

José Manuel Azevedo

Jose Manuel Azevedo is a lecturer in the Mathematics Department, ISCAP (Porto Accounting and Business School)/Polytechnic University of Porto (P.PORTO), Porto, Portugal, since 1998. He obtained his Ph.D. in Education (Mathematics) (UBI), MSc in Mathematics in 1999 (U. Lusíadas), Degree in Mathematics in 1990 by the University of Porto Faculty of Sciences and Diploma of Advanced Studies in Mathematical Methods and Numerical Simulation in Engineering and Applied Sciences in 2005 by the University of Santiago de Compostela Faculty of Mathematics.

He is an integrated member and researcher at CEOS.PP Research Center, since 2017.

He works in the area(s) of Exact Sciences, with emphasis on Applied Mathematics, Education Sciences and Economics and Management, with emphasis on Econometrics. In his professional activities, he has interacted with 34 collaborators in co-authorships of scientific works.

His research interests are Analytics, Mathematics Education, E-Assessment, Financial Mathematics, Financial Time Series, Quantitative Methods, Data Mining, E-Learning and Research Methodologies.

He published several articles in conferences and some journals. He is a member of the program committee of conferences in his areas of research. Besides, he also serves as a reviewer for Journals and conferences. He supervises master students in related areas of his research interests.

He won two awards:

3rd Excellence Awards in e-Learning (2017) - Certificate of Merit for the case study: MatActiva Project - A dynamic mathematical environment to engage students in the learning process.

8th Excellence Award for Innovation in Teaching Methodologies (2023) - Winner for the case study: How can students become junior scientists? The five-year story of the Research Methodologies and Scientific Communication Course.

Identification

Personal identification

Full name

José Manuel Azevedo

Gender

Male

Citation names

Azevedo, Jose M.

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Author identifiers

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Websites

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Knowledge fields

Exact Sciences - Mathematics - Applied Mathematics

Social Sciences - Educational Sciences

Social Sciences - Economics and Business - Econometrics

Languages

Language	Speaking	Reading	Writing	Listening	Peer-review
English	Upper intermediate (B2)	Proficiency (C2)	Upper intermediate (B2)	Proficiency (C2)	Proficiency (C2)
French	Advanced (C1)	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)
Spanish; Castilian	Advanced (C1)	Proficiency (C2)	Advanced (C1)	Proficiency (C2)	Proficiency (C2)

Education

	Degree	Classification
2017 Concluded	Educação (Matemática) (Doutoramento)	Muito Bom
Universidade da Beira Interior, Portugal <i>"Avaliação sumativa em matemática no ensino superior com recurso a questões de escolha-múltipla - uma abordagem utilizando a metodologia investigação-acção" (THESIS/DISSERTATION)</i>		

2005 Concluded	Métodos Matemáticos y Simulación Numérica en Ingeniería y Ciencias Aplicadas (Postgraduate Certificate) Major in Matemática Aplciada Universidade de Santiago de Compostela Facultade de Matemáticas, Spain
1999 Concluded	Matemática (Mestrado) Universidade Lusíada de Lisboa, Portugal <i>"Matemática em Movimento. Utilização das Novas Tecnologias na Abordagem do Tópico "As Derivadas""</i> (THESIS/DISSERTATION)
1990 Concluded	Matemática (Licenciatura) Major in Educação Universidade do Porto Faculdade de Ciências, Portugal

Affiliation

Teaching in Higher Education

	Category Host institution/organization	Employer
2000/12 - Current	Adjunct Teacher (Polytechnic Teacher) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal	Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
1998 - 1999	Assistant (Polytechnic Teacher)	Instituto Politécnico do Porto, Portugal

Other Careers

	Category Host institution/organization	Employer
1990 - 1998	Professor do ensino básico e secundário (Professor do ensino básico e secundário)	Republica Portuguesa Ministério da Educação, Portugal

Positions / Appointments

	Category Host institution/organization	Employer
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2019/01/14 - 2022/02/16	Member of Scientific Council Membro do Conselho Técnico-Científico do ISCAP	Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
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Others

