CURRICULUM VITAE (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

Part A. PERSONAL INFORMATION

		CV date	05/12/2021

First name	Concepción		
Family name	Martínez Pérez		
Gender (*)	Female		
		URL Web	
Open Researcher and Contributor ID (ORCID) (*)		0000-0001-9147-1745	

(*) Mandatory

A.1. Current position

Position	Prof. Titular
Initial date	01/03/2003
Institution	Universidad de Zaragoza
Department/Center	Matemáticas
Country	Spain
Key words	Cohomología de grupos, teoría geométrica de grupos

A.2. Previous positions (research activity interruptions, art. 14.2.b))

Period	Position/Institution/Country/Interruption cause
09/1995 – 09/1997	Profesora Asociada, Universidad de Zaragoza
09/1997– 09/1999	Becaria predoctoral, Universidad de Zaragoza
09/1999 – 03/2003	Profesora Ayudante, Universidad de Zaragoza
09/2000 – 09/ 2001	Postdoc, ETH-Zentrum, Zürich

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD Mathematics	Universidad de Zaragoza, Spain	1999

Part B. CV SUMMARY *(max. 5000 characters, including spaces)*

My current research interests include group cohomological finiteness conditions, geometric group theory and Lie algebras. After completing my PhD thesis, supervised by Julio Lafuente, in 2000 I was a postdoc at the ETH, Zürich, where I started with a new research line on Bredon cohomology and proper actions. In the following years, together with coauthors such as Brita Nucinkis, Peter Kropholler, Dessislava Kochloukova, Dieter Degrijse, Javien Aramayona and Juan Souto we were able to determine the Bredon geometric dimension and other cohomological conditions of various families of groups (such as solvable, Coxeter, lattices in simple Lie groups or Thompson-like). Later, I became more interested in Sigma invariants (which I had already used in my research in Bredon cohomology). On 2012 I spent a semester as a visitor in the City College of New York where I participated in the New York Seminar in group theory organized by Gilbert Baumslag. Answering a question by G. Baumslag, with Dessislava Kochloukova we began a new research direction on cohomological finiteness conditions on Lie algebraa. This direction has been very fruitful so far and led me to start new research collaborations. I am also interested in Artin and right angled Artin groups and their automorphisms.

I co-supervised the PhD thesis of Ruben Blasco García, defended September 2019 and I am currently co-supervising two more PhD students, Alberto Cassella and Simone Blumer, both in cotutela between the Universities of Zaragoza and of Milano-Bicocca.

According to MathSciNet I am author of 46 publications, with 265 citations and 20 different coauthors from different countries (UK, Brasil, USA, France, Germany). According to WoS, I am author of 47 publications, with 255 citations and an h-index of 9.

I have participated as invited speaker in more than 20 international workshops or conferences and given 36 seminar talks.

In the period 2015 – 2019 I was the Coordinator of the Maths degree in the Univeristy of Zaragoza and since 2019 I am profesora secretaria of the Facultad de Ciencias of the University of Zaragoza. I have also been involved in dissemination activities around "11F Dia de la mujer y la niña en la ciencia".

I am a member of the editorial committee of Publicacions Matemàtiques and have acted as a referee for the journals of the London Math. Soc.; Revista Matematica Iberoamericana; Publicacions Matemàtiques, Discrete Mathematics, J. of Algebra, Annales de l'Institut Fourier, Groups Geometry and Dynamics, Proceedings of the Cambridge Phil. Soc. and Memoirs of the AMS. I have also been a member of several selection committees, including committees for the Ramón y Cajal and Juan de la Cierva grants. I have also performed evaluation tasks for several agencies such as Agencia Estatal de Investigación and National Science Center in Poland.

Part C. RELEVANT MERITS *(sorted by typology)*

C.1. Publications *(see instructions)*

1. C. Martínez-Pérez: *Subgroup posets, Bredon cohomology and equivariant Euler characteristics.* Transactions of the AMS 365 (8), 4351-4370 (2013).

2. J. Aramayona, C. Martínez-Pérez: *The proper geometric dimension of the mapping class groups*. Algebr. Geom. Topol. 14 (2014), no. 1, 217–227.

3. D. Degrijse, C. Martínez-Pérez: *Dimension invariants for groups admitting a cocompact model for proper actions. J. Reine Angew. Math.* 721 (2016), 233–249.

4. J. Aramayona, C. Martínez-Pérez: *On the first cohomology of automorphism groups of graph groups. J. of Algebra.* Volume 452, 15 (2016),17–41.

5. C. Martínez-Pérez, F. Matucci, B. Nucinkis: *Cohomological finiteness conditions and centralisers in generalisations of Thompson's group V*. Forum Math. 28 (2016), no. 5, 909–921.

