

Curriculum Vitae

Bruno Veloso

Bruno Veloso is an Associate Professor and the Director of the Executive Master in Business Analytics at the School of Economics and Management, University of Porto (FEP), as well as a Researcher at the Institute for Systems and Computer Engineering, Technology and Science (INESC TEC). He holds a PhD in Telematics Engineering from the Universidade de Vigo (2017), along with an Integrated Master's Degree (2012) and a Licentiate Degree (2010) in Electrical and Computer Engineering from the Instituto Superior de Engenharia do Porto (ISEP), Polytechnic Institute of Porto.
Working at the intersection of engineering, technology, and management, his primary research focuses on Electrical and Computer Engineering, Electronics, Informatics, and Artificial Intelligence. Throughout his career, he has built an extensive scientific output comprising 45 peer-reviewed journal articles, 25 book chapters, and 2 books, collaborating with an international network of 216 co-authors. He has participated in 15 research and development projects—serving as Co-Principal Investigator on one, Researcher on twelve, and as a PhD and Master's Research Fellow on two others—and has received four academic honors and awards.
In addition to his research, Bruno Veloso is deeply committed to academic mentorship and scientific community leadership. He has supervised 35 Master's dissertations and co-supervised 19 more, while organizing six scientific events and actively participating in five others. His multidisciplinary work spans diverse domains, including Ethical AI, Anomaly Detection, Network Sciences, Industrial Management, Technology Transfer, and Business Analytics.

Identification

Personal identification

Full name
Bruno Veloso

Gender
Male

Birth date
1988/02/20

Citation names

Veloso, Bruno

Author identifiers

Ciência ID
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Knowledge fields

Engineering and Technology - Electrotechnical Engineering, Electronics and Informatics

Languages

Language	Speaking	Reading	Writing	Listening	Peer-review
English	Advanced (C1)	Advanced (C1)	Advanced (C1)	Advanced (C1)	
French	Beginner (A1)	Intermediate (B1)	Beginner (A1)	Beginner (A1)	

Education

	Degree	Classification
2013/03/01 - 2017/09/11 Concluded	Telematics Engineering (Doctor) Universidade de Vigo, Spain *"Media Content Personalisation Brokerage Platform"* *(THESIS/DISSERTATION)*	Sobresaliente cum laude
2010/09/01 - 2012/10/31 Concluded	Engenharia Eletrotécnica e de Computadores (Integrated Master's Degree) Major in Ramo das Telecomunicações Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal *"Media components transaction supported by agents."* *(THESIS/DISSERTATION)*	

2007/09/01 - 2010/07/31 Concluded	Engenharia Eletrotécnica e de Computadores (Licenciate Degree) Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal	

Affiliation

Science

	Category Host institution/organization	Employer
2013/03/01 - Current	Researcher (Research) Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal

Teaching in Higher Education

	Category Host institution/organization	Employer
2025/07/01 - Current	Associate Professor (University Teacher)	Universidade do Porto Faculdade de Economia, Portugal
2023/02/01 - 2025/06/30	Assistant Professor (University Teacher)	Universidade do Porto Faculdade de Economia, Portugal
2022/09/01 - 2023/01/31	Invited Assistant Professor (University Teacher)	Universidade do Porto Faculdade de Economia, Portugal
2018/09/01 - 2023/01/31	Assistant Professor (University Teacher)	Universidade Portucalense Infante Dom Henrique, Portugal
2021/09/01 - 2022/07/31	Invited Assistant Professor (University Teacher)	Universidade do Porto Faculdade de Economia, Portugal

2021/05/01 - 2021/07/31	Invited Assistant (Polytechnic Teacher)	Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal
2019/09/01 - 2020/08/31	Invited Assistant Professor (University Teacher) Universidade do Porto Faculdade de Economia, Portugal	Universidade do Porto Faculdade de Economia, Portugal

Positions / Appointments

	Category Host institution/organization	Employer
2020/09/01 - 2023/01/31	Coordinator of the Bsc in Informatics Engineering	Universidade Portucalense Infante Dom Henrique, Portugal

Others

	Category Host institution/organization	Employer
2025/12/01 - Current	Director of the Executive Master in Business Analytics	Universidade do Porto Faculdade de Economia, Portugal
2020/09/01 - 2023/01/31	Coordinator of the Msc Data Science	Universidade Portucalense Infante Dom Henrique, Portugal

Projects

Grant

	Designation	Funders
2017/11/22 - 2018/06/30	TEC4Growth – RL SMILES – Smart, mobile, Intelligent and Large Scale Sensing and analytics NORTE-01-0145-FEDER-000020 PhD Student Fellow Laboratório de Inteligência Artificial e Apoio à Decisão, Portugal	European Commission, Belgium Concluded

2014/08/18 - 2014/12/31	CloudAnchor: Modular Platform for the Integration and Management of Federated Cloud Computing Platforms QREN 23151 Master Student Fellow Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal	Concluded

Contract

	Designation	Funders
2025/01/01 - 2029/12/31	INESC TEC – Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência UID/50014/2025 10.54499/UID/50014/2025 Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Ongoing
2026/01/01 - 2028/12/30	NatVALUE: Valorização Sustentável da Natureza NORTE2030-FEDER-01193500 Researcher Universidade do Porto Faculdade de Economia, Portugal	Comissao de Coordenacao e Desenvolvimento Regional do Norte, Portugal Ongoing
2026/01/01 - 2028/12/30	Online Artificial Intelligence for IT Operations 2.0 NORTE2030-FEDER-01476000 Researcher Universidade do Porto Faculdade de Economia, Portugal	Agência Nacional de Inovação SA, Portugal Ongoing
2025/06/01 - 2028/05/31	PROD-AI: Nova solução IA/ML preditiva aplicada ao procurement e gestão de produção COMPETE2030-FEDER-01474600 Researcher Universidade do Porto Faculdade de Economia, Portugal	European Commission, Belgium Ongoing
2025/10/01 - 2028/03/31	AI Researchers 2025-1-PL01-KA220-HED-000358408 Researcher Universidade do Porto Faculdade de Economia, Portugal	European Commission, Belgium Ongoing
2023/09/01 - 2027/02/28	Artificial intelligence for better opportunities and scientific progress towards trustworthy and human-centric digital environment 101135737 Researcher	European Commission, Belgium Ongoing

	Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	
2024/01/02 - 2026/06/30	Programa de Formação Multidisciplinar da U.Porto - Impulso Mais Digital (STEAM-UP) PRR - 07/C06-i07/2024.P11071 Researcher Universidade do Porto Faculdade de Economia, Portugal	Governo da República Portuguesa Ministério da Ciência Tecnologia e Ensino Superior, Portugal Ongoing
2024/01/01 - 2026/06/30	INOV - NORTE - Centro de Excelência de Inovação Pedagógica na Região do Norte PRR - 08/C06-i07/2024.P11078 Researcher Universidade do Porto Faculdade de Economia, Portugal	Governo da República Portuguesa Ministério da Ciência Tecnologia e Ensino Superior, Portugal Ongoing
2025/03/01 - 2026/01/31	Enhancing Environmental Protection: Anomaly Detection in Waste Transportation using Network Science 2024.07677.IACDC 10.54499/2024.07677.IACDC Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded
2021/01/01 - 2025/12/31	INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência (INESC TEC) LA/P/0063/2020 10.54499/LA/P/0063/2020 168195UID Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Ongoing
2024/01 - 2025/12	AI Leaders: Ethical AI for Future Business Leaders 2023-2-PL01-KA220-HED-000180952 Researcher Universidade do Porto Faculdade de Economia, Portugal	Commission of the European Communities, Belgium Concluded
2020/01/01 - 2024/12/31	INESC TEC- Institute for Systems and Computer Engineering, Technology and Science UIDP/50014/2020 10.54499/UIDP/50014/2020 Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded

