

Part A. PERSONAL INFORMATION

CVA date	05/12/2020
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Name	VÍCTOR BLANCO IZQUIERDO		
ID number	74679669A	Age	40
Researcher numbers	Researcher ID	E-7839-2010	
	Orcid code	0000-0002-7762-6461	

A.1. Current position

University	Universidad de Granada		
Department	Insitute of Mathematics / Dpt. Quantitative Methods for Economics and Business		
Address and Country	Granada, Andalucía, España		
Phone number	+34 958249637 +34 625583592	E-mail	yblanco@ugr.es
Current position	Profesor Titular de Universidad	From	2018
UNESCO	1207.11; 1201.06; 1201.13; 1207.04; 5302.02; 1209.04		
Keywords	Decision Making, Locational Analysis, Network Design, Mathematical Optimization, Data Science		

A.2. Education

Degree/PhD	University	Year
Degree in Mathematics	Universidad de Granada (UGR)	2009
PhD Stats & Operations Research	Universidad de Sevilla (US)	2003

A.3. JCR articles, h Index, thesis supervised

40 papers in JCR indexed Journals.

H-index: 14 (Google Scholar), 9 (Scopus). H10: 16 (Google Scholar), Citations: 473 (Google Scholar), 286 (Scopus).

2 Sexenios Investigación: 2006-2011, 2012-2017

1 Supervised Thesis, 2 Current PhD Students.

Part B. CV SUMMARY

Víctor Blanco obtained the degree in Mathematics at the Universidad de Granada (UGR) in 2003, and a PhD in Operations Research at the Universidad de Sevilla (US). He enjoyed a predoc grant (2005-2009) from the Spanish Ministry of Science and Technology, for the development of his PhD thesis, supervised by Prof. Justo Puerto. He got a postdoc contract "Juan de la Cierva" (MINECO) at the Department of Algebra at the UGR (2009-2001). Since 2001 he is professor in the Dep. Quantitative Methods for Economics and Business at the UGR, first as assistant professor, and since 2018 as an associate professor. His main topics of interests in which his scientific trajectory is being developed are Mathematical Optimization, both from a theoretical side (geometric and algorithmic insights of sophisticated Discrete Linear and Non Linear models) and from an applied perspective, mainly focused on the management of logistics systems, data science and the integration of both through optimization tools.

During his academic career, he has been involved in different projects and contracts with industry (AXA, Metrolab, Ghenova, Agricultural Cooperative Os Irmandiños) and more than 17 research projects funded (in competitive calls) by different publics organisms, programs and thematic networks. He has participated as part of the research team in 8

national and 5 regional I+D research projects and as principal investigator in one local (UGR) research project. Dr. Blanco is from 2017 the principal investigator of the PAIDI (Junta de Andalucía) research group “Quantitative Techniques for Economics and Business (<http://sej534.ugr.es>).

He has (co)authored 40 papers published in JCR-indexed journals, and 5 more which are actually under review in high impact JCR journals, with more than 20 different coauthors (<https://arxiv.org/search/math?searchtype=author&query=Blanco%2C+V>). He has done several research stays at different Internationally Recognized Research Centers, as the Institute for Mathematics and its Applications (UMN, Minneapolis, US), Sauder Business School (UBC, Vancouver, Canada), the University of California (Davis, US) and the University of Edinburgh (Scotland, UK). He has presented communications in more than 70 national and international scientific workshops and conferences in OR and Management Science (IFORS, ISMP, EURO, CLAIO, INFORMS, SIAM Optimization, ...). He was also a plenary speaker at the VI Iberoamerican congress on Operation Research and Management Science (IOCA 2017) and has participated as lecturer and coordinator in different doc-course and seminars. He uses to review papers to different high impact journals as European Journal of Operations Research, Discrete, Electronic Journal of Combinatorics, TOP, Transportation Research, Engineering Optimization, Networks and Spatial Economics, Journal of Global Optimization, Computers & OR, and I am usual reviewer of scientific projects for the Spanish Research Agency, the Uruguayan CSIC and Chilean FONCyT. During 2016-2019 he was part of the Academic Board (of Operations Research) in the Spanish Society of Stats and OR. He was Chair of the Organizing Committee of the 1st Spanish Young Stats and OR Meeting and he is Chair of the Scientific Committee of the forthcoming Spanish Conference of Statistics and OR (Granada, June 2021). He is also regular member of different scientific committees in national and international conferences (SEIO, ALIO-EURO, ...).