6. J. Aramayona, D. Degrijse, C. Martínez-Pérez, J. Souto: *Geometric dimension of lattices in classical simple Lie groups.* J. Topol. 10 (2017), no. 2, 632–667.

7. P. Kropholler, C. Martínez-Pérez: *Homological Dimension of Elementary Amenable Groups. J. Reine Angew. Math.* 766 (2020) 45-60.

8. D. Kochloukova, C. Martínez-Pérez: *Coabelian ideals in N-graded Lie algebras and applications to right angled Artin Lie algebras.* To appear in Israel J. of Mathematics.

9. D. Kochloukova, C. Martínez-Pérez: *Bass-Serre theory for Lie algebras: a homological approach.* To appear in J. of Algebra.

10. R. Blasco-García, J. I. Cogolludo, C. Martínez-Pérez: *On the Sigma invariants of even Artin groups of FC-type.* To appear in J. of Pure and Appl. Algebra.

C.2. Congress

1. *Generalizations of Bestvina-Brady groups in even Artin groups and rigth angled Lie algebras*. Workshop on polyhedral products in geometric group theory. Fields institute, Toronto, Canada. Held on-line. 25-29 May 2020. (Invited speaker).

2. *On the proper geometric dimension of groups.* British Mathematical Colloquium. Lancaster, UK, 8-11 abril de 2019. (Invited speaker).

3. *Homological dimension of solvable groups.* Geometric Group Theory in Campinas 2018. ICM Satellite Conference, Campinas, Brasil, 28-31 julio de 2018. (Invited speaker). https://sites.google.com/view/2018-icm-ggt-campinas

4. *Cohomological and Metric Properties of Groups of Homeomorphisms of R*. Oberwolfach, Alemania, 3-9 de junio de 2018.

5. *On automorphism groups of RAAGs.* Warwick Symposium on The Geometry of Outer Spaces and Outer Automorphisms Groups. Warwick, Reino Unido, 16-20 de abril de 2018. (Invited speaker). https://warwick.ac.uk/fac/sci/maths/research/events/2017-18/symposium/gosoag/

6. *Homological dimension of solvable groups.* Homological Algebra and Topological Groups. Southampton, Reino Unido, 14-18 de julio de 2017. (Invited speaker). https://sites.google.com/site/haatg2017/speakers

7. *Homological dimension of solvable groups*. Groups in Galway 2017, Galway, Irlanda, 18 de mayo-20 de mayo de 2017. (Invited speaker). http://www.maths.nuigalway.ie/conferences/gig17/

8. *Extending to Lie algebras some results on subdirect products of groups* Introductory workshop in Geometric Group Theory. MSRI, Berkeley 22 – 26 de agosto de 2016. (Invited speaker). https://www.msri.org/workshops/769

9. *Recent results on the proper dimension of certain groups* Congreso Latinoamericano de matemáticos. Uninorte, Barranquilla, Colombia del 11 al 15 de julio de 2016. (Semiplenary invited speaker). https://www.uninorte.edu.co/web/vclam/conferencias-invitadas

10. *The proper geomeric dimension of the mapping class group.* Durham symposium on Geometric and Cohomological Group Theory. Durham, UK, 11-12 August 2013. (Invited speaker). http://www.maths.dur.ac.uk/events/Meetings/LMS/2013/GCGT13/talks.html

C.3. Research projects

MTM2010-19938-C03-03, January 2010 - December 2012.Research Project: *Propiedades aritméticas y estructurales de los grupos. Aplicaciones I.* PI: Javier Otal. 48.400€.

MTM2015-67781-P (MINECO/FEDER), January 2016 - December 2018.Research Project: *Propiedades de grupos de automorfismos y estructuras relacionadas.* PI: Conchita Martínez Pérez. 19.118€.

EPRSC grant EP/N007328/1, October 2015 – September 2018. Research Project: *Soluble groups and cohomology: new trends and transformative methods.* PI: Peter Kropholler. 413.453 £.

MTM2017-90720-REDT: July 2018 – June 2021. Red Española de Teoría de Grupos. PI: Conchita Martínez Pérez. 7.000 €.

PGC2018-101179-B-I00: January 2019 - August 2022: *Propiedades de grupos de automorfismos y estructuras relacionadas.* PI: Javier Aramayona Delgado, Conchita Martínez Pérez. 13.068 €.

REL.I/2020-002: January 2021 – February 2024: HARMONY: Internationalisation and Virtual Exchange: Borderless between EU and Asian Countries. PI: Rafael de Miguel González, Juan Vallés Brau. 873.560 €.

DGA (Gobierno de Aragón). Plan autonómico de investigación y UE fondos FEDER. Grupo Consolidado de Investigación en Álgebra, from 2003 to present. PI: Javier Otal (2003-2018), Enrique Artal (from 2019).

C.4. Contracts, technological or transfer merits