Curriculum Vitae

Cristina Maria Dias Pereira Torres

Cristina Torres holds a PhD in Applied Mathematics from the University of Porto. She is an Assistant Professor at the Faculty of Business, Technical University of Porto, in the scientific area of Mathematics. Her teaching activities span Mathematics, Statistics, quantitative data analysis, and forecasting methods. She also has experience teaching international students within the Erasmus programme.
She is an integrated researcher at the Centre for Social and Organisational Studies (CEOS.PP). She has participated in research and other projects, both as a coordinator and as a team member. She has authored and co-authored scientific publications, presented her research at national and international conferences, served on scientific and organising committees for international conferences, and contributed to the academic community as a peer reviewer and a member of a scientific journal's editorial board.
Her research interests include applied statistics, data analysis, count time series analysis, educational technologies in higher education, and learning analytics.

Identification

Personal identification

Full name
Cristina Maria Dias Pereira Torres

Citation names

Torres, C.
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https://www.ceos.iscap.ipp.pt/researchers/cristina-torres?lang=pt (Professional)

Knowledge fields

Exact Sciences - Mathematics - Applied Mathematics
Exact Sciences - Mathematics - Statistics and Probability
Exact Sciences - Mathematics

Languages

Language	Speaking	Reading	Writing	Listening	Peer-review
English	Advanced (C1)	Proficiency (C2)	Advanced (C1)	Advanced (C1)	Advanced (C1)
French	Elementary (A2)	Elementary (A2)	Beginner (A1)	Elementary (A2)	

Education

	Degree	Classification
2016/07/26 Concluded	Applied Mathematics (Doctor) Universidade do Porto Faculdade de Ciências, Portugal *"Contributions to the analysis of multivariate count data" (THESIS/DISSERTATION)*	
2005/05/19 Concluded	Mathematics/Education (Master) Universidade Portucalense Infante Dom Henrique, Portugal *"Introdução à Combinatória" (THESIS/DISSERTATION)*	
1996 Concluded	Applied Mathematics - Computer Science Branch (Bachelor) Universidade do Porto Faculdade de Ciências, Portugal	

Affiliation

Science

	Category Host institution/organization	Employer
2017 - 2026/08/31	Researcher (Research)	Instituto Politécnico do Porto Centro de Estudos Organizacionais e Sociais, Portugal

Teaching in Higher Education

	Category Host institution/organization	Employer
2026/09/01 - Current	Assistant Professor (University Teacher)	Universidade Técnica do Porto, Portugal
2016/07/27 - 2026/08/31	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
1997/03/10 - 2016/07/26	Assistant (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

Projects

Contract

	Designation	Funders
2023/11/01 - 2026/10/31	ENCARE - Enhancing Capacities of UAS staff for more successful EU funded Research 2023-1-DE01-KA220-HED-000153936 Researcher Instituto Politécnico do Porto Centro de Estudos Organizacionais e Sociais, Portugal	Erasmus Plus, Belgium Ongoing
2019/01/01 - 2019/12/31	Center for Research and Development in Mathematics and Applications UID/MAT/04106/2019 Universidade de Aveiro, Portugal Universidade de Aveiro Centro de Investigação e Desenvolvimento em Matemática e Aplicações, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded
2018/12 - 2019/05	Projeto Sociedade, Escola e Investigação (SEI)/ DICAS (Desafio, ISCAP, Cerco, Alunos a resolver Sistemas) Projeto SEI Researcher P.PORTO / ISCAP / CEOS.PP, Portugal, Portugal	C. M. Porto, Portugal Concluded

2014 - 2015/07	MatActiva – Divulgação de Experiências de Inovação Didática em Matemática com Recurso às Tecnologias FCT/8213/18/9/2014/S Researcher	Fundação para a Ciência e a Tecnologia, Portugal Concluded

