

Fecha del CVA	
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Part A. Personal Information

Name and Surname	Genaro López Acedo		
DNI	08697232N	Age	61
Open Researcher and Contributor ID (ORCID)	Res. ID	G-7473-2015	
	Orcid	0000-0002-8303-7858	

A.1. Professional Situation

Institution	University of Seville		
Dpto./Centro	Mathematical Analysis		
Address	c/ Tarfia s/n 41012 Sevilla		
Phone	95455714	email	glopez@us.es
Position	Full Professor	Start day	21/09/193
Unesco Code	1202		
Key Words	Fixed point theory, Convex Optimization, Monotone Operators, Riemannian Manifolds		

A.2. Academic preparation (title, Institution, date)

BSc in Math.	University of Seville	1980
Master's degree	University of Seville	1981
PhD in Math.	University of Seville	1987

A.3. Indicators of Quality in Scientific Production

Total citations: 822 (Scopus)..Total publications in the first Quartile (Q1): 32 (JCR 2013)..h-index = 16 (Scopus).3 Thesis supervised.

Part B. Free Summary of CV

My research activity has been developed in the last 30 years. During this period I have been working with various techniques and tools used in the study of nonlinear problems: Degree Theory, Fixed Point Theory and Monotone Operators.

I obtained my PhD degree in September 1987 from the University of Seville having as scientific advisor Dr. Tomás Domínguez Benavides. My thesis mainly dealt with various problems in metric fixed point theory which motivated us to study the measure of non-compactness during the following 10 years. The obtained results are basically contained in the book "*Measures of Noncompactness In Metric Fixed Point Theory*"

written in 1997 together with J.M. Ayerbe and T. Domínguez, which was published by Birkhäuser as part of the prestigious Series Operator Theory. This book has become a basic reference for people working in Metric Fixed Point Theory having 134 citations according to MR.

The use of measures of noncompactness in the definition of some geometric constants which appear in results on the existence of fixed points for nonexpansive mappings naturally led to the problem of minimizing a convex functional because of the important role that this mapping plays in understanding the behavior of monotone operators. This is the framework, in the middle between geometry of Banach spaces and convex optimization, where I have worked during last 20 years. In this period I have supervised 3 PhD students, participated in 12 research projects and published more than 30 papers in the Q1 category.

At the moment I am starting a new research direction in collaboration with A. Lewis, U. Kohlenbach and A. Nicolae. We are exploring the possibility of using techniques from logic in some convex optimization problems and pursuit games.

Part C. Accomplishments (last five years)

C.1. Publications

G. Bento, J. X. Cruz Neto, G. López, A. Soubeyran and J. Souza , The proximal point method for locally Lipschitz functions in multiobjective optimization with application to the compromise problem, SIAM J. Optim. In Press

U. Kohlenbach, G. López and A. Nicolae, Quantitative asymptotic regularity results for the composition of two firmly nonexpansive mappings, Optimization, 66(8), 2017, 1291-1299.

López G.; Piatek, B A remark on characterization of compactness in geodesic spaces. Journal of Nonlinear and Convex Analysis. 7(7), 2016, 1259-1263.

C. Li, G. López J. Wang and Y. Yao Title: Proximal point algorithm in Hadamard manifolds: linear convergence and finite termination. SIAM J. Optim. 26(4), 2016, 2696-2729

Ariza, D. ; Fernández León, A. C. Li; G. López; Nicolae, A. *The metric projection in geodesic spaces* J. Approx. Theory, 207 (2016), 265-282.

Kristaly, A.; Nicolae, A. C. Li; G. López *What does convexity imply in Hadamard spaces* J. Optim. Theory Appl., 170(3), 1068-1079 (2016).

Ariza, D. López, G. Nicolae, The asymptotic behaviour of the composition of firmly nonexpansive mappings, J. Optim. Theory Appl., 167(2) (2015),

409-429.