	Category Host institution/organization	Employer
2017/02 - Current	Instituto Politécnico do Porto Centro de Estudos Organizacionais e Sociais, Portugal Instituto Politécnico do Porto, Portugal	Instituto Politécnico do Porto Centro de Estudos Organizacionais e Sociais, Portugal
2016/11 - 2017/01	Centro de Investigação em Comunicação e Educação (CICE) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal	Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2002 - 2004	Colaboradora na área da Matemática do NETPROF Porto Editora, Portugal	Porto Editora, Portugal

Projects

Grant

	Designation	Funders
2018/12 - 2019/07	Projeto Sociedade, Escola e Investigação (SEI)/ DICAS (Desafio, ISCAP, Cerco, Alunos a resolver Sistemas) Projeto SEI	Câmara Municipal do Porto, Portugal
	Co-Principal Investigator (Co-PI) Instituto Politécnico do Porto Centro de Estudos Organizacionais e Sociais, Portugal	Concluded
1999 - 2001	Crescer e Aprender para uma Comunidade Comum 0000000405622773	European Development Fund, Belgium
	Co-Principal Investigator (Co-PI) Instituto Politécnico do Porto, Portugal	Concluded

Contract

	Designation	Funders
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2017/02 - Current	Centro de Estudos Organizacionais e Sociais do Politécnico do Porto UIDB/05422/2020 UIDB/05422/2020 Researcher Instituto Politécnico do Porto Centro de Estudos Organizacionais e Sociais, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Ongoing
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Other

Designation

Funders

2006 - Current	MatActiva ISCAP Researcher
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Outputs

Publications

Book	1	Lopes, Ana Paula; Babo, Lurdes; Azevedo, Jose; Torres, Cristina. <i>MULTIPLE-CHOICE TESTS - A TOOL IN THE ASSESSING KNOWLEDGE</i> . 2010.
	2	Babo, Lurdes; Azevedo, Jose; Torres, Cristina; Lopes, Ana Paula. <i>NEW CHALLENGES IN MATHEMATICS FOR THE EUROPEAN HIGHER EDUCATION</i> . 2010.
Book chapter	1	Ana Azevedo; Jose Manuel Azevedo; Tiago Pereira. "Development of the Online Platform InCharge: A Design Science Research Approach". 2023. 10.1007/978-3-031-17960-0_1
	2	Jose Manuel Azevedo; Patr?cia D. Beites; Ema P. Oliveira. "Evaluating E-Assessment". In <i>A Practical Application Using Statistical Methods</i> . United States, 2018. 10.4018/978-1-5225-5936-8.ch004
	3	Jose Manuel Azevedo; Ema P. Oliveira; Patr?cia D. Beites. "E-Assessment and Multiple-Choice Questions". In <i>A Literature Review</i> . United States, 2018. 10.4018/978-1-5225-5936-8.ch001
	4	Lopes, A. P.; Babo, L.; Azevedo, J.; Torres, C.. "RETHINKING FEEDBACK IN A CONNECTED AGE". edited by Chova, L. G.; Martinez, A. L.; Torres, I. C., 5273-5282. 2018.
	5	Rita Santos; José Azevedo. "Profiling Internet Use of Portuguese Higher Education Students". 46-71. {IGI, 2016. 10.4018/978-1-5225-0039-1.ch003

