

CV Date	24/01/2023
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Part A. PERSONAL INFORMATION

First Name	Maria		
Family Name	Merino Maestre		
Sex	Not Specified	Date of Birth	
ID number Social Security, Passport			
URL Web	https://sites.google.com/view/maria-merino-maestre/en		
Email Address			
Open Researcher and Contributor ID (ORCID)	0000-0002-4947-2784		

A.1. Current position

Job Title	Profesorado Agregado		
Starting date	2011		
Institution	UPV/EHU		
Department / Centre	Matemáticas / Facultad de Ciencia y Tecnología		
Country		Phone Number	
Keywords	Linear programming; Models of determinist nets and stochastics		

A.3. Education

Degree/Master/PhD	University / Country	Year
Doctor por la Universidad del País Vasco	Universidad del País Vasco	2005
Licenciada en Ciencias. Especialidad: Matemáticas	Universidad del País Vasco	1999

Part B. CV SUMMARY

Part C. RELEVANT ACCOMPLISHMENTS

C.1. Most important publications in national or international peer-reviewed journals, books and conferences

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

- Scientific paper.** Luis Martínez; María Merino; Juan Manuel Montoya. 2022. An integer programming model for obtaining cyclic quasi-difference matrices Operations Research Perspectives. Springer. 10-100260, pp.100260.
- Scientific paper.** Imanol; María; J.A.2022. A Mathematical Analysis of EDAs with Distance-based Exponential Models Memetic Computing. Springer. 14, pp.305-334.
- Scientific paper.** José Domingo; Maria; Ilargi. 2022. Children's drawing of plant life in the time of COVID-19: an analysis of the changes related to the content and colour over a two-year period.Children. 9-6, pp.862.
- Scientific paper.** Gorka Kobeaga; Maria Merino; Jose A. Lozano. 2021. On solving cycle problems with Branch-and-Cut: extending shrinking and exact subcycle elimination separation algorithms Annals of Operations Research. Springer.
- Scientific paper.** Ilargi Zaballa; Maria Merino; José Domingo Villarroel. 2021. Children's Pictorial Expression of Plant Life and Its Connection with School-Based Greenness Sustainability.

- 6 **Scientific paper.** J. D. Villarroel; Maria Merino; Alvaro Anton. 2021. Young Children's Spontaneous Use Of Isometric And Non-Isometric Symmetries: A Study Regarding Their Unprompted Depictions of Plant Life *Journal of Biological Education*. Taylor and Francis Online.
- 7 **Scientific paper.** Iker Montes-Bageneta; Urtzi Akesolo; Sara Lopez; Maria Merino; Eneritz Anakabe; Sonia Arrasate. 2020. Pollutants in Organic Chemistry and Medicinal Chemistry Education Laboratory. *Experimental and Machine Learning Studies Current Topics in Medicinal Chemistry*.
- 8 **Scientific paper.** Jose Domingo Villarroel; Maria Merino; Alvaro Anton. 2019. Symmetrical motifs in young children's drawings: A study on their representations of plant life *Symmetry*.
- 9 **Scientific paper.** Unai Aldasoro; Maria Merino; Gloria Perez. 2019. Time consistent expected mean-variance in multistage stochastic quadratic optimization: a model and a matheuristic *Annals of Operations Research*.
- 10 **Scientific paper.** Gorka Kobeaga Urriolabeitia; Maria Merino Maestre; Jose A. Lozano Alonso. 2018. An efficient evolutionary algorithm for the orienteering problem. *Computers and Operations Research*.
