

CV dated January 22, 2023,

PERSONAL DATA: María Josefa Cánovas Cánovas;

PROFESSIONAL INFORMATION: Degree in Mathematical Sciences from the University of Murcia in 1991, PhD from the Miguel Hernández University of Elche in 2000 (supervisor Marco A. López Cerdá).

Full Professor of Statistics and Operational Research at the Miguel Hernández University of Elche from 2012; previously: Teaching Assistant (1991-1996), Lecturer (1996-2002) and Associate Professor (2002-2012).

4 sexennial periods of research (1997-2002, 2003-2008, 2009-2014, 2015,2020).

6 five-year periods of teaching with positive evaluation (from 1992 to 2021).

Fields of interest: parametric optimization, variational analysis, semi-infinite programming, linear programming, convex analysis, Lipschitz type properties.

PUBLICATIONS, SUMMARY: 58 articles distributed as: 24 of them are Q1 articles in JCR journals (year of publication or last available), specifically: 8 in SIAM J. Optim., 5 in Math. Program., 3 in J. Math. Anal. Appl., 2 in J. Optim. Theory Appl., 2 in Optimization, 1 in Math. Oper. Res., 1 in Eur. J. Oper. Res., 1 in Set-Valued Var. Anal., and 1 in Comput. Optim. Appl.; while 16 are Q2 articles, 9 are Q3, 6 are Q4 and 3 are not in JCR.

#### SELECTED 10 PUBLICATIONS:

- M. J. Cánovas, M. A. López, J. Parra, F. J. Toledo, Distance to ill-posedness and the consistency value of linear semi-infinite inequality systems, Math. Program. 103A: 95-126, 2005
- M.J. Cánovas, A.L. Dontchev, M.A. López, J. Parra, Metric regularity of semi-infinite constraint systems, Math. Program. 104B: 329-346, 2005
- M.J. Cánovas, D. Klatte, M.A. López, J. Parra, Metric regularity in convex semi-infinite optimization under canonical perturbations, SIAM J.Optim. 18: 717-732, 2007
- M.J. Cánovas, M.A. López, B.S. Mordukhovich, J. Parra, Variational Analysis in semi-infinite and infinite programming, I: Stability of linear inequality systems of feasible solutions, SIAM J. Optim. 20: 1504-1526, 2009
- M.J. Cánovas, A.Y. Kruger, M.A. López, J. Parra, M.A. Thera, Calmness modulus of linear semi-infinite programs, SIAM J. Optim. 24: 29-48, 2014
- M.J. Cánovas, R. Henrion, M.A. López, J. Parra, Outer limit of subdifferentials and calmness moduli in linear and nonlinear programming, J. Optim. Theory Appl. 169:925-952, 2016
- M.J. Cánovas, A. Hantoute, J. Parra, F.J. Toledo, Calmness modulus of fully perturbed linear programs, Math. Program. Ser. A, 158:267-290, 2016
- M. J. Cánovas, M.J. Gisbert, R. Henrion, J. Parra, Lipschitz lower semicontinuity moduli for linear inequality systems, J. Math. Anal. Appl. 490: 124313, 2020
- G. Beer, M.J. Cánovas, M.A. López, J. Parra, Lipschitz modulus of linear and convex inequality systems with the Hausdorff metric, Math. Program. 189B:75-98, 2021

- J. Camacho, M.J. Cánovas, J. Parra, From calmness to Hoffman constants for linear semi-infinite inequality systems, SIAM J. Optim. 32: 2859-2878, 2022

#### PRINCIPAL INVESTIGATOR IN RESEARCH PROJECTS:

From MEC-MICINN/FEDER, Spain:

MTM2005-08572-C03-02: Regularity of multifunctions and quantification of the stability in Continuous Optimization, 2005-12-31 to 2008-12-30, 4 researchers, 41.650 €

MTM2006-27491-E: Complementary action "Incorporation of new mathematical tools to the team of project MTM2005-08572-C03-02 in special opportunity conditions", 2007-01-01 to 2007-09-10, 4 researchers, 15.000 €

MTM2011-29064-C03-03: Stability and Variational Analysis in finite and infinite-dimensional optimization, 2012-01-01 to 2014-12-31, 4 researchers, 30.734,00 €

PGC2018-097960-B-C21: Inner and outer stability in continuous optimization, 2019-01-01 to 2022-12-31, 4 researchers, 76.714,00 €

From Generalitat Valenciana:

ACOMP06/203: Complementary funding to project "Regularity of multifunctions and quantification of the stability in Continuous Optimization", 2006-01-01 to 2006-12-31, 4 researchers, 11.925 €