- Conference paper
- 1 Ana Paula Lopes; Filomena Soares; José Azevedo; Maria Paula Nunes; Vera Oliveira. "DEVELOPING A SEQUENTIAL AND MULTI-LEVELLED QUESTION BANK FOR SMALL CLASS TASKS". 2023.
10.21125/inted.2023.2222
 - 2 Lurdes Babo; Isabel Vieira; Cristina Torres; Vera Oliveira; José Azevedo; Cristina Lopes; Jorge Mendonça. "QUIZ MAKER TOOLS: ANALYSIS AND PEDAGOGICAL APPLICATIONS". 2022.
10.21125/edulearn.2022.2352
 - 3 Azevedo, Ana; Azevedo, José; Hayakawa, Michelle. "Designing and Implementing a Dashboard with Key Performance Indicators for a Higher Education Institution". Paper presented in *3th International Conference on Computer Supported Education (CSEDU 2021)*, 2021., 2021.
10.5220/0010539501650172
 - 4 Azevedo, A.; Oliveira, M.; Barreiras, A.; Azevedo, J.M.; Marcos, G.; Ferreira, H.. "Collecting and analysing learners data in a massive open online course for mathematics". 2019.
 - 5 Ana Paula Lopes; Maria de Lurdes Babo; José Azevedo; Cristina Torres. "RETHINKING FEEDBACK IN A CONNECTED AGE". 2018.
10.21125/inted.2018.1245
 - 6 Azevedo, Jose M.; Azevedo, Ana Isabel. "Is gender an issue in Mathematics courses?". Paper presented in *International Conference on Gender Research, 2018, Gender Research (ICGR 2018)*, 2018.
Published
 - 7 Lurdes Babo; José Azevedo; Cristina Torres; Ana Paula Lopes. "FORMATIVE ASSESSMENT IN HIGHER EDUCATION: DETECTION AND IMPROVEMENT ON LEARNING LEVEL". 2017.
10.21125/edulearn.2017.1187
 - 8 Ana Paula Lopes; Lurdes Babo; José Azevedo; Cristina Torres. "DATA ANALYSIS AND LEARNING ANALYTICS FOR MEASURE EFFECTS OF GAMIFICATION IN A MATH ONLINE PROJECT". 2017.
10.21125/inted.2017.1896
 - 9 Jose Manuel Azevedo; Ema Patricia Oliveira; Patricia Damas Beites. "How Do Mathematics Teachers in Higher Education Look at E-assessment with Multiple-Choice Questions". 2017.
10.5220/0006324801370145
 - 10 Azevedo, J.; Pedrosa, A.. "Using a spreadsheet to support e-assessment". 2017.
 - 11 Azevedo, J.M.; Torres, C.; Lopes, A.P.; Babo, L.. "Learning analytics: A way to monitoring and improving students' learning". 2017.
 - 12 Azevedo, J.M.; Oliveira, E.P.; Beites, P.D.. "How do mathematics teachers in higher education look at E-Assessment with multiple-choice questions". 2017.
 - 13 Jose Manuel Azevedo; Cristina Torres; Ana Paula Lopes; Lurdes Babo. "Learning Analytics: A Way to Monitoring and Improving Students' Learning". 2017.
10.5220/0006390106410648

- 14 Azevedo, José. "e-Assessment in Mathematics Courses with Multiple-choice Questions Tests". 2015.
10.5220/0005452702600266
- 15 Azevedo, J.M.. "e-Assessment in mathematics courses with multiple-choice questions tests". 2015.
- 16 Lopes, Ana Paula; Babo, Lurdes; Azevedo, José; Torres, Cristina. "Innovating mathematics in the european higher education". 2011.
- 17 Lopes, Ana Paula; Babo, Lurdes; Azevedo, José; Torres, Cristina. "Multiple-choice tests - a tool in assessing knowledge". 2010.
- 18 Babo, Lurdes; Azevedo, José; Torres, Cristina; Lopes, Ana Paula. "Moodle and multiple-choice tests". 2010.
- 19 Babo, Lurdes; Azevedo, José; Torres, Cristina; Lopes, Ana Paula. "New challenges in mathematics for the european higher education". 2010.
- 20 Torres, Cristina; Lopes, Ana Paula; Babo, Lurdes; Azevedo, José. "Developing multiple-choice questions in mathematics". 2009.
- 21 Azevedo, José; Torres, Cristina; Lopes, Ana Paula; Babo, Lurdes. "Enhancing math skills with moodle". 2009.
- 22 Babo, Lurdes; Azevedo, Jose; Torres, Crsitina; Lopes, Ana. "Plataformas Interactivas no Ensino/Aprendizagem da Matemática". 2008.
- 23 Lopes, Ana Paula; Babo, Lurdes; Azevedo, José. "Teaching and learning mathematics using moodle". 2008.
- 24 Azevedo, José; Torres, Cristina; Lopes, Ana Paula; Babo, Lurdes. "How to teach Mathematics with Moodle". 2008.
- 25 Torres, C.; Lopes, A.; Babo, M.; Azevedo, J.. "O Projecto Matactiva no ISCAP". 2008.
- 26 Babo, Lurdes; Azevedo, José; Lopes, Ana Paula. "The active mathematics project at ISCAP". 2008.

