Luis Diego Martínez Magán

Curriculum Vitae

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Education

2008–2010	**Superior Bachelor**, *Public Institute San Juan Bautista*, Madrid, *Overall Rating – 9/10*. Specialization in Science.
2010–2015	**Double Graduate in Mathematics and Computer Engineering**, *360 ECTS. Overall Rating – 8.5/10*, Universidad Autónoma de Madrid –UAM.
2015–2016	**Master in Mathematics and Applications**, *60 ECTS. Overall Rating - 8.87/10*, Universidad Autónoma de Madrid –UAM.
2016– 2021(expected)	**PhD in Mathematical Engineering**, *Universidad Carlos III de Madrid*, Advisor: Fernando Lledó.

Master thesis

Title	*Paradoxical Decompositions, Amenability and Applications.*
Supervisor	Professor Fernando Lledó, rating 10/10

Papers & articles

Sept. 12, '18	**Notions of infinity in Quantum Physics**, *Authors: Fernando Lledó, Diego Martínez.*
February, '20	**Amenability in semigroups and C*-algebras**, *Authors: Pere Ara, Fernando Lledó, Diego Martínez*, J. Func. Anal. (2020) https://doi.org/10.1016/j.jfa.2020.108530.
April, '20	**The uniform Roe algebra of an inverse semigroup**, *Authors: Fernando Lledó, Diego Martínez, submitted*.

Teaching experience

Winter '17	**Linear Algebra (Problem Class, 30h)**, *Energy Engineering, 1st Year*, UC3M.
Winter '18	**Calculus I (Problem Class, 30h)**, *Aerospace Engineering, 1st Year*, UC3M.

Research stays

May 2-5, '16	**University of Münster, Germany**, *Institute of Theoretical Mathematics.*

Nov. 15-17, '17	**Universidad Autonoma de Barcelona (UAB), Spain**, *CRM - Centre de Recerca Matematica*.
June 25-28, '18	**Universidad Autonoma de Barcelona (UAB), Spain**, *CRM - Centre de Recerca Matematica*.
August-December, '19	**Texas A&M**, *Department of Mathematics, visiting as a Research Scholar*.

Talks (imparted)

June 13, '16	**Paradoxical Decompositions, Amenability and Applications**, Universidad Carlos III de Madrid.
May 7, '18	**Amenability in (Semi)-groups and Algebras**, BYMAT conference (ICMAT), Madrid, Spain.
June 6, '18	**Esquemas piramidales y porqué deberíamos pagar menos por las naranjas**, Junior seminar, UAM-UC3M-UCM-ICMAT, Madrid, Spain.
June 25, '18	**Amenability in semigroups and C*-algebras**, UAB, Seminar in Ring Theory, Barcelona, Spain.
Nov. 27, '18	**Amenability in inverse semigroups and C*-algebras**, UC3M, Madrid, Q-math research group.
Dec. 11, '18	**Amenability in inverse semigroups and C*-algebras**, Universidad de Cádiz, II Joint Meeting Spain-Brazil in Mathematics, invited talk.
March 19, '19	**Inverse semigroup Roe algebras**, Operator Algebras, Groups and Applications to Quantum Information, Workshop I.
June 12, '19	**Amenability in Inverse semigroup**, *Contributed talk in SandGAL-2019, Cremona, Italy*.
August 9, '19	**Traces in inverse semigroup Roe algebras**, *YMC*A-2019, Copenhagen, Denmark*.
Sep. - Nov., '19	**Reading seminar about quasidiagonality and the proof of the Tikuisis-White-Winter theorem**, *Operator Algebras seminar, Texas A&M*.
Nov. 13, '19	**Quasidiagonality and relation to index and group theory**, *Student Seminar in groups and dynamics, Texas A&M*.
Nov. 13, '19	**Coarse geometry and inverse semigroups**, *GSO seminar, Texas A&M*.
Nov. 25, '19	**Coarse geometry and inverse semigroups**, *Colloquia, University of Montana*.
Jan. 16, '20	**Quasi-diagonality and approximation of operators**, *Junior Seminar, ICMAT-UAM-UCM-UC3M*.
Feb. 19, '20	**Quasi-diagonality and finite-dimensional approximations**, *Q-Math seminar, UC3M*.
March 3, '20	**Quasi-diagonality vs amenability of discrete groups**, *Group theory seminar, UAM*.
May 6, '20	**Some quasi-isometric invariants for inverse semigroups**, *Semigroup seminar of York, University of York*.