Wang, J.; C. Li; G. López; Yao, J. *Convergence analysis of inexact proximal point algorithm in Riemannian manifolds*. J. Global Optim., 61(3) (2015), 553-573.

López G.; Piatek, B, *Characterization of compact geodesic spaces*. J. Math. Anal. Appl., 425(2) (2014), 748-757.

D. Ariza; C. Li; G. López, *The Schauder fixed point theorem in geodesic spaces*. J. Math. Anal. Appl., 417(1) (2014), 345-360.

D. Ariza; L. Leustean; G. López, *Firmly nonexpansive mappings in geodesic spaces*. Trans. Amer. Math. Soc., 366(8) (2014), 4299-4322.

D. Ariza; G. López; V. Martín-Márquez, *Firmly nonexpansive mappings*. J. Nonlinear Con. Anal., 15 (2014), 61-87. Clave:A

D. Ariza; A. Jiménez Melado, G. López, *A generalized Suzuki's condition in the sense of Rakotch.*, J. Nonlinear Con. Anal., 14 (2013), 735-745.

D. Ariza; Martol Briseid, E.A. Jiménez Melado, G. López, *Rates of convergence under weak contractiveness conditions*. Fixed Point Theory, 14 (2013), 11-27.

C.2. Projects

Proof Mining in der konvexen Optimierung und verwandten Gebieten" ("Proof Mining in Convex Optimization and related areas"). Financed by: KO 1737/6-1 Germany Host Institution Technische Universität Darmstadt (Darmstadt). Period: 2018-2021.. Head Researcher: U. Kohlenbach

Applications of Functional Analysis to the Resolution of Non Linear Equations, Optimization problems and Cyclicity D.G.E.S. REF MTM2015-65242-C2-1-P Host Institution: Univ. of Seville and Valencia 2016-2018. 92.000 euros .Head Researcher: Genaro López Acedo

Unconstrained reformulation and optimization problems with subsmooth Constraints. National Natural Science Foundation of China. Univ. of Seville and Hangzhou. 2012-2015. Amount: 400.000 RMB
Head Researcher: Chong Li

Applications of Functional Analysis to the Resolution of Non Linear Equations, Optimization problems and Cyclicity D.G.E.S. REF MTM2012-34847-C02-01, Univ. of Seville and Valencia 2012-2015. 80.000 euros

Head Researcher: Genaro López Acedo

Mathematical Analysis, Junta de Andalucía, Univ. of Seville , 2009-2013. 146.000 euros, Head Researcher: Tomás Domínguez Benavides

C.4 Deliver talks

Georg-August University Gottingen, Germany April 2018. BIRS Oaxaca, Mexico, September 2017. Málaga University, Spain, April 2016. Technische Universitat Darmstadt ,Germany, April 2016. Universidad Federal Do Rio de Janeiro, Brasil, August 2014. IMPA Rio de Janeiro, August 2014. Max Planck Institute fur Mathematik Leipzig, Germany, February 2014. at Banaras Hindu University, India, March . Royal Society of London April 2013 . 2013, BIRS, Banff , Canada, 2009.

C.4 Others

Member of the Research Committee of the University of Seville. Head of the Department of Mathematical Analysis of the University of Seville. Reviewer for Mathematical Reviews, Zentralblatt für Mathematik and Referee for several international journals.. Member of editorial boards of international mathematical journals. Member of the evaluation committees concerning the following PhD : D.~Alfredo Barrera Cuevas (University of Seville, July 2015), Dr Daniel Kornlein (Technique University Darmstadt (Germany), April 2016), Dr Joao Carlos de Oliveira Souza (Universidad Federal de Rio de Janeiro (Brasil), November 2016) and Dr Sipos Andrei Valentin (University of Bucharest (Rumania), September 201. Supervising Mr João Carlos de Oliveira Souza visiting PhD student, period from 01/05/2015 a 30/04/2016 supported by Brazilian National Council of Technological and Scientific Development-CNP.