2021/03/01 - 2024/02/29	Explainable Predictive Maintenance CHIST-ERA/0004/2019 Co-Principal Investigator (Co-PI) INESC Porto, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded
2018/12/01 - 2021/08/31	FailStopper - Early detection of public transport vehicle breakdowns in an operational environment DSAIPA/DS/0086/2018 Researcher INESC Porto, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded
2020/01/01 - 2021/06/30	Base Fuinding - Multiannual Financing Program for R&D Units (2017/2018) 10.54499/UIDB/50014/2020 GREENPEG - INESC TEC	Fundação para a Ciência e a Tecnologia, Portugal Concluded
2019/04/01 - 2019/12/31	ML-ABA - Machine Learn based Adaptive Business Assurance, Individual Demonstration Projects FCOMP-01-0202-FEDER-038204 Researcher Laboratório de Inteligência Artificial e Apoio à Decisão, Portugal	European Commission, Belgium Concluded
2019/02/01 - 2019/12/31	Project under the FCT Arrangement/Agreement - Scientific and technological cooperation FCT/INDIA-2017/2019 FCT/4755/3/5/2017/S Researcher Laboratório de Inteligência Artificial e Apoio à Decisão, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Ongoing
2019/01 - 2019/12	INESC TEC - INESC Tecnologia e Ciência 154759UID UID/EEA/50014/2019 Instituto de Engenharia de Sistemas e Computadores, Portugal Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded

Other

Designation	Funders

2021/01/01 - 2021/07/01	Online AUTOML Humane AI: Toward AI Systems That Augment and Empower Humans by Understanding Us, our Society and the World Around Us" (grant \#820437) Researcher	

Outputs

Publications

Book	1	Veloso, B.; Malheiro, B.; Burguillo, J.C.. *Media brokerage: Agent-based SLA negotiation*. 2015. 10.1007/978-3-319-16486-1_56
	2	Veloso, B.; Sousa, L.; Malheiro, B.. *Personalised advertising supported by agents*. 2013. 10.1007/978-3-319-00551-5_57
Book chapter	1	Barbosa, I; Veloso, B; Ribeiro, RP; Gama, J. "An Empirical Study on the Robustness of Local Explanation Methods". 2026. 10.1007/978-3-032-45476-8_13
	2	Amelia Zafra; Bruno Veloso; João Gama. "Early Failure Detection for Air Production Unit in Metro Trains". 2025. 10.1007/978-3-031-74183-8_28
	3	Matías Molina; Bruno Veloso; Carlos Abreu Ferreira; Rita P. Ribeiro; João Gama. "More (Enough) Is Better: Towards Few-Shot Illegal Landfill Waste Segmentation". 2024. 10.3233/FAIA241047
	4	Matías Molina; Rita P. Ribeiro; Bruno Veloso; João Gama. "Super-Resolution Analysis for Landfill Waste Classification". 2024. 10.1007/978-3-031-58547-0_13
	5	Emanuel Sousa Tomé; Rita P. Ribeiro; Bruno Veloso; João Gama. "An Online Data-Driven Predictive Maintenance Approach for Railway Switches". 2023. 10.1007/978-3-031-23633-4_27
	6	Rita P. Ribeiro; Saulo Martiello Mastelini; Narjes Davari; Ehsan Aminian; Bruno Veloso; João Gama. "Online Anomaly Explanation: A Case Study on Predictive Maintenance". 2023. 10.1007/978-3-031-23633-4_25
	7	Narjes Davari; Bruno Veloso; Rita P. Ribeiro; João Gama. "Fault Forecasting Using Data-Driven Modeling: A Case Study for Metro do Porto Data Set". 2023. 10.1007/978-3-031-23633-4_26
	8	Teixeira, S; Veloso, B; Rodrigues, JC; Gama, J. "Ethical and Technological AI Risks Classification: A Human Vs Machine Approach". 2023. 10.1007/978-3-031-23618-1_10

9 Michal Kuk; Szymon Bobek; Bruno Veloso; Lala Rajaoarisoa; Grzegorz J. Nalepa. "Feature Importances as a Tool for Root Cause Analysis in Time-Series Events". 2023.

10.1007/978-3-031-36030-5_33

10 Miguel E. P. Silva; Bruno Veloso; João Gama. "Predictive Maintenance, Adversarial Autoencoders and Explainability". 2023.

10.1007/978-3-031-43430-3_16

11 Alexandre Alcoforado; Thomas Palmeira Ferraz; Rodrigo Gerber; Enzo Bustos; André Seidel Oliveira; Bruno Miguel Veloso; Fabio Levy Siqueira; Anna Helena Reali Costa. "ZeroBERTo: Leveraging Zero-Shot Text Classification by Topic Modeling". 125-136. Springer International Publishing, 2022.

10.1007/978-3-030-98305-5_12

12 Davari, N; Pashami, S; Veloso, B; Nowaczyk, S; Fan, Y; Pereira, PM; Ribeiro, RP; Gama, J. "A Fault Detection Framework Based on LSTM Autoencoder: A Case Study for Volvo Bus Data Set". 2022.

10.1007/978-3-031-01333-1_4

13 Veloso, B; Leal, F; Malheiro, B. "Personalised Combination of Multi-Source Data for User Profiling". 2022.

10.1007/978-981-16-7618-5_60

14 Eduardo Vasco; Bruno Veloso; Benedita Malheiro. "Smart Contracts for the CloudAnchor Platform". 2022.

10.1007/978-3-031-18192-4_34

15 Teixeira, S; Rodrigues, JC; Veloso, B; Gama, J. "Challenges of Data-Driven Decision Models: Implications for Developers and for Public Policy Decision-Makers". 2022.

10.1007/978-981-19-0412-7_7

16 Bruno Veloso; João Gama; Benedita Malheiro. "Classification and Recommendation With Data Streams". 675-684. {IGI, 2021.

10.4018/978-1-7998-3479-3.ch047

17 Leal, F; Veloso, B; Malheiro, B; Burguillo, JC. "Crowdsourced Data Stream Mining for Tourism Recommendation". 2021.

10.1007/978-3-030-72657-7_25

18 João Gama; Bruno Veloso; Ehsan Aminian; Rita P. Ribeiro. "Current Trends in Learning from Data Streams". 183-193. Springer International Publishing, 2021.

10.1007/978-3-030-93620-4_14

19 Fátima Leal; Bruno Veloso; Benedita Malheiro; Horacio González-Vélez. "Trust and Reputation Smart Contracts for Explainable Recommendations". 2020.

10.1007/978-3-030-45688-7_13

20 Bruno Veloso; Benedita Malheiro; Juan Carlos Burguillo; João Gama. "Impact of Trust and Reputation Based Brokerage on the CloudAnchor Platform". 303-314. Springer International Publishing, 2020.

10.1007/978-3-030-49778-1_24

21 Mariana Barros; Bruno Veloso; Pedro M. Pereira; Rita P. Ribeiro; João Gama. "Failure Detection of an Air Production Unit in Operational Context". 2020.