Awards and grants

2012	**BIT Summer School in Beijing**, *Grant awarded to pay for an intensive course on chinese culture and language*, Beijing Institute of Technology –BIT.
2015	**UAM - Grant from the department of mathematics**, *Grant intended to support the study of the Master in Mathematics. One of the first 5*, Universidad Autónoma de Madrid.

2016-2021	**FPI** - Severo Ochoa - **Grant from the Ministry of Economy of Spain**, *Grant created to support the fulfillment of the PhD in various areas, such as Mathematics*, Universidad Carlos III de Madrid - ICMAT (Instituto de Ciencias Matemáticas).

Courses, schools and workshops (assisted to)

June - July '15	**JAE summer school of Mathematics**, *Instituto de Ciencias Matemáticas –ICMAT*.
Nov. 11-15, '15	**Derivations on Banach and C*-algebras**, *Doctor Martin Mathieu (MRIA, Queen's University Belfast)*, Universidad Carlos III de Madrid –UC3M.
March 13-17, 2017	**Advanced Course on Operator Algebras: Groupoids, Crossed Products and Rohklin Dimension**, *Part of the Intensive Research Program Operator Algebras: Dynamics and Interactions*, Centre de Recerca Matemàtica – Barcelona.
March 20-24, '17	**Workshop on C*-algebras and Dynamical Systems**, *Part of the Intensive Research Program Operator Algebras: Dynamics and Interactions*, Centre de Recerca Matemàtica – Barcelona.
March 6-10, '17	**Group Theory, Quantum Correlation Sets and Tsirelson's Problem**, *William Slofstra*, ICMAT (Instituto de Ciencias Matemáticas) – Severo Ochoa.
Aug., 7-11, '17	**Young Mathematicians in C*-algebras (YMC*A)**, *Department of Mathematical Sciences of the University of Copenhagen, Denmark*.
Oct., 28-1, '17	**Workshop on Operator Algebras, Geometry and Actions**, *Banach Center in Warsaw, Poland*.
Nov. 16-17, '18	**Barcelona weekend on operator algebras**, *Centre de Recerca Matemàtica – Barcelona*.
Dec. 11-14, '18	**II joint meeting Spain-Brazil in Mathematics**, *Universidad de Cádiz – Cádiz*.

Courses, schools and workshops (organized)

June 26th-July 7th, '17	**Organizer of Escuela JAE Intro 2017**, *ICMAT (Instituto de Ciencias Matemáticas) – Severo Ochoa*.
March-June, 2019	**Thematic Research Program: Operator Algebras, Groups and Applications to Quantum Information**, *ICMAT (Instituto de Ciencias Matemáticas) – Severo Ochoa*, `https://www.icmat.es/RT/2019/OAGAQI/index.php`.
Sep. 2019 - Dec. 2020	**Junior seminar**, *ICMAT (Instituto de Ciencias Matemáticas) – Severo Ochoa*.

Other courses and miscellanea

2009	**Seventh grade in spoken English**, *Trinity College London*.
2012	**BIT Summer School in Beijing**, *Beijing Institute of Technology –BIT*.
2017	**Dándole vueltas al infinito**, *Divulgation newspaper article, El País*.
2019	**Ganar juegos usando la mecánica cuántica**, *Divulgation newspaper article, El País*.

Languages

Spanish **Mother tongue**

English **Advanced (C1)**

2014 **Certificate in Advanced English**, *Cambridge English*.
Exceptional in Writing