Outputs

Publications

Book chapter

1. Isabel Vieira; Lurdes Babo; Cristina Torres. "Understanding Female Employment Rates in the EU Labour Market". 2026.
   10.1007/978-3-032-09683-8_37
2. Paulino Silva; Isabel Vieira; Lurdes Babo; Cristina Torres. "Integrating Digital Tools to Enhance Learning Experiences in Higher Education". 2025.
   10.1007/978-3-031-78155-1_38
3. Torres, Cristina; Babo, Lurdes; Vieira, Isabel; Rodrigues, Maria Antónia; Carvalho, Amélia. "Tourism and Hospitality in Portugal: Perspectives of Marketing Students and Graduates". In *Advances in Tourism, Technology and Systems*, 105-118. Springer Nature Singapore, 2025.
   10.1007/978-981-96-5400-0_9
4. Diego Balona; Catarina Borges; Rita Nunes; Cristina Lopes; Isabel Vieira; Lurdes Babo; Cristina Torres. "Management of hospital resources and hospitalization in EU27: A factor analysis". Universidade Lusíada Editora, 2023.
   Published · https://doi.org/10.34628/DKYT-7F17
5. Andreia Martins; Ana Sofia Alves; Cristina Lopes; Isabel Vieira; Cristina Torres; Lurdes Babo. "The influence of digital content creators on purchase". Portugal: Universidade Lusíada Editora, 2023.
   Published · https://doi.org/10.34628/myvx-gg92
6. Cristina Torres; Isabel Vieira; Cristina Lopes; Rui Monteiro; Carla Ferreira; Inês Bem-Haja. "Beneficiaries of Social Disability Pension in Small Municipalities in the Northern Region of Portugal: Application of Cluster Analysis in the Identification of Potential Causes". In *Innovations in Industrial Engineering II*, 209-219. Springer International Publishing, 2022.
   Published · 10.1007/978-3-031-09360-9_18
7. Silva, Maria Eduarda; Silva, Isabel; Torres, Cristina. "Modelling Overdispersion with Integer-Valued Moving Average Processes". In *Stochastic Models, Statistics and Their Applications*, 291-303. Springer International Publishing, 2019.
   Published · 10.1007/978-3-030-28665-1_21
8. Torres, C.. "MatActiva Project – A mathematical dynamic environment to engage students in the learning process.". In *The e-Learning Excellence Awards 2017: An Anthology of Case Histories*. United Kingdom: Academic Conferences and Publishing International Limited, 2017.
   Published

	9	Torres, C.. "MatActiva - Divulgação de Experiências de Inovação Didática em Matemática com Recurso às Tecnologias". In *In Experiências de Inovação Didática no Ensino Superior, 283-298. Gabinete do Secretário de Estado do Ensino Superior.*. Lisboa, Portugal: Ministério da Educação e Ciência, 2015.

Conference abstract	1	Lopes, C.; Torres, C.; Adair, K.; Ventelä, A.; Rath, K.; da Silva, M.; Carvalho, P.. "Identifying key skills for enhancing development, writing, and management of European Funded Projects: a multivariate analysis approach". Paper presented in *the IX Workshop on Computational Data Analysis and Numerical*, *Évora*, 2024. Published
	2	Cristina Lopes; Isabel Vieira; Cristina Torres; Lurdes Babo; Eduardo Sá Silva. "Modelos de Previsão de Falência de empresas portuguesas do ramo mobiliário". Paper presented in *CEOS Researchers¿ Day - DICEOS23*, 2023. Published • https://doi.org/10.56002/ceos.0084b
	3	Torres, Cristina; Vieira, Isabel; Lopes, Cristina; Monteiro; Ferreira; Bem-Haja. "Identification of potential causes in the number of beneficiaries of social disability pension in small municipalities in the northern region of Portugal". Paper presented in *XXX Meeting of the Portuguese Association for Classification and Data Analysis (JOCLAD 2023)*, *Viana do Castelo*, 2023. Published

Conference paper	1	Suavinha, Bárbara; Alves, Maria; Magalhães, Marta; Babo, Lurdes; Torres, Cristina; Vieira, Isabel; Lopes, Isabel Cristina. "Depopulation of Portugal's interior". Paper presented in *XXXI Meeting of the Portuguese Association for Classification and Data Analysis (JOCLAD 2024)*, *Leiria*, 2024. Published
	2	Lurdes Babo; Isabel Vieira; Cristina Torres; Vera Oliveira; José Azevedo; Cristina Lopes; Jorge Mendonça. "QUIZ MAKER TOOLS: ANALYSIS AND PEDAGOGICAL APPLICATIONS". Paper presented in *EDULEARN22*, 2022. Published • 10.21125/edulearn.2022.2352
	3	Vieira, Isabel; Lopes, Ana Paula; Lopes, Isabel Cristina; Azevedo, José; Torres, Cristina; Babo, Lurdes; Paula Lopes, Ana; Lopes, Cristina; Azevedo, Jose Manuel. "AN EXPERIMENT WITH ONLINE PRACTICE FOR ASSESSMENT". Paper presented in *14th International Technology, Education and Development Conference*, *Valencia*, 2020. 10.21125/inted.2020.1858
	4	Babo, Lurdes; Azevedo, José; Torres, Cristina; Lopes, Ana Paula; Camilo, Alice; Melo, Fernando; Garcia, Helena. "HOW TWO DIFFERENT LEVEL INSTITUTIONS CAN COOPERATE FOR THE SAME PURPOSE: TO MOTIVATE STUDENTS TO LEARN MATHEMATICS". *Valencia*, 2020. Published • 10.21125/inted.2020.1849
	5	Jorge, M.; Cristina, T.; Lurdes, B.; Mendonça, Jorge; Torres, Cristina; Babo, Lurdes. "Preparing undergraduate students for life". 2020.
	6	Lopes, Ana Paula; Soares, Filomena; Teles de Oliveira, Cristina; Rodrigues, Ana Maria; Torres, Cristina; Lopes, Isabel Cristina. "CREATING INTERACTIVE LEARNING MATERIALS TO PROMOTE STATISTICAL SKILLS IN HIGHER EDUCATION". 2020. 10.21125/inted.2020.1155