10.1007/978-3-030-66770-2_5

	22	Bruno Veloso; João Gama. "Self Hyper-parameter Tuning for Stream Classification Algorithms". 2020. 10.1007/978-3-030-66770-2_1
	23	Veloso, B; Gama, J; Malheiro, B; Vinagre, J. "Self Hyper-parameter Tuning for Stream Recommendation Algorithms". 2019. 10.1007/978-3-030-14880-5_8
	24	Alves, B; Veloso, B; Malheiro, B. "APASail—An Agent-Based Platform for Autonomous Sailing Research and Competition". 2018. 10.1007/978-3-319-72739-4_3
	25	Veloso, B; Meireles, F; Malheiro, B; Burguillo, JC. "Federated IaaS Resource Brokerage". 2016. 10.4018/978-1-5225-0153-4.ch009
Conference abstract	1	Costa, Vasco; Costa, Diogo; Veloso, Bruno; E.M. Rocha. Corresponding author: Costa, Vasco. "A Parametric Information-Gain Framework for Streaming Fault Prediction in Assembly Lines". Paper presented in *Data-Driven Innovation in the Industry (DII26)*, *Aveiro*, 2026. Accepted
Conference paper	1	António Silva; Bruno Veloso; João Gama. "Anticipating Mechanical Failures: Predictive Models for Scania Truck Components". 2026. 10.1145/3748522.3779805
	2	Aldo Marcelo Paim; João Gama; Bruno Veloso; Fabrício Enembreck; Rita P. Ribeiro. "Efficient Instance Selection in Tree-Based Models for Data Streams Classification". 2025. 10.1145/3672608.3707782
	3	Barbosa, I; Gama, J; Veloso, B. "Interpretable Predictive Maintenance: Combining Anomaly Detection with Quantitative Root Cause Analysis". 2025. 10.1007/978-3-032-05179-0_18
	4	Narjes Davari; Bruno Veloso; Rita Paula Ribeiro; Joao Manuel Portela Da Gama. "Detecting and Explaining Anomalies in the Air Production Unit of a Train". 2024. 10.1145/3605098.3635906
	5	Alcoforado, A; Okamura, LH; Fama, IC; Dias Bueno, BF; Lavado, AM; Ferraz, TP; Veloso, B; Reali Costa, AH. "From Random to Informed Data Selection: A Diversity-Based Approach to Optimize Human Annotation and Few-Shot Learning". 2024.
	6	Snatos, R; Brandão, A; Veloso, B; de Vasconcelos, JB. "Negative Impacts of Human-AI Interaction in Brands: A Data Mining Exploratory Approach". 2024. 10.1007/978-981-97-1552-7_9
	7	Ferreira, RP; Brandão, A; Veloso, B. "Brand Management and Metaverse: A Data Mining Exploratory Approach". 2024. 10.1007/978-981-97-1552-7_31
	8	Joao Gama; Slawomir Nowaczyk; Sepideh Pashami; Rita P. Ribeiro; Grzegorz J. Nalepa; Bruno Veloso. "XAI for Predictive Maintenance". 2023. 10.1145/3580305.3599578

9 Bobek, S; Nowaczyk, S; Gama, J; Pashami, S; Ribeiro, RP; Taghiyarrenani, Z; Veloso, B; et al. "Why Industry 5.0 Needs XAI 2.0?". 2023.

10 Sant'Ana, B; Veloso, B; Gama, J. "PREDICTIVE MAINTENANCE FOR WIND TURBINES". 2022.

11 Teixeira, S; Rodrigues, J; Veloso, B; Gama, J. "An Exploratory Diagnosis of Artificial Intelligence Risks for a Responsible Governance". 2022.

10.1145/3560107.3560298

12 Alcoforado, A; Ferraz, TP; Gerber, R; Bustos, E; Oliveira, AS; Veloso, BM; Siqueira, FL; Reali Costa, AH. "ZeroBERTo: Leveraging Zero-Shot Text Classification by Topic Modeling". 2022.

10.1007/978-3-030-98305-5_12

13 Veloso, B; Caroprese, L; Konig, M; Teixeira, S; Manco, G; Hoos, HH; Gama, J. "Hyper-parameter Optimization for Latent Spaces". 2021.

10.1007/978-3-030-86523-8_16

14 Davari, N; Veloso, B; Ribeiro, RP; Pereira, PM; Gama, J. "Predictive maintenance based on anomaly detection using deep learning for air production unit in the railway industry". 2021.

10.1109/dsaa53316.2021.9564181

15 Pereira, CS; Veloso, B; Durão, N; Moreira, F. "The influence of technological innovations on international business strategy before and during COVID-19 pandemic". 2021.

10.1016/j.procs.2021.11.071

16 Teixeira, S; Londres, G; Veloso, B; Ribeiro, RP; Gama, J. "Improving Smart Waste Collection Using AutoML". 2021.

10.1007/978-3-030-93733-1_20

17 Veloso, B; Martins, C; Espanha, R; Azevedo, R; Gama, J. "Fraud detection using heavy hitters: A case study". 2020.

10.1145/3341105.3373842

18 Bahri, M; Veloso, B; Bifet, A; Gama, J. "AutoML for Stream k-Nearest Neighbors Classification". 2020.

10.1109/bigdata50022.2020.9378396

19 Veloso, B; Malheiro, B; Foss, JD. "Stream recommendation using individual hyper-parameters". 2019.

20 Veloso, B; Leal, F; Malheiro, B; Moreira, F. "Distributed Trust & Reputation Models using Blockchain Technologies for Tourism Crowdsourcing Platforms". 2019.

10.1016/j.procs.2019.11.065

21 Veloso, B; Martins, C; Espanha, R; Azevedo, R; Gama, J. "Detecting bursts of activity from streams". 2019.

22 Veloso, B; Malheiro, B; Burguillo, JC; Foss, JD; Gama, J. "Personalised Dynamic Viewer Profiling for Streamed Data". 2018.

10.1007/978-3-319-77712-2_47

	23	Veloso, B; Gama, J; Malheiro, B. "Self Hyper-Parameter Tuning for Data Streams". 2018. 10.1007/978-3-030-01771-2_16
	24	Cunha, R; Veloso, B; Malheiro, B. "Renegotiation of Electronic Brokerage Contracts". 2017. 10.1007/978-3-319-56538-5_5
	25	Veloso, Bruno; Malheiro, Benedita; Burguillo, JuanCarlos; Foss, JeremyD.. "Personalised fading for stream data". 2017. 10.1145/3019612.3019868
	26	Veloso, B; Malheiro, B; Carlos Burguillo, JC. "CloudAnchor: Agent-Based Brokerage of Federated Cloud Resources". 2016. 10.1007/978-3-319-39324-7_18
	27	Veloso, B; Malheiro, B; Burguillo, JC. "Collaborative Filtering with Semantic Neighbour Discovery". 2016. 10.1007/978-3-319-47955-2_23
Journal article	1	Ricardo Dintén; Marta Zorrilla; Bruno Veloso; João Gama. "Building of transformer-based RUL predictors supported by explainability techniques: Application on real industrial datasets". *Information Fusion* (2026): https://doi.org/10.1016/j.inffus.2025.103892. 10.1016/j.inffus.2025.103892
	2	Luis Toribio; Bruno Veloso; João Gama; Amelia Zafra. "A two-stage framework for early failure detection in predictive maintenance: A case study on metro trains". *Neurocomputing* (2026): https://doi.org/10.1016/j.neucom.2025.132506. 10.1016/j.neucom.2025.132506
	3	Juliana de Freitas Ulisses Machado; Bruno Veloso. "Turning web data into official statistics: Classifying Portuguese retail products with NLP models". *Statistical Journal of the IAOS* (2026): https://doi.org/10.1177/18747655251414407. 10.1177/18747655251414407
	4	Bruno Veloso; Hugo Amorim Neto; Fernando Buarque; João Gama. "Fish swarm parameter self-tuning for data streams". *Data Mining and Knowledge Discovery* (2026): https://doi.org/10.1007/s10618-025-01174-8. 10.1007/s10618-025-01174-8
	5	Araújo, B; Moura, AR; Veloso, B; Azevedo, O; Gago, MF; Erlhagen, W; Bicho, E; Ferreira, F. "A machine learning analysis to identify biomarkers on Holter data of white matter lesions in Fabry disease patients". *INTERNATIONAL JOURNAL OF DATA SCIENCE AND ANALYTICS* (2026): https://www.authenticus.pt/P-01C-36S. 10.1007/s41060-026-01133-6
	6	Pereira, JD; Veloso, B; Gama, J. "Deep neural networks in medical microbiology for bacterial colonies classification". *Scientific Reports* (2026): https://www.authenticus.pt/P-01C-71G. 10.1038/s41598-026-48621-0
	7	Khosravinia, P; Gama, J; Veloso, B. "Causally-Constrained Probabilistic Forecasting for Time-Series Anomaly Detection". *CoRR* (2026): https://www.authenticus.pt/P-01C-QT6. 10.48550/arxiv.2604.17998