- 11 **Scientific paper.** Unai Aldasoro; Laureano Escudero; Maria Merino; Gloria Perez. 2017. A parallel Branch-and-Fix Coordination based matheuristic algorithm for solving large sized multistage stochastic mixed 0–1 problems *European Journal of Operational Research*.
- 12 **Scientific paper.** Julene Escudero; Maria Merino. 2017. Some measures in risk management and two-stage stochastic optimization *BEIO*.
- 13 **Scientific paper.** Julene Escudero; Maria Merino. 2016. A brief introduction to two-stage Stochastic Optimization *BEIO*.
- 14 **Scientific paper.** Laureano Escudero; Araceli Garin; Maria Merino; Gloria Perez. 2016. On time stochastic dominance induced by mixed integer-linear recourse in multistage stochastic programs *European Journal of Operational Research*.
- 15 **Scientific paper.** Unai Aldasoro; Laureano Escudero; Maria Merino; Juan F. Monge; Gloria Perez. 2015. On parallelization of a stochastic dynamic programming algorithm for solving large-scale mixed 0–1 problems under uncertainty *TOP*.
- 16 **Scientific paper.** Unai Aldasoro; Laureano Escudero; Maria Merino; Gloria Perez. 2013. An algorithmic framework for solving large-scale multistage stochastic mixed 0–1 problems with nonsymmetric scenario trees. Part II: Parallelization *Computers and Operations Research*.
- 17 **Scientific paper.** Unai Aldasoro; Laureano Escudero; Maria Merino; Gloria Perez. 2012. An algorithmic framework for solving large-scale multistage stochastic mixed 0–1 problems with nonsymmetric scenario trees. *Computers and Operations Research*. 39, pp.1133-1144.
- 18 **Scientific paper.** Unai Aldasoro; Laureano Escudero; Maria Merino; Gloria Perez. 2012. Erratum: An algorithmic framework for solving large-scale multistage stochastic mixed 0–1 problems with nonsymmetric scenario trees. *Computers and Operations Research*. 39, pp.2266-2266.
- 19 **Scientific paper.** Laureano Escudero; Araceli Garin; Maria Merino; Gloria Perez. 2010. An exact algorithm for solving large-scale two-stage stochastic mixed-integer problems: Some theoretical and experimental aspects *European Journal of Operational Research*.
- 20 **Scientific paper.** Laureano Escudero; Araceli Garin; Maria Merino; Gloria Perez. 2010. On BFC-MSMIP strategies for scenario cluster partitioning, and twin node family branching selection and bounding for multistage stochastic mixed integer programming *Computers and Operations Research*.
- 21 **Scientific paper.** Laureano Escudero; Araceli Garin; Maria Merino; Gloria Perez. 2009. A general algorithm for solving two-stage stochastic mixed 0–1 first-stage problems *Computers and Operations Research*.
- 22 **Scientific paper.** Laureano Escudero; Araceli Garin; Maria Merino; Gloria Perez. 2009. BFC-MSMIP: an exact branch-and-fix coordination approach for solving multistage stochastic mixed 0–1 problems *TOP*.
- 23 **Scientific paper.** Laureano Escudero; Araceli Garin; Maria Merino; Gloria Perez. 2007. The value of the stochastic solution in multistage problems *TOP*.
- 24 **Scientific paper.** Maria Merino; Fernando Vadillo. 2007. Mathematical finance with MATLAB® *Revista de métodos cuantitativos para la economía y la empresa*.