7 Babo, Lurdes; Mendonça, Jorge; Torres, Cristina. "STUDENTS' PERCEPTIONS ABOUT CONTINUOUS NON-TRADITIONAL ASSESSMENT IN HIGHER EDUCATION". Paper presented in *13th International Technology, Education and Development Conference*, *Valencia*, 2019.

Published • 10.21125/inted.2019.1801

8 Torres, Cristina; Babo, Lurdes; Mendonça, Jorge; Cristina Torres; Lurdes Babo; Jorge Mendonça. "Engaging students to learn forecasting methods". 2018.

10.21125/edulearn.2018.2511

9 Lopes, Ana Paula; babo, lurdes; Azevedo, Jose Manuel; Torres, Cristina; Ana Paula Lopes; Maria de Lurdes Babo; José Azevedo; Cristina Torres. "Rethinking feedback in a connected age". 2018.

10.21125/inted.2018.1245

10 Jorge Mendonça; Gabriela Gonçalves; Lurdes Babo; Cristina Torres. "A LINEAR REGRESSION AND CORRELATION EXCEL TASK WITH ENGINEERING STUDENTS". 2017.

10.21125/edulearn.2017.1712

11 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

12 Lopes, Ana Paula; babo, lurdes; Azevedo, Jose Manuel; Torres, Cristina; 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

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 Lopes, Ana Paula; Babo, Lurdes; Torres, Cristina. "THE IMPACT OF AN ONLINE MATHEMATICS EDUCATION PROJECT (MATACTIVA) ON HIGHER EDUCATION STUDENTS". Paper presented in *9th International Technology, Education and Development Conference (INTED2015)*, 2015.

Published

15 Lopes, Ana Paula; Babo, Lurdes; Azevedo, Jose; Torres, Cristina. "INNOVATING MATHEMATICS FOR THE EUROPEAN HIGHER EDUCATION". Paper presented in *5th International Technology, Education and Development Conference (INTED2011)*, *Valencia*, 2011.

Published

16 Lopes, Ana Paula; Babo, Lurdes; Azevedo, José; Torres, Cristina. "Innovating mathematics in the european higher education". 2011.

17 Babo, Lurdes; Azevedo, Jose; Torres, Cristina; Lopes, Ana Paula. "NEW CHALLENGES IN MATHEMATICS FOR THE EUROPEAN HIGHER EDUCATION". Paper presented in *3rd International Conference of Education, Research and Innovation (ICERI 2010)*, *Madrid*, 2010.

Published

18 Azevedo, Jose Manuel; Lopes, Ana Paula; babo, lurdes; Torres, Cristina; Azevedo, Jose. "Multiple-choice tests: a tool in assessing knowledge". *Valencia*, 2010.

Published

	19	babo, lurdes; Azevedo, Jose Manuel; Torres, Cristina; Lopes, Ana Paula; Azevedo, Jose. "Moodle and multiple-choice tests". Paper presented in *International Technology, Education and Development Conference*, 2010.
	20	Torres, Cristina; Babo, Lurdes; Azevedo, Jose Manuel; Lopes, Ana Paula. "Matemática activa - moodle". 2009.
	21	Torres, Cristina; Lopes, Ana Paula; Azevedo, Jose Manuel; babo, lurdes. "Developing multiple - choice questions in mathematics". 2009.
	22	Azevedo, J.M.; Torres, C.; Lopes, A.P.; Babo, L.. "Enhancing Math Skills With Moodle". Paper presented in *2nd International Conference of Education, Research and Innovation (ICERI2009)*, *Seville*, 2009. Published
	23	Azevedo, José; Torres, Cristina; Lopes, Ana Paula; Babo, Lurdes. "Enhancing math skills with moodle". 2009.
	24	Lopes, Ana; Babo, Lurdes; Azevedo, José; Torres, Cristina. "Using Moodle as a Tool for Learning and Developing Math Skills". Paper presented in *ICMS 2009 – Internacional Conference of Mathematical Sciences*, 2009.
	25	Torres, Cristina; Azevedo, Jose Manuel; Lopes, Ana Paula; babo, lurdes. "How to teach mathematics with MOODLE". 2008.
	26	Torres, C.; Lopes, A.; Babo, M.; Azevedo, J.; Torres, Cristina; Lopes, Ana Paula; Azevedo, Jose Manuel; babo, lurdes. "O Projecto Matactiva no ISCAP". 2008.
Conference poster	1	Marques, A; Pinheiro, A; Matos, MC; Torres, Cristina; Cristina Lopes; Vieira, Maria Isabel Coutinho. "The Relationship of the Human Capital Index with the Level of Education and the Adult Survival Rate". Paper presented in *JOCLAD2021 - XXVIII Meeting of the Portuguese Association for Classification and Data Analysis*, 2021.
	2	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
Journal article	1	Lopes, Cristina; Torres, Cristina; Adair, Kaisa; Ventelä, Arina; Rath, Kathrin; Silva, Manuel da; Carvalho, Paula; Currie, Ruth. "Identifying learner profiles for pre-award research funding activities in Universities of Applied Sciences: a multivariate approach". *Research in Statistics* 4 1 (2026): https://doi.org/10.1080/27684520.2026.2718222. 10.1080/27684520.2026.2718222
	2	Torres, C.. "Inference for bivariate integer-valued moving average models based on binomial thinning operation". *Journal of Applied Statistics* (2020): http://dx.doi.org/10.1080/02664763.2020.1747411. 10.1080/02664763.2020.1747411