Conference
poster

- 1 Jose Manuel Azevedo; Cristina Torres; Ana Paula Lopes; Lurdes Babo. "MatActiva, o que dizem os números?". Paper presented in *Fórum Interno P. PORTO*, 2019.
10.13140/rg.2.2.27529.90723
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Edited book

- 1 Azevedo, Jose M.; Azevedo, Ana Isabel; Uhomoibhi, J., ed. *Advancing the Power of Learning Analytics and Big Data in Education*. United States: IGI Global. 2021.
Published · 10.4018/978-1-7998-7103-3 · Editor
- 2 Azevedo, Jose; Azevedo, Ana Isabel; Ossiannilsson, E., ed. *Advancing the Power of Learning Analytics and Big Data in Education*. United States: IGI Global. 2021.
Published · 10.4018/978-1-7998-7103-3 · Editor

Journal article

- 1 Douglas Legramante; Ana Azevedo; Jose Manuel Azevedo. "Integration of the technology acceptance model and the information systems success model in the analysis of Moodle's satisfaction and continuity of use". *The International Journal of Information and Learning Technology* (2023): <https://doi.org/10.1108/IJILT-12-2022-0231>.
10.1108/IJILT-12-2022-0231
- 2 Legramante, Douglas; Azevedo, Ana; Azevedo, Jose Manuel. "Integration of the technology acceptance model and the information systems success model in the analysis of Moodle's satisfaction and continuity of use". *The International Journal of Information and Learning Technology* 40 5 (2023): 467-484. <http://dx.doi.org/10.1108/ijilt-12-2022-0231>.
Published · 10.1108/ijilt-12-2022-0231
- 3 Azevedo, Jose M.. "Learning Analytics: a bibliometric analysis of the literature over the last decade". (2021): <https://doi.org/10.1016/j.ijedro.2021.100084>.
- 4 Gisela Monteiro; José Manuel Azevedo. "FinTechs em Portugal segundo o ponto de vista de várias gerações". *Cadernos de Investigação do Mestrado em Negócio Eletrónico* (2021): https://doi.org/10.56002/ceos.0046_cimne_1_1.
10.56002/ceos.0046_cimne_1_1
- 5 Vieira, Isabel; Lopes, Ana Paula; Lopes, Isabel Cristina; Azevedo, Jose Manuel; Torres, Cristina; Babo, Lurdes. "AN EXPERIMENT WITH ONLINE PRACTICE FOR ASSESSMENT". *INTED Proceedings* (2020): <https://publons.com/publon/32283221/>.
10.21125/INTED.2020.1858
- 6 Jose Manuel Azevedo; Ema P. Oliveira; Patrícia Damas Beites. "Using Learning Analytics to evaluate the quality of multiple-choice questions". *The International Journal of Information and Learning Technology* (2019): <https://doi.org/10.1108/IJILT-02-2019-0023>.
10.1108/IJILT-02-2019-0023
- 7 Uhomoibhi, J.; Azevedo, A.I.R.L.; Azevedo, J.M.M.L.; Ossiannilsson, E.. "Learning analytics in theory and practice: Guest editorial". *International Journal of Information and Learning Technology* 36 4 (2019): 286-287. <http://www.scopus.com/inward/record.url?eid=2-s2.0-85069935200&partnerID=MN8TOARS>.
10.1108/IJILT-08-2019-134
- 8 Jos{\e. "Using Data Mining with Time Series Data in Short-Term Stocks Prediction: A Literature Review". *International Journal of Intelligence Science* 02 04 (2012): 176-180. <https://doi.org/10.4236/ijis.2012.224023>.
Published · 10.4236/ijis.2012.224023
- 9 Torres, Cristina; Lopes, Ana Paula; Babo, Lurdes; Azevedo, Jose. "{Improving Multiple-Choice Questions". *US-China Education Review B* 1 (2011): 1-11.
Published · 10.1212/01.CON.0000394686.28362.cc

