

Manuel Mérida Angulo

Curriculum Vitae

Ghent University
Krijgslaan 281 (S22) , 9000 Gent, Belgium
✉ mmerida107@gmail.com

Education

- 2013–present **PhD in Mathematics**, *Ghent University*, Belgium.
Thesis title *Exploring \mathbb{F}_1 -Geometry: Deitmar schemes, loose graphs and motives.*
Supervisor Koen Thas
- 2012–2013 **Master Mathématiques fondamentales**, *University Pierre et Marie Curie*, Paris, France.
Thesis title *Gauss-Manin Connection in the De Rham Cohomology Sheaves.*
Supervisor João Pedro P. Dos Santos.
- 2010–2011 **Erasmus exchange program**, *University Pierre et Marie Curie*, Paris, France.
- 2007–2012 **Bachelor in Mathematics**, *University of Seville*, Spain.

Awards

- 11/2012 **Premio San Alberto Magno.**
Best GPA for the Bachelor in Mathematics, University of Seville, 2007-2012.
- 01/2013 **Premio Extraordinario Fin de Carrera.**
Best GPA for the Bachelor in Mathematics, University of Seville, 2007-2012.
- 01/2013 **Premio Real Maestranza de Caballería de Sevilla.**
Best GPA for the Bachelor in Mathematics, University of Seville, 2007-2012.
- 11/2013 **Premio Ayuntamiento de Sevilla.**
Best GPA for the Bachelor in Mathematics, University of Seville, 2007-2012.

Grants and Scholarships

- 2013 **PhD Scholarship**, *Ghent University*, Belgium.
- 2012 **Initiation to Research Grant**, July and September, *University of Seville*, Spain.
Advisor Luis Narváez Macarro.
- 2011-2012 **Research Collaboration Grant**, *Department of Algebra, University of Seville*, Spain.
Advisor Luis Narváez Macarro.
Project *Differential algebra and singularities over fields with positive characteristic.*
- 07/2011 **Initiation to Research Grant**, *University of Seville*, Spain.
Advisor Luis Narváez Macarro.
- 2010-2011 **Erasmus Grant**, *University Pierre et Marie Curie*, Paris, France.

Publications

M. Mérida-Angulo and K. Thas. *Deitmar schemes, graphs and zeta functions*, To appear in *Journal of Geometry and Physics*.

M. Mérida-Angulo and K. Thas. *Automorphisms of Deitmar schemes, I. Functoriality and trees*, Submitted.

M. Mérida-Angulo and K. Thas. *The structure of Deitmar schemes, II. Zeta functions and automorphism groups*, Submitted.

M. Mérida-Angulo and K. Thas. *Graphs, \mathbb{F}_1 -schemes and virtual Tate motives*, Submitted.

Teaching

Spring 2017 **Algebraische topologie en homologe algebra**, Ghent University, Belgium.
Teaching assistant.

Spring 2016 **Algebraische topologie en homologe algebra**, Ghent University, Belgium.
Teaching assistant.

Seminars and Talks

11/2016 **Seminar on Incidence Geometry**, *ULB*, Brussels, Belgium.
"Automorphism groups of Deitmar schemes and trees."

11/2016 **PhD Seminar**, *Ghent University*, Ghent, Belgium.
"From algebraic varieties to scheme theory."

04/2015 **Seminar of Algebra**, *University of Seville*, Seville, Spain.
" \mathbb{F}_1 : El cuerpo que no existe."

Attended Conferences

08/2016 **Introductory Workshop on Combinatorial Algebraic Geometry**, *Fields Institute*, Toronto, Canada.

05/2016 **Group Theory Geometry and the Influence of Jacques Tits**, Karlsruhe, Germany.

10/2015 **Singularités et Géométrie Tropicale**, Paris, France.

09/2015 **Buildings 2015**, Munster, Germany.

08/2015 **Students' Workshop on Tropical and Non-Archimedean Geometry**, Regensburg, Germany.

11/2014 **50 years of Finite Geometry: A conference on the occasion of Jef Thas's 70th birthday**, Gent, Belgium.

09/2014 **Buildings 2014**, Munster, Germany.

07/2014 **Periods and Motives: Feynman amplitudes in the 21st century**, *Clay Mathematics Institute Summer School*, Madrid, Spain.

05/2014 **NSF-CBMS Regional Research Conference in the Mathematical Sciences on Combinatorial Zeta and L-functions**, Provo (Utah), USA.

07/2012 **Singularities and Applications**, *Doc Summer School*, Sevilla, Spain.

06/2012 **The Resolution of Singular Algebraic Varieties**, *Clay Mathematics Institute Summer School*, Obergurgl, Austria.

09/2011 **Congreso de Jóvenes Investigadores de la Real Sociedad Matemática Española**, Soria, Spain.

Languages

Spanish Native speaker

English Fluent (reading, writing and speaking), Certificate in Advanced English, level C1

French Fluent (reading, writing and speaking)

Dutch Intermediate (reading, writing and speaking)