Dr. Blanco is member of the Institute of Mathematics at the UGR and collaborator of IMUS. He has supervised a Phd Thesis in 2014 with got the maximum qualification at the Universidad de Sevilla, on continuous facility location problems and SDP optimization, and is currently supervising two PhD students on topics related with Location and Machine Learning. He has also supervised more than 15 Master Thesis students in Mathematics and Economics. More information: www.ugr.es/~vblanco.

Part C. RELEVANT MERITS

C.1. Selected Publications

1. Blanco, Víctor, Puerto, Justo (2020). Covering problems with polyellipsoids: A location analysis perspective. *European Journal of Operational Research* 289 (1), 44-58.
Impact Factor JCR 2019: 4.213, OR & MANAGEMENT SCIENCE 14/83 (Q1).
2. Arana, Manuel; Blanco, Víctor; Fernández, Elena. 2020. On the fuzzy maximal covering location problem. *European Journal of OR* 283(2), 692-705.
Impact Factor JCR 2019: 4.213, OR & MANAGEMENT SCIENCE 14/83 (Q1).
3. Blanco, Víctor, Japón, Alberto and Puerto, Justo. 2020. Optimal arrangements of hyperplanes for SVM-based multiclass classification. *Advances in Data Analysis and Classification*.
Impact Factor JCR 2018: 1.603, STATISTICS & PROBABILITY 21/123 (Q1).
4. Blanco, Víctor. 2019. Ordered p-median problems with neighborhoods. *Computational Optimization and Applications* 73 (2), 603-645.
Impact Factor JCR 2019: 1.743, APPLIED MATHEMATICS 60/261 (Q1).
5. Arana, Manuel and Blanco, Víctor. 2019. On a fully fuzzy framework for minimax mixed integer linear programming. *Computers & Industrial Engineering* 128 (1), 170-179

Impact Factor JCR 2019: 4.135, INTERDISCIPLINARY APPLICATIONS COMPUTER SCIENCE 18/109 (Q1).

6. Blanco, Víctor; Marín, Alfredo. 2019. Upgrading nodes in tree-shaped hub location. *Computers & Operations Research*. 102, pp. 75-90.
Impact Factor JCR 2019: 3.428, OR & MANAGEMENT SCIENCE 21/83 (Q1).
7. Blanco, Víctor; Pérez-Sánchez, José María. 2018. On the aggregation of experts' information in bonus-malus systems. *Astin Bulletin*. 48, pp. 311-337.
Impact Factor JCR 2019: 1.236, STATISTICS & PROBABILITY 56/124 (Q2).
8. Blanco, Víctor; Puerto, Justo; Ponce, Diego. 2017. Continuous location under the effect of refraction. *Mathematical Programming, Series B*. 161, pp. 33-72.
Impact Factor JCR 2017: 2.665, OR & MANAGEMENT SCIENCE 18/84 (Q1).
9. Blanco, Víctor; Fernandez, Elena; Puerto, Justo. 2017. Minimum Spanning Trees with Neighborhoods: Mathematical Programming formulations and solution methods. *European Journal of Operational Research*. 262, pp. 863-878.
Impact Factor JCR 2017: 3.428, OR & MANAGEMENT SCIENCE 12/84 (Q1).
10. Blanco, Víctor; Puerto, Justo; ElHaj BenAli, Safae. 2016. Continuous multifacility ordered median location problems. *European Journal of Operational Research*. 250, pp. 56-64.
Impact Factor JCR 2016 3.428, OR & MANAGEMENT SCIENCE 12/83 (Q1).

C.2. Selected Research Projects:

