal and an example of its application. CISTI'2024 - 19th Iberian Conference on Information Systems and Technologies.
2	Pereira, A., Laureano, Raul M. S. & Neto, F. (2022). How can the social network affect the decision to adhere to diabetic retinopathy screening?. IO2022 - XXII Congresso da Associação Portuguesa de Investigação Operacional.
3	Pereira, A., Laureano, Raul M. S., Neto, F. & Macedo, J. (2021). Computer simulation of diabetic retinopathy screening adherence: Agent based model with fuzzy logic. 2021 16th Iberian Conference on Information Systems and Technologies (CISTI). - Times Cited Google Scholar: 3
4	Pereira, A., Laureano, Raul M. S., Neto, F. & Macedo, J. (2020). Adesão ao Rastreio da Retinopatia Diabética: um Modelo de Simulação Baseado em Agentes. 20ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2020).
5	Pereira, A., Bruno Paula Cardoso & Laureano, Raul M. S. (2018). Business intelligence: Performance and sustainability measures in an ETL process. 2018 13th Iberian Conference on Information Systems and Technologies (CISTI).