

CV Date	18/09/2025
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Part A. PERSONAL INFORMATION

First Name	Paula		
Family Name	Terán Viadero		
Sex	Female	Date of Birth	24/08/1989
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CURRICULUM NARRATIVE SUMMARY

Paula Terán-Viadero is an Assistant Professor at Complutense University of Madrid, with a PhD in Operations Research focused on Cutting and Packing problems. She received her PhD in June 2024 from the PhD program Mathematical Engineering, Statistics and Operations Research at UCM, where she also obtained her Master's degree in Mathematical Engineering in 2019. Her specialization in Operations Research began in 2019 at the Faculty of Mathematical Sciences (UCM), where she developed optimization models for a company in the hospitality sector. Prior to her academic career, she worked in the private sector, applying integer linear optimization models to solve real-world problems.

1. RESEARCH, KNOWLEDGE TRANSFER AND EXCHANGE ACTIVITIES

1.1. PROJECTS AND CONTRACTS FOR RESEARCH AND KNOWLEDGE TRANSFER AND EXCHANGE

1.1.1. Projects

- Project.** Matemáticas explicables para soluciones interdisciplinarias de ciencia de datos. Javier Martínez Moguerza. (Universidad Rey Juan Carlos). 01/09/2022-31/08/2026. 85.910 €.
- Project.** Subvención para formación de doctores en empresas. "Doctorado Industrial" nacional. Paula Terán Viadero. (Paneles Ligeros SL). From 12/12/2023. 75.294,4 €.

1.1.2. Contracts

- Contract.** Planificación anual de turnos de personal en el sector de la restauración Mapal Software S.L.. Vitoriano Villanueva. 18/12/2017-18/02/2019.

1.2. RESULTS AND DISSEMINATION OF RESEARCH AND KNOWLEDGE TRANSFER AND EXCHANGE ACTIVITIES

1.2.1. Research activity

AC: corresponding author. (n^o x / n^o y): position / total authors. If applicable, indicate the number of citations

- Scientific paper.** Paula Terán-Viadero; Antonio Alonso-Ayuso; F. Javier Martín-Campo. 2024. Mathematical optimisation in the honeycomb cardboard industry: A model for the two-dimensional variable-sized cutting stock problem. European Journal of Operational Research. Elsevier.
- Scientific paper.** (1/3) Paula Terán-Viadero (AC); Antonio Alonso-Ayuso; F. Javier Martín-Campo. 2023. A 2-dimensional guillotine cutting stock problem with variable-sized stock for the honeycomb cardboard industry. International Journal of Production Research. Taylor & Francis Online. 62-1-2, pp.483-500. ISSN 0020-7543.