8 Veloso, B; Gama, J. "Constrained Hyperparameter Optimization for Streaming Data". *CoRR* (2026): https://www.authenticus.pt/P-01D-J97.

10.48550/arxiv.2608.24712

9 Alexandre Alcoforado; Lucas Okamura; Thomas Ferraz; Israel Campos Fama; Bárbara Dias Bueno; Bruno Miguel Veloso; Anna Helena Reali Costa. "Estratégias de Seleção Informada de Dados para Aprendizado com Dados Escassos e Desbalanceados". *Linguamática* (2025): https://doi.org/10.21814/lm.17.1.451.

10.21814/lm.17.1.451

10 Pereira, AT; Lago, JDS; Santos, YBI; Veloso, BMD; Beltrão, NES. "Prioritisation of Studies In Sustainable Urban Mobility Via Fuzzy-Topsis: A Methodological Approach For Systematic Reviews". *Revista de Gestão Social e Ambiental* (2025): https://www.authenticus.pt/P-018-NRK.

10.24857/rgsa.v19n3-032

11 García-Méndez, S; de Arriba-Pérez, F; Leal, F; Veloso, B; Malheiro, B; Burguillo-Rial, JC. "An explainable machine learning framework for railway predictive maintenance using data streams from the metro operator of Portugal". *SCIENTIFIC REPORTS* (2025): https://www.authenticus.pt/P-019-NS5.

10.1038/s41598-025-08084-1

12 Luciano Caroprese; Francesco Pisani; Bruno Miguel Veloso; Matthias Konig; Giuseppe Manco; Holger Hoos; Joao Gama. "Modelling Concept Drift in Dynamic Data Streams for Recommender Systems". *ACM Transactions on Recommender Systems* (2024): https://doi.org/10.1145/3707693.

10.1145/3707693

13 Ferreira, Rui Pedro; Amélia Maria Pinto da Cunha Brandão; Veloso, Bruno. "The Metaverse and Brand Management: Consumer Perceptions and Brand Equity". *European Journal of Management and Business Economics* (2024):

Under revision

14 Mastelini, SM; Veloso, B; Halford, M; de Carvalho, ACPDF; Gama, J. "SWINN: Efficient nearest neighbor search in sliding windows using graphs". *INFORMATION FUSION* (2024):

10.1016/j.inffus.2023.101979

15 Gama, J; Ribeiro, RP; Mastelini, S; Davari, N; Veloso, B. "From fault detection to anomaly explanation: A case study on predictive maintenance". *JOURNAL OF WEB SEMANTICS* (2024): https://www.authenticus.pt/P-010-E7K.

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Preprint

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Other

Other output

1 Anonymised Phone Call Dataset for Anomaly Detection. 2024. Veloso, B; Martins, C; Espanha, R; Silva, PR; Azevedo, R; Gama, J. https://www.authenticus.pt/P-019-39C.

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4 MetroPT2: A Benchmark dataset for predictive maintenance. 2022. Veloso, B; Gama, J; Ribeiro, RP; Pereira, P.

Activities

Oral presentation

	Presentation title	Event name Host (Event location)
2026/05/05	AutoML for Datastreams	Data Makers Fest 2026 (Porto, Portugal)

Supervision

	Thesis Title Role	Degree Subject (Type) Institution / Organization
2026 - 2026/07/24	Predicting Youth Academy Player Usage in European Football: A Multidimensional Econometric Approach Supervisor	Mestrado em Gestão (Master) Universidade do Porto Faculdade de Economia, Portugal
2026 - 2026/07/24	Evolução do atendimento bancário no Brasil e tendências de transformação digital Supervisor	Mestrado em Gestão Comercial (Master) Universidade do Porto Faculdade de Economia, Portugal
2026 - 2026/07/24	Lakehouse Based Medallion Methodology in Construction Supervision Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2026 - 2026/07/24	Bridging the Semantic Gap in Industrial Procurement: Enhancing Automated Negotiation with Generative AI Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2026 - 2026/07/24	Quantifying Opportunity Cost in Football: A Multilayer Network and Counterfactual approach to Decision Intelligence using StatsBomb Spatial Data Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal

2026 - 2026/07/24	The Leaving Algorithm: Predicting Voluntary Turnover with Machine Learning Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Multimodal Similarity Prediction for Fast-Fashion Products across Collections Supervisor	Mestrado em Gestão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	AI Applications in Planning and Management Control: A Case Study Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Root Cause Analysis of Automotive System Failures: A Predictive Maintenance Approach Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	The Desirability of Workplaces and Wage Determination: an Algorithm-Based Approach Co-supervisor	Mestrado em Economia (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Personalized content in loyalty programs using Generative AI Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	A Data-driven Approach for Excess Classification using Machine Learning Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	A Holistic Approach to IoT Customer Experience and Service Quality in a Telecommunications Company Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Explainable Knowledge Synthesis in Organizations: A Graph RAG Framework for Internal Knowledge Management Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal

2025 - 2025	Generative AI for Personalized Meal Planning: A Recommendation System for Retail Customers Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Analytical Solutions for Performance Tracking in Automated Document Systems Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Identity and Access Management in Risk Governance: Strengthening Compliance and Operational Oversight Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Anticipating Mechanical Failures: Predictive Models for Scania Truck Components Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Analysing Employee Performance Appraisal Comments: Thematic Categorization with Generative AI and Semantic Divergence with SBERT Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Inteligência Artificial e de Negócio na Transformação Comercial Supervisor	Mestrado em Gestão de Operações de Retalho (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	An Agentic AI Framework for Healthcare Claim Denial Analysis Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	The Implementation of VR and AR Technologies as New Business Opportunities for FC Porto Supervisor	Mestrado em Economia da Empresa e da Estratégia (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Deep Learning in Sentiment Analysis: A comparative analysis between traditional models and BERT. Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal

2025 - 2025	Management Quality of Professional Portuguese Football Clubs 2025 - The Football Management (FoMa) Q-score: An application in the Portuguese League Supervisor	Mestrado em Gestão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Underdstanding Colective Prediction Accuracy Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2025 - 2025	Anomaly Detection in the Portuguese Waste Management Network using Dynamic Social Network Analysis Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2024 - 2024	The Jorney of Minimalism: what are the antecedents of minimalism, voluntary frugality and consumerism using Machine Learning? Co-supervisor	Mestrado em Economia e Gestão da Inovação (Master) Universidade do Porto Faculdade de Economia, Portugal
2024 - 2024	Decision Support Systems for Lean Production Planning at JPM Industry Supervisor	Mestrado em Economia (Master) Universidade do Porto Faculdade de Economia, Portugal
2024 - 2024	Optimizing Market Segmentation Strategies: Leveraging Machine Learning on Customer Data Co-supervisor	Mestrado em Gestão (Master) Universidade do Porto Faculdade de Economia, Portugal
2024 - 2024	Customer churn in the music streaming industry: patterns and marketing strategies for customer retention Co-supervisor	Mestrado em Gestão (Master) Universidade do Porto Faculdade de Economia, Portugal
2024 - 2024	Fairness in Regression Machine Learning Data Streams - Banking System Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2024 - 2024	Developing a Sales and Operations model for Eurofins Co-supervisor	Mestrado em Gestão (Master) Universidade do Porto Faculdade de Economia, Portugal
2024 - 2024	A Recommendation Model for Client Retention: Enhancing Retention in the Telecommunications Industry Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de

		Economia, Portugal
2024 - 2024	Unveiling Retail Insights with Generative AI Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2024 - 2024	Fault Detection in Wind Turbines using SCADA data from hydraulic components Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2024 - 2024	A Machine Learning Approach to Forecasting House Prices in the Portuguese Market Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2024 - 2024	Concept Drift Detection Using the Distance to the Decision Boundary Supervisor	(Master) Universiteit Leiden, Netherlands
2023 - 2023	New Challenges in Official Statistics: Big Data Analytics and Multi-level Product Classification of Web Scraped Data Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2023 - 2023	Customers' revenue fluctuation in a Telecommunication company: Data Warehouse Construction and Visualization Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2023 - 2023	Comparative Study of VAE and GAN Based Models for Graph Anomaly Detection Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2023 - 2023	Improve Luxury Online Shopping Experience Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2023 - 2023	The Importance of Business Intelligence on Companies' Performance Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão Universidade do Porto Faculdade de Economia, Portugal

2023 - 2023	Building an MLOps pipeline and recommending an open-source stack for academic learning Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2023 - 2023	Text mining of companies annual reports in PDF format Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2023 - 2023	Instalação e validação de algoritmos no NDtech para deteção de anomalias Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2023 - 2023	An Intelligent Recommendation System for Campaigns in the Retail Business Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2023 - 2023	Explainable Predictive Maintenance: Autoencoders and Rule-based Explainer Supervisor	Mestrado em Ciência de Dados (Master) Universidade Portucalense Infante Dom Henrique, Portugal
2023 - 2023	Predictive Maintenace with LSTM autoencoder and Explainability by SHAP and LIME Supervisor	Mestrado em Ciência de Dados (Master) Universidade Portucalense Infante Dom Henrique, Portugal
2022 - 2022	Digitalize and grow the customer support Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2022 - 2022	Telco Voice and Data Traffic Model Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2021 - 2021	Predicting Audiences Based on Physiological Data and Twitter Activity: A Machine Learning Approach Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal

2021 - 2021	Identification of clients affected by a canceled journey on metro network in Porto Supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2021 - 2021	Hierarchical Time Series Predictions in a Portuguese Telecommunications Company Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2021 - 2021	Fault Detection in Wind Turbines Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal
2021 - 2021	Multi-Level Classification and Sales Forecasting of New Collection Products in Fashion Retail Co-supervisor	Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão (Master) Universidade do Porto Faculdade de Economia, Portugal

Event organisation

	Event name Type of event (Role)	Institution / Organization
2021/10/06 - 2021/10/09	IEEE DSAA 2021 (2021/10/02 - 2021/10/09) Conference (Member of the Organising Committee)	Universidade do Porto, Portugal
2021/07/02 - 2021/07/09	VISion Understanding and Machine intelligence (VISUM 2021), Porto, Portugal. (2021/07/02 - 2021/07/09) Other (Member of the Organising Committee)	Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal
2021 - 2021	Summer School on Data-Driven Predictive Maintenance for Industry 4.0, Porto, Portugal (2021 - 2021) Other (Member of the Organising Committee)	
2020/10/16 - 2020/10/17	20th Conference of the Association of Portuguese of Information Systems (CAPSI 2020) (2020/10/16 - 2020/10/17) Conference (Member of the Organising Committee)	Universidade Portucalense Infante D Henrique Departamento de Ciências Económicas e Empresariais, Portugal

2020/07/02 - 2020/07/10	VISion Understanding and Machine intelligence (VISUM 2020), Porto, Portugal. (2020/07/02 - 2020/07/10) Other (Member of the Organising Committee)
2019/06/04 - 2019/06/12	VISion Understanding and Machine intelligence (VISUM 2019), Porto, Portugal. (2019/06/04 - 2019/06/12) Other (Member of the Organising Committee)

Event participation

	Activity description Type of event	Event name Institution / Organization
2018/07/02 - 2018/07/05	Advanced School on Data Science for Big Data (EAIA 2018), Porto, Portugal. Other	Advanced School on Data Science for Big Data (EAIA 2018)
2016/09/21 - 2016/09/23	Summer School on New Trends in Modelling and Simulation in HPC Systems, cHiPSet High-Performance Modelling and Simulation for Big Data Applications, Bucharest, Romania. Other	Summer School on New Trends in Modelling and Simulation in HPC Systems, cHiPSet High-Performance Modelling and Simulation for Big Data Applications
2015/12/14 - 2015/12/16	Porto Winter School on Graph Analytics and Applications (Graph15), Porto, Portugal. Other	Porto Winter School on Graph Analytics and Applications (Graph15),
2015/07/31 - 2015/08/04	The 11th Reasoning Web Summer School (RW 2015), Berlin, Germany. Other	The 11th Reasoning Web Summer School (RW 2015)
2015/07/06 - 2015/07/10	The 17th European Agent Systems Summer School (EASSS 2015) Other	The 17th European Agent Systems Summer School (EASSS 2015)

Jury of academic degree

	Theme Role	Candidate name (Type of degree) Institution / Organization
2026/07/29	Fraud Detection in Cryptocurrency Transaction Networks (Thesis) Arguer	Adriano Romário Correia Chessa (Master) Universidade do Porto Faculdade de Ciências, Portugal

2026/07/27	Probabilistic Spatiotemporal Downscaling of Climate Data via Conditional Diffusion Models (Thesis) Arguer	Diogo Filipe Gonçalves Cruz (Master) Universidade do Porto Faculdade de Ciências, Portugal
2026/07/27	Subscrição de crédito suportada na categorização de transações em ordem ao risco (Thesis) Arguer	Pedro Diogo Santos Mendes (Master) Universidade do Porto Faculdade de Ciências, Portugal
2026/07/13	Measuring Greenhushing: A Firm-Level Index Based on Environmental Performance and Digital Communication (Thesis) Arguer	Matheus Fernandes Vilhena Campinho (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2026/07/13	Monitorização de Comboios Logísticos com Tecnologia RFID (Thesis) Arguer	Emanuel Santos Silva (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2026/07/13	Predicting Managerial Adjustments to Optimizer-Generated Workforce Schedules (Thesis) Arguer	Francisco José de Sales Pinto (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2026/07/13	Forecasting and Explainable AI for Olive Orchard Irrigation Optimisation (Thesis) Arguer	Beatriz Fernandes Marques (Master) Universidade do Minho, Portugal
2026/05/14	Contribuições para o Desenvolvimento de Ensembles Eficientes em Classificação de Fluxos de Dados (Thesis) Arguer	Aldo Marcelo Paim (PhD) Pontifícia Universidade Católica do Paraná, Brazil
2025/11/25	Conformal Prediction of Reinforcement Learning Agents Short-term Operation (Thesis) Main arguer	Hugo Cardante (Master) Universidade do Porto Faculdade de Ciências, Portugal
2025/11/20	Exploring Machine Learning Strategies for the Identification, Quantification, and Mitigation of Small Disjuncts in Imbalanced Data (Thesis) Main arguer	Hugo Valdrez (Master) Universidade do Porto Faculdade de Ciências, Portugal
2025/11/19	Gestão de rotas e maximização da performance do negócio e colaboradores (Thesis) Main arguer	Marco António Pires Botelho de Sá (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/11/14	Management Quality of Professional Portuguese Football Clubs 2025 - The Football Management (FoMa) Q-score: An application in the Portuguese	David Guilherme Tavares Monteiro Correia de Pinho (Master) Universidade do Porto Faculdade de Economia, Portugal