- 10 Lopes, Ana Paula; Babo, Lurdes; Azevedo, Jose; Torres, Cristina; Chova, LG; Torres, IC; Martinez, AL. "INNOVATING MATHEMATICS FOR THE EUROPEAN HIGHER EDUCATION". *Inted2011: 5th International Technology, Education and Development Conference* (2011): 1215-1222. http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:000326447701035&KeyUID=WOS:000326447701035.
- 11 Torres, Cristina; Lopes, Ana Paula; Babo, Lurdes; Azevedo, José. "Improving Multiple-Choice Questions". *US-China Education Review B* 1 (2011): 1-11. <http://www.davidpublisher.org/Public/uploads/Contribute/559355e011d56.pdf>. 10.17265/2161-6248/2011.06B.001
- 12 Babo, Lurdes; Azevedo, Jose; Torres, Cristina; Lopes, Ana Paula; Chova, LG; Belenguer, DM; Torres, IC. "MOODLE AND MULTIPLE-CHOICE TESTS". *4th International Technology, Education and Development Conference (Inted 2010)* (2010): 296-303. http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:000318805500042&KeyUID=WOS:000318805500042.

Journal issue	1	Azevedo, Jose M.; Azevedo, Ana Isabel; Uhomoibhi, J.. "Special Issue on Analytics and Big Data". <i>Mathematics</i> (2022): https://www.mdpi.com/journal/mathematics/special_issues/Analytics_Big_Data . Published
	2	Azevedo, Jose; Uhomoibhi, J.; Azevedo, Ana Isabel. "Special Issue: Learning Analytics: Understanding, Optimizing and Impacts". <i>International Journal of Information and Learning Technology</i> 10 (2022): Published • Editor
	3	Uhomoibhi, J.; Azevedo, Ana Isabel; Azevedo, Jose Manuel; Ossiannilsson, E.. "Special Issue: Learning Analytics". <i>International Journal of Information and Learning Technology</i> 36 4 (2019): Published • Invited editor
Thesis / Dissertation	1	Azevedo, José Manuel Monteiro Lopes de. "Avaliação sumativa em matemática no Ensino Superior com recurso a questões de escolha-múltipla: uma abordagem utilizando a metodologia investigação-ação". PhD, 2017. http://hdl.handle.net/10400.6/4493 .

Activities

Supervision

	Thesis Title Role	Degree Subject (Type) Institution / Organization
2021 - 2022	Otimização da informação de produtos online com foco na sua composição e instruções de lavagem: Zippy Online	Negócio Eletrónico (Master) Instituto Politécnico do Porto Instituto

Supervisor

Superior de Contabilidade e
Administração do Porto, Portugal

2020 - 2021	Prestação de Serviços às PME em comércio eletrónico Supervisor	Negócio Eletrónico (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2020 - 2021	Uma integração do Modelo de Aceitação da Tecnologia e do Modelo de Sucesso de Sistemas de Informação na análise da satisfação e continuidade de uso do Moodle Co-supervisor	Assessoria de Administração (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal

Jury of academic degree

	Theme Role	Candidate name (Type of degree) Institution / Organization
2019	Análise da Evasão Escolar do Instituto Federal de Rondônia - Campos Ji-Paraná - utilizando Técnicas de Mineração de Dados (Thesis) Arguer	Jackson Henrique da Silva Bezerra (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal

Association member

	Society Organization	Role
1995/01 - Current	SPM	

Mentoring / Tutoring

	Topic	Student name
2017 - Current	Tutor Erasmus - various students. Since 2017	Various
2018 - 2019	Erasmus Supervision Internship	Iancu Georgiana Andreea
2018 - 2019	Erasmus Supervision Internship	Dinca Ion Claudiu
2017 - 2018	Erasmus Supervision Internship	Cristea Claudia Stefania
2017 - 2018	Erasmus Supervision Internship	Avram Bogdan Nicolae

Other jury / evaluation

	Activity description	Institution / Organization
2017/01 - Current	Membro do Júri da Prova Especifica de Matemática do concurso especial de acesso para maiores de 23 anos à escola do P. Porto. Desde 2017.	Instituto Politécnico do Porto, Portugal

Distinctions

Award

2017	e-Learning Excellence Awards ACPI - Academic Conferences & Publishing International, Reino Unido, United Kingdom
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