- 3 **Congress.** Paula Terán-Viadero; Antonio Alonso-Ayuso; F. Javier Martín-Campo. Optimisation approaches for solving the two-dimensional cutting stock problem with variable-sized stock. VII Congreso de Jóvenes Investigadores de la RSME. REAL SOCIEDAD MATEMATICA ESPAÑOLA. 2025. Spain.
- 4 **Congress.** The 2D cutting stock problem with variable-sized stock. 4th Spanish Young Statisticians and Operational Researchers Meeting. SEIO. 2024. Spain.
- 5 **Congress.** Paula Terán-Viadero; Antonio Alonso-Ayuso; F. Javier Martín-Campo. Mathematical programming for the 2D cutting stock problem with variable sized stock applied to the honeycomb cardboard industry. 20th ESICUP Meeting. EURO, The association of European Operational Research Societies. 2024. Portugal.
- 6 **Congress.** Paula Terán-Viadero; Antonio Alonso-Ayuso; F. Javier Martín-Campo. The 2-dimensional cutting stock problem with variable-sized stock. XXIII Congresso da Associação Portuguesa de Investigação Operacional 2024. APDIO. 2024. Portugal.
- 7 **Congress.** Paula Terán-Viadero; Antonio Alonso-Ayuso; F. Javier Martín-Campo. El problema de corte 2D con stock de tamaño variable. Workshop IMEIO-DecData: Decisión, Optimización y Ciencia de Datos. Universidad Complutense de Madrid. 2023. Spain.
- 8 **Congress.** F. Javier Martín-Campo; Paula Terán-Viadero; Antonio Alonso-Ayuso. El problema de corte guillotinado 2D con stock de dimensiones variables: Un modelo de optimización lineal entera mixta. XL Congreso Nacional de Estadística e Investigación Operativa. SEIO. 2023. Spain.
- 9 **Congress.** Paula Terán-Viadero; Antonio Alonso-Ayuso; F. Javier Martín-Campo. Problemas de corte 2D en el sector del cartón nido de abeja. XL Congreso Nacional de Estadística e Investigación Operativa. SEIO. 2023. Spain.
- 10 **Congress.** F. Javier Martín-Campo; Antonio Alonso-Ayuso; Paula Terán-Viadero. Models for the 2D cutting stock problem in the honey-comb cardboard industry. 23rd Conference of the International Federation of Operational Research Societies. IFORS. 2023. Chile.
- 11 **Congress.** Paula Terán-Viadero; Antonio Alonso-Ayuso; F. Javier Martín-Campo. Models for the two-dimensional variable-sized cutting stock problem in the honeycomb cardboard industry. ECCO XXXVI Conference 2023. EURO, The association of European Operational Research Societies. 2023. Greece.
- 12 **Congress.** Paula; Antonio; F. Javier. Mixed Integer Linear Optimisation models for the 2D Cutting Stock Problem with Variable Sized stock. 19th ESICUP Meeting. EURO, The association of European Operational Research Societies. 2023. Italy.
- 13 **Congress.** Paula Terán-Viadero; Antonio Alonso-Ayuso; F. Javier Martín-Campo. El problema de corte guillotinado 2-dimensional con stock de tamaño variable. Workshop IMEIO-DecData: Decisión, Optimización y Ciencia de Datos. Universidad Complutense de Madrid. 2022.
- 14 **Congress.** Paula Terán-Viadero; Carlos Gamallo. Data Science in Action: Mapal Software. 2nd Spanish Young Statisticians and Operational Researchers Meeting. SEIO Sociedad Estadística e Investigación Operativa. 2019. Spain.

1.2.2. Transfer and exchange of knowledge and professional activity

Professional activity

- 1 **Assistant professor:** Complutense University of Madrid. 2024- actual. Full time.
- 2 **Head of I+D:** Paneles Ligeros SL. 12/12/2023.

Narrative explanation of the contribution

Funciones desempeñadas

Responsible for the R&D department, in charge of developing optimisation models to improve decision-making processes in factory logistics, mainly for cutting processes, seeking to minimise material consumption. Work developed under the umbrella of the Ministry of Science, Innovation and Universities industrial doctorate aid.

3 Optimization Team Coordinator: Mapal Group. 01/01/2021.

Narrative explanation of the contribution

Funciones desempeñadas

In charge of the Optimisation Department, responsible for supervising the work of a team of 5 highly qualified people, all with a Master's degree in Mathematical Engineering. The main objective was to develop optimisation models for scheduling problems in the hospitality sector.

4 Operational Researcher: Mapal Group. 01/03/2019.

5 Personal Técnico de Apoyo a la Investigación: Universidad Complutense de Madrid. 01/04/2018.

6 Finance Assistant: Hartley SAS Ltd, Bristol, Reino Unido. 01/03/2015.

1.3. STAYS AT UNIVERSITIES AND RESEARCH CENTRES

1.3.1. Stays

1 Stay: Universidade do Porto. (Portugal). 01/09/2024-31/12/2024.

2 Stay: Universidade do Porto. (Portugal). 01/09/2023-31/12/2023.

2. TEACHING ACTIVITY

3. LEADERSHIP

3.2. SUPERVISION OF DOCTORAL THESES AND MASTER'S THESES

1 Algoritmos metaheurísticos para la resolución del problema de corte 2-dimensional con stock de dimensiones variables.. Universidad Complutense de Madrid. 28/02/2024. 9.7.

2 Master's Thesis: Algoritmos basados en Búsqueda de Entorno Variable para el problema de corte 1- dimensional en la industria del cartón nido de abeja.. Universidad Complutense de Madrid. 18/09/2023. 9.0.