	3	Torres, C.; Lopes, A.P.; Babo, L.; Azevedo, J.. "Improving Multiple-Choice Questions.". *US-China Education Review* 1 1 (2011): 1-11. http://www.davidpublisher.org/index.php/Home/Article/index?id=11709.html. Published
	4	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
	5	Torres, Cristina; Lopes, Ana Paula; Babo, Lurdes; Azevedo, José. "Improving Multiple-Choice Questions". *US-China Education Review* (2011): https://publons.com/wos-op/publon/14446906/. 10.17265/2161-6248/2011.06B.001
Manual	1	Soares, Filomena; Lopes, Ana Paula; Ferreira, Maria Hermínia; Amorim, Marta; Babo, Lurdes; Azevedo, José; Vieira, Isabel; et al. *Matemática 100 STRESS	Introdução ao Cálculo Diferencial*. Portugal. 2015.
Thesis / Dissertation	1	Torres, C.. "Contributions to the analysis of multivariate count data". PhD, 2016. https://repositorio-aberto.up.pt/handle/10216/84452.

Activities

Supervision

	Thesis Title Role	Degree Subject (Type) Institution / Organization
2024 - 2025/04/07	O Endividamento dos Municípios em Portugal: Uma Análise a Fatores Multidimensionais e Contextuais. Co-supervisor	Mestrado de Gestão das Organizações - ramo Gestão Pública (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2023 - 2024/11/21	Controlo Interno em Micro e Pequenas Empresas Co-supervisor	Auditoria (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2024 - 2024/11/04	Controlo Interno nas PME Co-supervisor	Auditoria (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2023 - 2023/11/30	Igualdade de género e a sua importância nas organizações Supervisor	Gestão das Organizações - ramo Gestão de Empresas (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal

2023 - 2023/11/30	E-commerce como fator crítico de sustentabilidade de negócios: Expectativas dos consumidores vs. Empresas Supervisor	Gestão das Organizações - ramo Gestão de Empresas (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2023 - 2023/11/23	Inflação, Taxas de Juro e o Crédito à Habitação – um inquérito à perceção do seu impacto Co-supervisor	Auditoria (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2023 - 2023/11/20	Fatores que influenciam a independência do auditor e podem conduzir à prática de fraude Co-supervisor	Auditoria (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2023 - 2023/11/20	Auditoria e a imagem do auditor Co-supervisor	Auditoria (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2023 - 2023/11/15	Independência do auditor e deteção de fraude no contexto regulatório atual Co-supervisor	Auditoria (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal

Committee member

	Activity description Role	Institution / Organization
2016 - Current	ISCAP's Assistant to the Supervisory and Monitoring Committee (CSA) for the specially adapted tests designed to assess the ability of people over 23 to attend higher education. Member	Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2022/02/17 - 2025/01/15	Technical-scientific council Member	Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2023/05/17 - 2024/12	Member of the Self-Assessment Committee for the Bachelor's Degree in Marketing Member	Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal
2011 - 2015	ISCAP's representative on the Supervisory and Monitoring Commission (CSA) for the specially adapted tests designed to assess the ability of people over 23 to attend higher education.	Instituto Politécnico do Porto, Portugal

Member

Journal scientific committee

	Journal title (ISSN)	Publisher
2026/01 - Current	International Journal of Intercultural Information Management (1750-0036)	Inderscience Publishers

Distinctions

Award

2017 — Certificate of Merit awarded in "The 3rd e-Learning Excellence Awards"

ACPI - Academic Conferences & Publishing International, United Kingdom, United Kingdom

Other distinction

2023 — Best Paper Award in the International Conference on Technology Management and Operations (2023) attributed to the article "Management of Hospital Resources and Hospitalization in EU27: a Factor Analysis"