	League Supervisor	
2025/11/14	A Study on Predictive Maintenance through Remaining Useful Life Prediction (Thesis) Main arguer	Jason Vogensen (Master) Universidade do Porto Faculdade de Ciências, Portugal
2025/11/11	Fertility Preferences and Economic Evolution: Agent-Based Extension to Evolutionary Growth Theory President of the jury	Olga Pavlova (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/30	Deep Learning in Sentiment Analysis: A comparative analysis between traditional models and BERT. Supervisor	Inês Isabel Moreira da Silva (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/25	Ruturas com Stock Téorico no Retalho Alimentar: Diagnóstico e Proposta de Solução Tecnológica (Thesis) Main arguer	Victor Manuel dos Santos Vieira (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/25	The Implementation of VR and AR Technologies as New Business Opportunities for FC Porto Supervisor	Pedro Alexandre Pinto Gomes (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/23	Next Best Action: Optimizing Communication Channels by Customer Segment in the Telecommunications Industry (Thesis) Main arguer	Joana Rita Pereira Calçada (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/16	Estudo e parametrização de uma linha de trituração utilizando algoritmos de Machine Learning (Thesis) Main arguer	Ana Lúcia Dias Pereira (Master) Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal
2025/10/16	Inteligência Artificial Aplicada na Previsão de Mercados de Ações (Thesis) Main arguer	José Nuno Alves Calheiros (Master) Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal
2025/10/15	OPTIMA Health Priority: An Intelligent System to Prioritise Patients in a Context of Healthcare Scarcity , , , Universidade Portucalense, 15/10/2025 (Thesis) Main arguer	Camila Ariana Rodrigues Guerreiro (Master) Universidade Portucalense Infante Dom Henrique, Portugal
2025/10/14	Problema de personalização e otimização de rotas de picking de produtos para clientes em lojas	Leonor Alves Costa (Master) Universidade do Porto Faculdade de Economia, Portugal

(Thesis) Main arguer

2025/10/14	An Agentic AI Framework for Healthcare Claim Denial Analysis Supervisor	Sofia Isabel Martins Campos (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/14	Analysing Employee Performance Appraisal Comments: Thematic Categorization with Generative AI and Semantic Divergence with SBERT Supervisor	Mariana Oliveira Barbosa (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/09	Anticipating Mechanical Failures: Predictive Models for Scania Truck Components Supervisor	António José Guimarães Silva (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/07	Analytical Solutions for Performance Tracking in Automated Document Systems Supervisor	Marta Ribeiro Correia (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/07	Identity and Access Management in Risk Governance: Strengthening Compliance and Operational Oversight Supervisor	Beatriz Mendes Amaral (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/03	A Holistic Approach to IoT Customer Experience and Service Quality in aTelecommunications Company Supervisor	Gustavo Queiróz Conde Lourenço (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/03	Generative AI for Personalized Meal Planning: A Recommendation System for Retail Customers Supervisor	Roberto Nuno da Costa Delgado (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/03	Explainable Knowledge Synthesis in Organizations: A Graph RAG Framework for Internal Knowledge Management Supervisor	Kristin Joelle Sanchez Cabrera (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/10/01	Personalized content in loyalty programs using Generative AI Supervisor	Clara Gonçalves da Costa (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/07/30	SMEs Internationalisation in Digital Healthcare Sector: VirtualCare Case-Study (Thesis) Main arguer	Simão Cortês Loureiro da Silva (Master) Universidade do Porto Faculdade de Economia, Portugal

2025/07/30	Multimodal Similarity Prediction for Fast-Fashion Products across Collections Supervisor	Filipa da Conceição Sá Alves (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/07/30	Strategic Positioning of Smart Energy Solutions: The Case of NOS Communications S.A. (Thesis) Main arguer	Jorge Manuel Pereira Ferreira (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/07/29	AI Applications in Planning and Management Control: A Case Study Supervisor	Marta Alexandra Carvalho Ramalho (Master) Universidade do Porto Faculdade de Economia, Portugal
2025/07/29	Modelação Preditiva baseada em Algoritmos de IA para Previsão de Vendas No Retalho (Thesis) Main arguer	Pedro Alexandre Lopes Silva (Master) Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal
2025/07/17	Integrating N-BEATS with a Mixture-of-Experts Layer for Time Series Forecasting (Thesis) Main arguer	Ricardo André Araújo de Matos (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2025/07/16	GraphSage for Link Prediction (Thesis) Main arguer	Tomás Gomes (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2025/07/15	Identificar e Prevenir o Risco de Fraude na Originação de Crédito a Clientes do Segmento de Negócios (Thesis) Main arguer	Diogo Rocha Caires (Master) Universidade do Porto Faculdade de Ciências, Portugal
2025/06/04	Understanding and predicting user trust in human-robot collaboration: a machine learning approach (Thesis) Main arguer	Daniela Sofia Pereira Arruda (Master) Universidade do Minho, Portugal
2025/01/16	Neural Networks based on Differential Equations for Modelling Real Systems (Thesis) Arguer	Cecília Eduarda Coelho Machado da Cruz Martins (PhD) Universidade do Minho, Portugal
2024/12/06	On the Estimation of Itemset Frequency using Concurrent Count Bloom Filters (Thesis) Main arguer	Tiago André Pereira Oliveira (Master) Universidade do Porto Faculdade de Ciências, Portugal
2024/12/04	Urban City Dynamics Forecasting using Traffic Data (Thesis) Main arguer	Sara Raquel Gonçalves de Sá (Master) Universidade do Porto Faculdade de Ciências, Portugal

2024/11/29	Football passing sequences and networks for goal prediction (Thesis) Main arguer	Diogo Lobo do Souto Ferreira (Master)
2024/11/26	Algoritmo de transshipment lateral híbrido aplicado numa estrutura omnicanal de retalho de moda - uma abordagem machine learning (Thesis) Main arguer	Rafael Filipe Almeida Veiga Neves de Macedo (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/11/13	Fault Detection in Hydraulic Components of Wind Turbines Using SCADA Data and LSTM Autoencoders Supervisor	Paulo Henrique de Lima (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/11/12	A Machine Learning Approach to Forecasting House Prices in the Portuguese Market Supervisor	José Lourenço Vidal Esteves Ferreira (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/11/11	Avaliação da Situação de Data Governance - Um Estudo de Caso da EFACEC (Thesis) Main arguer	Beatriz Marques Casanova (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/11/04	Poder Negocial na Gig Economy - Plataformas de Transporte de Passageiros (Thesis) Main arguer	Marta Carvalho Matos Pereira (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/10/30	Fairness in Regression Machine Learning Data Streams - Banking System Supervisor	Juliano Cavalcante (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/10/30	A Recommendation Model for Client Retention: Enhancing Retention in the Telecommunications Industry Supervisor	Francisco José Almeida Pires (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/10/30	Unveiling Retail Insights with Generative AI Supervisor	Francisco Pinto Magalhães (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/10/28	Customer churn in the music streaming industry: patterns and marketing strategies for customer retention Supervisor	Alexandre Gonçalves Ribeiro (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/10/28	Developing a Sales and Operations model for Eurofins Supervisor	Nuno Leonel Martins Ferreira (Master) Universidade do Porto Faculdade de Economia, Portugal