- 25 Scientific paper.** Laureano Escudero; Araceli Garin; Maria Merino; Gloria Perez. 2006. A two-stage stochastic integer programming approach as a mixture of Branch-and-Fix Coordination and Benders Decomposition schemes *Annals of Operations Research*.
- 26 Scientific paper.** Laureano Escudero; Araceli Garin; Maria Merino; Gloria Perez. 2006. On multistage Stochastic Integer Programming for incorporating logical constraints in asset and liability management under uncertainty *Computational Management Science*.
- 27 Book chapter.** Imanol Unanue; Maria Merino; Jose A. Lozano. 2019. A mathematical analysis of EDAs with distance-based exponential models *GECCO 2019 Companion - Proceedings of the 2019 Genetic and Evolutionary Computation Conference Companion*.
- 28 Book chapter.** Leire Escajedo; Maria Merino. 2015. Connecting learning processes and strategies towards the reduction of food poverty: a collaborative experience between the University of the Basque Country and social inclusion NGOs *Envisioning a future without food waste and food poverty*.
- 29 Book chapter.** Laureano Escudero; Araceli Garin; Maria Merino; Gloria Perez. 2011. On solving strong multistage nonsymmetric stochastic mixed 0-1 problems *Operations Research Proceedings 2011*.

C.2. Conferences and meetings

- 1 Maria Merino. Matematikariok eta Iraunkortasuna. Aplikazio batzuk Ikerkuntza Operatiboaren eskutik. *Matematikari Euskaldunen V. Topaketa*. 2022. Spain.
- 2 Maria Merino; Unai Aldasoro; Gloria Perez. Time consistent stochastic dominance risk strategies induced by multistage quadratic mixed-integer stochastic optimization. *European Conference on Combinatorial Optimization ECCO XXXV - CO 2022*. 2022.
- 3 Unai Aldasoro; Maria Merino. Coupled and Decoupled Stochastic Dominance within multistage optimization.. *XXXIX CONGRESO NACIONAL DE ESTADÍSTICA E INVESTIGACIÓN OPERATIVA*. 2022.
- 4 Imanol Unanue; Maria Merino; Jose A Lozano. Mathematical Modeling and Analysis of Combinatorial Optimization. *XIX CONFERENCIA DE LA ASOCIACIÓN ESPAÑOLA PARA LA INTELIGENCIA ARTIFICIAL CAEPIA 20/21*. 2021. Spain.
- 5 Maria Merino; Unai Aldasoro. Coupled and Decoupled Stochastic Dominance Induced by Multistage Quadratic Optimization. *31st European Conference on Operational Research*. 2021. Greece.
- 6 Imanol Unanue; Maria Merino; Jose A Lozano. A General Framework Based on Walsh Decomposition for Combinatorial Optimization Problems. *IEEE Congress on Evolutionary Computation*. 2021. Poland.
- 7 Imanol Gago; Unai Aldasoro; Josu Ceberio; Maria Merino. A two stage stochastic optimization model for ambulance location-allocation under coverage equity and response time efficiency.. *34th Conference of the European Chapter on Combinatorial Optimization*. 2021. Spain.
- 8 Unai Aldasoro; Larraitx Aranburu; Isabel Eguia; Laureano Escudero; Araceli Garin; Imanol Gago; Gorka Kobeaga; Maria Merino; Gloria Perez; Celeste Pizarro; Aitziber Unzueta. Stochastic network optimization for intelligent transport and logistics. *VII Jornadas de Investigación de la Facultad de Ciencia y Tecnología*. 2020. Spain.
- 9 Unai Aldasoro; Maria Merino; Gloria Perez. Expected Mean-Variance Risk In Multistage Quadratic Stochastic Optimization. *XV International Conference on Stochastic Programming ICSP XV*. 2019. Norway.
- 10 Unai Aldasoro; Maria Merino; Gloria Perez. A New Multicriteria Time Consistent Risk Strategy For Quadratic Stochastic Optimization. *XV International Conference on Stochastic Programming ICSP XV*. 2019. Norway.

C.3. Research projects and contracts

- 1 **Project.** Grupo de investigación en Estadística y Optimización (EOPT). IT-1494-22. Aitziber Unzueta (IP1) and M.A. Garin (IP2). (Basque Government). 01/01/2022-31/12/2025. 34.000 €.
- 2 **Project.** Grupo de Investigación en Estadística y Optimización (Éopt). M. A. Garin (IP1) and Maria Merino (IP2). (Universidad del País Vasco). 01/01/2021-31/12/2023. 12.320 €.

- 3 Project.** Optimización de redes estocásticas para transporte y logística inteligente, PID2019-104933GBI00. Maria Merino (IP1) and Gloria Pérez (IP2). (Ministerio de Ciencia e Innovación). 01/06/2020-31/05/2023. 55.660 €.
- 4 Project.** Grupo de investigación consolidado en Estadística y Optimización, GIU17/11. Maria Araceli Garin (IP1) and Maria Merino (IP2). (Universidad del País Vasco). 21/12/2017-20/12/2020. 20.350 €.
- 5 Project.** Análisis Multivariante, Optimización y Técnicas de Imputación PPGI17/19. Araceli Garin. (Universidad del País Vasco). 01/01/2017-31/12/2018. 12.000 €.
- 6 Project.** Algoritmos Matheurísticos y computación de alto rendimiento para la optimización de redes estocásticas. Gloria Perez Sainz de Rozas. (Ministerio de economía y competitividad). 01/01/2016-31/12/2018. 33.000 €.
- 7 Project.** Computación en paralelo y algoritmos de descomposición en optimización estocástica mixta entera con aplicaciones, MTM2012-31514.. Gloria Perez Sainz de Rozas. (Ministerio de economía y competitividad). 01/01/2013-31/12/2015. 62.010 €.
- 8 Project.** Grupo de Investigación en Estadística y Optimización. IT-567-13. Maria Araceli Garin Martin. (Gobierno Vasco). 01/01/2013-31/12/2015. 50.000 €.
- 9 Project.** Métodos avanzados para la visualización del subsuelo. Ignacio Murga Urquiza. (Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo). 01/01/2012-31/12/2015. 132.000 €.
- 10 Project.** Grupo de Investigación en Estadística y Optimización. IT-347-10. Araceli Garin. (Gobierno Vasco). 01/01/2010-31/12/2012. 78.500 €.
- 11 Contract.** Heuristic Optimization for Emergency Healthcare Unai Aldasoro Marcellan. 15/12/2022-15/12/2026.
- 12 Contract.** Heuristic Optimization for Emergency Healthcare Gloria Perez Sainz de Rozas. 01/11/2019-01/01/2021. 37.500 €.
- 13 Contract.** Optimización del reaprovisionamiento en una gran cadena de tiendas Mikel Lezaun Iturralde. 28/04/2008-29/12/2009. 85.000 €.