ACOMP/2007/247: Complementary funding to project MTM2005-08572-C03-02, 2007-01-01 to 2007-12-31, 4 researchers, 10.763,55 €

PROMETEO/2021/063 (2nd principal investigator): Data science and sustainable development objectives, 2021-01-01 to 2024-12-31, 20 researchers, 557.754,96 €

#### TEAM MEMBER IN RESEARCH PROJECTS:

From MCYT-MICINN-MINECO/FEDER, Spain:

BFM2002-04114-C02-02: Stability measures in Semi-Infinite Programming in different parametric contexts 2002-10-01 to 2005-09-30, 4 researchers (IP Juan Parra López), 31.680 €

MTM2008-06695-C03-02. Variational Analysis and Generalized Differentiation in Convex Optimization and related topics, 2009-01-01 to 2011-12-31, 5 researchers (IP Juan Parra López), 50.457,00 €

MTM2010-09810-E: Complementary action "4th Workshop on Optimization and Variational Analysis, in honor of Profesor Marco A. López on his 60th birthday", 2010-03-29 2010-12-31, 4 researchers (IP Juan Parra López),

MTM2014-59179-C2-2-P: Advances in the variational study of optimization problems, 2015-01-01 to 2018-12-31, 4 researchers (IP Juan Parra López) + 3 working team members, 69.091,00 €

From Generalitat Valenciana:

ACOMP/2009/047: Complementary funding to project MTM2008-06695-C03-02, 2009-01-01 to 2009-12-31, 5 researchers (IP Juan Parra López), 7.900 €

ACOMP/2010/269: Complementary funding to project MTM2008-06695-C03-02, 2010-01-01 to 2010-12-31, 5 researchers (IP Juan Parra López), 3.500 €

From other sources:

Bancaja-UMH: Stable solutions in cecision problems: An approach from Parametric Optimization and Game Theory, 2002-07-01 to 2004-06-30, 7 researchers (IP Juan Parra López), 12.020 €

SUPERVISOR OF PhD THESES:

Francisco Javier Toledo Melero (2003, co-supervisors M.A. López Cerdá J. Parra)

Francisco José Gómez Senent (2008, co-supervisor J. Parra)

María Jesús Gisbert Francés (2018, co-supervisor F.J. Toledo)

SUPERVISOR OF PhD THESES IN PROGRESS:

Jesús Camacho Moro (co-supervisor J. Parra, to be defended in October 2023).

EDITORIAL ACTIVITY:

Associate Editor of Pacific Journal of Optimization (Q4 in JCR2021 in Mathematics, Applied).

Guest Editor of TOP, vol. 20, n. 2, July 2012, Special Issue on Optimization and Variational Analysis: dedicated to Prof. Marco A. López on his 60th Birthday (impact factor 0.843 in JCR2012, position 44 out of 79 in Operations Research and Management Science).

Guest Editor of Set-Valued Var. Anal. vol. 28, n. 1, 2020, Special Issue "Error Bounds, Regularity, and Nonsmooth Optimization. Dedicated to Alexander Kruger on his 65th Birthday", March 2020 (impact factor 1.783 in JCR 2020, position 91 out of 265 in Mathematics, Applied)

Guest Editor of Vietnam Journal of Mathematics, vol. 48, n. 2-3, Special Issue Dedicated to Marco A López's 70th Birthday (not in JCR).

Reviewer for Mathematical Reviews and several JCR journals.

PROJECT REVIEWER: Reviewer for Agencia Nacional de Evaluación y Prospectiva (ANEP), Spain.

CONFERENCE TALKS:

Plenary speaker in Iberian Conference in Optimization, Coimbra (Portugal), Movember 16-18, 2006

Invited speaker in 7 international conferences, contributed speaker in 15, coauthor of 56 contributed international talks (not as speaker); invited speaker in 1 national conference, speaker in 5 national conferences and coauthor of 24 national talks.

CONFERENCE ORGANIZER: Chair of the organizing/scientific committee of 8 international conferences/workshops and 1 national, member of the organizing/scientific committee in other 10 international conferences or workshops and 3 national ones.

RESEARCH VISITS: Czech Technical University in Prague (October 6-14, 2002), University of Zurich (October 14-20, 2006), University of Cambridge (July 16-25, 2014), University of Edinburgh (July 13-31, 2015), University of Bergen (Norway, July 8-31, 2016), California State University in Los Angeles (July 17-August 2, 2017), Stevens Institute of Technology (Hoboken, NJ, July 12- August 1, 2018), University of Icelnad, Reykjavik (July 12-26, 2019), University of Turku, Finland (July 8-10, 2022).