2024/10/22	Room for Insight: Leveraging AI Models for Customer Segmentation in a Small, Family-Owned Hotel in Porto Supervisor	Tomás Soares Azevedo (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/10/14	Gen AI to optimize sales activities in the tobacco industry President of the jury	Soia Centeno Pérez (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/10/03	Preenchimento automático de JSON com auxílio da API da OpenAI (Thesis) Main arguer	Vera Lúcia Oliveira Pinto (Master) Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal
2024/09/17	Unsupervised learning for fault detection in solar photovoltaic systems Supervisor	Ana Rita Moreira Rodrigues (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/09/06	Implementation and Evaluation of a Business Intelligence Solution: the case of Nextbitt President of the jury	Rita Gonçalves Nunes (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/07/26	Do Not Trust Your Gut: Enhancing Venture Capitalists' Investments Using Data-Driven Decisions (Thesis) Main arguer	António Meireles Vieira (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/07/25	The Jorney of Minimalism: what are the antecedents of minimalism, volun-tary frugality and consumerism using Machine Learning? Supervisor	José Pedro Lima Coelho (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/07/25	A Data Warehouse for Wi-Fi Urban Data Analysis and Identification of Mobility Patterns (Thesis) Main arguer	José Francisco de Azevedo Barata (Master) Universidade do Porto Faculdade de Ciências, Portugal
2024/07/25	Utilização de metodologias XAI para explicar ataques a redes de computadores (Thesis) Main arguer	Martinho Alfredo Martins Sousa (Master)
2024/07/22	Decision Support Systems for Lean Production Planning at JPM Industry Supervisor	Diogo Lousa Ribeiro (Master) Universidade do Porto Faculdade de Economia, Portugal
2024/04/17	Art's Colour Retrieval Dataset & Incremental Learning Colour Palette Generator (Thesis) Main arguer	Teresa Dias do Vale e Amador Cruz (Master) Universidade Portucalense Infante Dom Henrique, Portugal

2023/12/13	Optimizing Process Mining Algorithms: A Hyperparameter Tuning Approach (Thesis) Main arguer	Simão Pedro Costa Cardoso (Master) Universidade do Porto Faculdade de Ciências, Portugal
2023/12/11	A recommender system based on item properties (Thesis) Main arguer	Maria João Lavoura (Master) Universidade do Porto Faculdade de Ciências, Portugal
2023/12/04	Explanatory and predictive analysis of PBI behaviour: a case study from an IT department (Thesis) Main arguer	Nuno Guilherme Baltarejo Pereira Nunes (Master) Universidade do Porto Faculdade de Ciências, Portugal
2023/12/04	Feature Selection Techniques For Enhanced Time-Series Forecasting Based on Explainability (Thesis) Main arguer	Eduardo Marim Rodrigues (Master) Universidade do Porto Faculdade de Ciências, Portugal
2023/11/22	SPROUT a Supervised recommender s ystem for link PRedictiOn in bipar- tite mUltilayer neTworks President of the jury	Victor Fernandes Malheiro (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/11/20	Predicting Adherence to Public Health Measures During COVID-19 Pandemic: A Machine Learning Approach President of the jury	Daniela Couto Botelho Monteiro (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/11/20	Determinants of political participation: A machine learning approach President of the jury	Rita Allen Valente Guedes de Pinho (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/11/20	Data Markets for Collaborative Forecasting in the Energy Sector (Thesis) Main arguer	Tiago Guedes Teixeira (Master) Universidade do Porto Faculdade de Ciências, Portugal
2023/11/15	Detecting Outliers in Accounting Data: a Machine Learning Approach President of the jury	Ana Filipa Vieira dos Santos (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/11/13	An Intelligent Recommendation System for Campaigns in the Retail Business Supervisor	José Manuel Conde Marçal Ferreira Pereira (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/11/09	Deep Neural Networks in Medical Microbiology - Bacterial Colonies Classification Supervisor	José Duarte Pinho Pereira (Master) Universidade do Porto Faculdade de Economia, Portugal

2023/11/06	Backward Scheduling Constructive Heuristics for the Single Machine Weighted Tardiness Scheduling Problem (Thesis) Main arguer	Ana Sofia Madama Martins (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/11/06	Backward Scheduling Constructive Heuristics for the Single Machine Weighted Tardiness Scheduling Problem President of the jury	Ana Sofia Madama Martins (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/10/31	Building an automated MLOps pipeline and recommending an open-source stack to deploy a Machine Learning Application Supervisor	William Inouye Almeida (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/10/30	Improve Luxury Online Shopping Experience Supervisor	Carlos Pedro Cabral de Sousa Pinto (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/10/23	Text mining of companies annual reports in PDF format Supervisor	Svetlana Zamyatina (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/10/23	Unlocking Performance Potential: Power BI Implementation and its Transformative Impact on Proef's Business Intelligence Supervisor	Bárbara Alexandra Ferreira Salgado (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/10/11	Análise de padrões de consumo e desenvolvimento de um sistema de recomendação de produtos (Thesis) Main arguer	João Miguel Leite Martins (Master) Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal
2023/07/28	Customers' revenue fluctuation in a Telecommunication company: Data Warehouse Construction and Visualization Supervisor	Cândido Rafael Toledo Rocha (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/07/28	Promotional Sales Forecasting in a Retail Setting President of the jury	Ana Margarida de Figueiredo Pereira (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/07/23	Promotional Sales Forecasting in a Retail Setting (Thesis) Main arguer	Ana Margarida de Figueiredo Pereira (Master) Universidade do Porto Faculdade de Economia, Portugal

2023/07/21	New Challenges in Official Statistics: Big Data Analytics and Multi-level Product Classification of Web Scraped Data Supervisor	Juliana de Freitas Ulisses Machado (Master) Universidade do Porto Faculdade de Economia, Portugal
2023/07/09	Event Detection on Multivariate Time Series from CNC Machining Equipment using Machine Learning (Thesis) Main arguer	Tiago Daniel Almeida Tavares (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2023/03/01	Self-Supervised Learning Techniques for Monitoring Industrial Spaces (Thesis) Main arguer	Viviana Figueira Magalhães (Master) Universidade do Minho, Portugal
2022/12/14	Spatio-temporal clustering to study vehicle emissions and air quality correlation at Porto (Thesis) Main arguer	Nirbhaya Shaji (Master) Universidade do Porto Faculdade de Ciências, Portugal
2022/11/08	Low-latency Machine learning for network traffic analysis (Thesis) Main arguer	André Levi Ribeiro Tse (Master) Universidade do Porto Faculdade de Ciências, Portugal
2022/11/07	Avaliação de Jogadores e Equipas de Basquetebol usando Machine Learning (Thesis) Main arguer	Luís Rodolfo Nogueira e Silva (Master) Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal
2022/09/14	Knowledge Discovery from data of spare parts transactions in the energy industry Supervisor	Jovelson Aguilar Sabino Junior (Master) Universidade do Porto Faculdade de Economia, Portugal
2022/05/12	Detecting important electrocardiogram characteristics for the diagnosis of Fabry disease via statistics and machine learning techniques (Thesis) Main arguer	Ana Rita Sousa Moura (Master) Universidade do Minho, Portugal
2021/12/20	Técnicas de machine learning aplicadas à marcha para monitorização personalizada da toma da medicação levodopa em doentes com Parkinson (Thesis) Main arguer	Paulo Jorge Martins da Silva (Master) Universidade do Minho - Campus de Azurém, Portugal
2021/11/17	Identification of clients affected by a canceled journey on metro network in Porto Supervisor	Miguel Antunes Pereira (Master) Universidade do Porto Faculdade de Economia, Portugal
2021/11/12	CloudAnchor Smart Contracts (Thesis) Main arguer	Eduardo Henrique Carpinteiro Vasco (Master) Instituto Politécnico do Porto Instituto