1. Nuevos Desafíos Matemáticos en Problemas Logísticos y de Transporte Integrado sobre Redes Complejas: Diseño y Optimización. Ministerio De Economía y Competitividad. Puerto-Albandoz, Justo (Universidad de Sevilla). 2016-2020. 170126 EUR. Investigador.
2. Complex networks meet data science (NetMeetData). Fundación BBVA 2018. Big Data. IP: Justo Puerto. 2020-2022. 100000€.
3. Nuevos resultados sobre los problemas de diseño y optimización en redes complejas: Aplicaciones al diseño de ciudades inteligentes. US-1256951. Proyectos I+D+i FEDER Andalucía 2014-2020 (modalidad Frontera). 2020-2022. 80000 Euros.
4. Retos de la optimización combinatoria en los nuevos modelos de redes complejas y ciencia de datos (PAIDI 2020: Proyectos I+D+i). Ref. P18-FR-1422. IPs: Justo Puerto and AM Rodríguez Chía. 2020-2023. 109750€.
5. Data Science: from mathematical modelling to mathematical optimization (PAIDI 2020: Proyectos I+D+i). Ref. P18-FR-2369. IPs: Emilio Carrizosa and Rafael Blanquero.. 2020-2023. 109750€.
6. CONEXIONES ENTRE LA ESTADÍSTICA, LA INVESTIGACIÓN OPERATIVA Y LAS CIENCIAS ACTUARIALES: MODELOS ALTERNATIVOS EN ECONOMÍA. Universidad de Granada. Blanco, Víctor (Universidad de Granada). 2016-2017. Principal Investigador.
7. Desafíos Matemáticos en el Diseño y Optimización de Redes Complejas: Aplicaciones. 2014-2016. 81663 EUR. Investigador/a.
8. Desafíos Matemáticos en el Diseño y Optimización de Redes Complejas: Aplicaciones.. Ministerio De Economía Y Competitividad. Puerto-Albandoz, Justo (Universidad de Sevilla). 2014-2017. 98812,5 EUR. Investigador/a.
9. DISEÑO OPTIMO EN REDES LOGISTICAS. Puerto-Albandoz, Justo (Universidad de Sevilla). 2011-2013. Investigador/a.
10. Nuevos Desafíos de la Matemática Combinatoria: Enfoques no Estándares en Optimización Discreta y Álgebra Computacional. Aplicaciones. CONSEJERÍA DE ECONOMÍA, INNOVACIÓN, CIENCIA Y EMPLEO. Puerto-Albandoz, Justo (Universidad de Sevilla). 2011-2015. 254752 EUR. Investigador/a.

C.3. Contracts

1. ARIADNA: AUTOMATIC ROUTING IN ACCOMMODATION DECKS BY NUMERICAL ANALYSIS. 2015-2016. 113000 EUR.
2. Intelligent System for Automatic Routing in Accomodation Deks by Numerical Analysis. 30000 Euros. 03/2019-12/2019.
3. OPTIMAL METRO LINE AND OPERATION (METROLAB S.A.). 2013-2013. 6600 EUR.
4. Desarrollo de algoritmo temporal ponderado. Bullejos-Lorenzo, Manuel (Universidad de Granada). 2010-2011. 44250 EUR.

C.4. PhD and Master Thesis supervisión

- Connections and applications of semidefinite programming, problem of moments and location theory. (Safae ElHaj BenAli, 2014).
- *In Progress*: Alberto Japón Saez. New challenges in Supervised Classification through Mathematical Programming; and Ricardo Gázquez. Advances in Continuous Covering Location Problems: Linear and NonLinear Integer Programming Approaches
- Supervision of more than 15 Master thesis students in different topics: Game Theory, Facility and Hub Location, Data Science, Network Design.

C.5. Participation in Scientific and Organizing Committees

- Elected member Operations Research Academic Board of the Spanish Society of Stats and OR (SEIO). 2016-2019.
- Chair of the Organizing Committee of the 1st Spanish Young Stats and OR Meeting (SYSORM 2017). <http://congresos.ugr.es/sysorm17>
- Chair of the Scientific Committee of the forthcoming Spanish Conference of Statistics and OR (SEIO). www.seio2021.com.
- Part of Scientific Committees of several editions of SEIO conferences: SEIO2018, SEIO2019.
- Member of the Program Committee of the Joint ALIO/EURO International Conference on Applied Combinatorial Optimization 2021. <https://alioeuro2021.c>
- Elected member of the Academic board of the Master in Mathematics at the Universidad de Granada, 2017-.
- Internship coordinator of the Master of Mathematics, Universidad de Granada. 2019-.
- Coordinator of the transfer team “Mathematical Optimization for Logistic and Industrial Systems” under the Transfer Unit of the Andalusian Institute of Mathematics (IAMAT), one of the 25 selected teams. 2020-2022.
- Principal Investigator of Research Group SEJ-534 (PAIDI – JUNTA DE ANDALUCÍA) “Quantitative Techniques in Economics and Business”. <http://sej534.ugr.es>. 2017-.
- Member of the Organizing Committee of “Workshop on Locational Analysis and Related Problems”. Granada, 10-12 May 2012.
- Academic coordinator del European Study Group with Industry 108 with project Production scheduling optimization (Airbus Defence and Space). 17-20 February 2015.

C.6. Plenary Talks

- VI Iberoamerican congress on Operation Research and Management Science, Barranquilla, Colombia 2017: “*Locational Uncertainty in some Combinatorial Optimization Problems*”.
- XX Encuentro Nacional de Estudiantes de Matemáticas. Granada, 2019. “*UN VIAJE DESDE LA LOCALIZACIÓN AL ANÁLISIS DE DATOS*”.