		Superior de Engenharia do Porto, Portugal
2021/10/13	Suggesting Human Resources for Project Tasks (Thesis) Main arguer	Ana Sá e Sousa Carneiro da Silva (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2020/10/30	Predicting TV Audiences Based on Physiological Data and Twitter Activity: a machine-learning approach (Thesis) Main arguer	Roberto Oliveira Vita (Master) Universidade do Porto Faculdade de Economia, Portugal
2019/11/28	Information diffusion in social networks (Thesis) Main arguer	Patrícia Coelho Carvalho (Master) Universidade do Porto Faculdade de Economia, Portugal
2019/11/12	The Impact of Big Data on Financial Auditing Profession (Thesis) Main arguer	Tânia Jesus Julião (Master) Universidade do Porto Faculdade de Economia, Portugal
2019/09/30	Predicting TV Audiences Based on Physiological Data and Twitter Activity: a machine-learning approach Supervisor	Sara Manuela Cortinhas Pereira (Master) Universidade do Porto Faculdade de Economia, Portugal
2019/06/28	Recommendation systems using Graph-based Representation (Thesis) Main arguer	Calin-Florin Obrocea (Other) Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal

Association member

	Society Organization	Role
2015/05/25 - Current	Asociación Española para la Inteligencia Artificial(AEPIA), Spain.	Member

Conference scientific committee

	Conference title	Conference host
2021 - 2022	WorldCist'22 - 10th World Conference on Information Systems and Technologies	Budva, Montenegro
2021 - 2022	The Symposium on Intelligent Data Analysis 2022	Rennes, France
2021 - 2022	IJCAI-ECAI 2022, the 31st International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence	Vienna, Austria
2021 - 2022	ACM SIGKDD 2022	Washington DC, US

2021/09/13 - 2021/09/17	The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases ECML PKDD 2021	
2020 - 2021	30th International Joint Conference on Artificial Intelligence	
2020 - 2021	Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI-21)	
2020 - 2021	27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2021)	
2020 - 2021	19th Symposium on Intelligent Data Analysis IDA 2021	
2020/11/09 - 2020/11/11	11th International Conference on the Applications of Digital Information & Web Technologies	
2020/11/09 - 2020/11/11	32th International Conference on Tools with Artificial Intelligence (ICTAI 2020)	
2020/10/16 - 2020/10/17	20th Conference of the Association of Portuguese of Information Systems (CAPSI 2020)	
2020/09/22 - 2020/09/26	ORSUM, the Workshop on Online Recommender Systems and User Modeling, to be held at T14th ACM Conference on Recommender Systems (RecSys 2020)	
2020/09/14 - 2020/09/14	IOTStreams 2020 : ECML/PKDD 2020 Workshop on IoT Streams for Data-Driven Predictive Maintenance	Ghent, Belgium
2020/08/22 - 2020/08/27	26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2020)	
2020/08/24 - 2020/08/26	The 2nd International Conference on Deep Learning, Big Data and Blockchain	
2020/07/11 - 2020/07/17	29th International Joint Conference on Artificial Intelligence and the 17th Pacific Rim International Conference on Artificial Intelligence	
2020/06/16 - 2020/06/18	Second International Conference on Learning and Optimization Algorithms: Theory and Applications (LOPAL 2020)	
2020/06/08 - 2020/06/12	Machine Learning for Data Streams (ECAI 2020 Workshop)	
2020/04/25 - 2020/04/26	6th International Conference on Information Technology Convergence and Services (ITCSS	

	2020)	
2020/04/25 - 2020/04/26	International Conference on Big Data and Blockchain (BDAB 2020)	
2020/04/07 - 2020/04/10	8th World Conference on Information Systems and Technologies	
2020/03/30 - 2020/04/03	ACM Symposium on Applied Computing Data Streams Track	
2019/12/16 - 2019/12/19	18th IEEE International Conference on Machine Learning and Applications	
2019/09/16 - 2019/09/20	European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2019)	
2019/08/26 - 2019/08/28	International Conference on Deep Learning and Machine Learning in Emerging Applications (Deep-ML 2019)	Istanbul, Turkey
2019/08/10 - 2019/08/16	28th International Joint Conference on Artificial Intelligence (IJCAI 2019)	Macau, China
2019/08/04 - 2019/08/08	25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2019)	Anchorage, Alaska
2019/08/04 - 2019/08/08	8th International Workshop on Big Data, IoT Streams and Heterogeneous Source Mining: Algorithms, Systems, Programming Models and Applications (KDD BigMine 2019)	
2018/12/17 - 2018/12/20	IEEE International Conference on Machine Learning and Applications 2018 (IEEE ICMLA 2018)	Orlando-Florida, US
2018/04/23 - 2018/04/23	ORSUM, the Workshop on Online Recommender Systems and User Modeling, to be held at The Web Conference 2018 (WWW 2018)	Lyon, France

Course / Discipline taught

	Academic session	Degree Subject (Type)	Institution / Organization
2021/11/04 - 2021/11/05	One Day Meeting on Statistics and Applied Probability CMAT-SAPOR of the Centre of Mathematics at University of Minho, Guimarães, Portugal		Universidade do Minho, Portugal

Journal scientific committee

	Journal title (ISSN)	Publisher
2021/02/17 - Current	Expert Systems With Applications	Elsevier

2021 - Current	Electronic Commerce Research and Applications	Elsevier
2021 - Current	Information Fusion	Elsevier
2021 - Current	IEEE Transactions on Intelligent Transportation Systems	IEEE
2021 - 2021	Information Fusion	
2020 - 2020	Knowledge and Information Systems (KAIS)	
2020 - 2020	Annals of Telecommunications (ANTE)	
2019 - 2019	Springer Machine Learning journal	
2019 - 2019	Elsevier - Electronic Commerce Research and Applications Journal	
2019 - 2019	IOS - Intelligent Data Analysis Journal	
2018 - 2018	IEEE Transactions on Knowledge and Data Engineering Journal (TKDE)	
2018 - 2018	IEEE Intelligent Transportation Systems Transactions and Magazine	
2017 - 2017	The Computer Science Journal (CSCI)	

Distinctions

Award

2024	Outstanding Paper Award - ”More (Enough) is Better: Towards Few-Shot Illegal Landfill Waste Segmentatio” - Prestigious Applications of Intelligent Systems at 27th European Conference on Artificial Intelligence, ECAI 2024
2021	Best Paper Award - "Improving smart waste collection using AutoML" - 6th Workshop on Data Science for Social Good (SoGood 2021), ECML PKDD 2021

Other distinction

2022	Honorable Mention - "ZeroBERTo - Leveraging Zero-Shot Text Classification by Topic Modeling" - 15th edition of the International Conference on the Computational Processing of Portuguese, PROPOR 2022
2020	Incredibles Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência Center for Research in Advanced Computing Systems, Portugal