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CONTACT INFORMATION

Professional address: Department de Matemàtiques i Informàtica, Universitat de Barcelona,
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EDUCATION

09/2016 - (08/2019)   **Ph.D. in Mathematics.**
Center: *Universitat de Barcelona.*
City, Country: Barcelona, Spain.
Advisor: Carlos D'Andrea.

09/2015 - 08/2016   **Postgraduate Diploma Programme in Mathematics.**
Center: *Abdus Salam International Centre for Theoretical Physics* (ICTP).
City, Country: Trieste, Italy.
Description: An intense, pre-PhD programme (diploma.ictp.it).
Thesis Title: "Syzygies".
Advisor: Lothar Göttsche.

09/2009 - 07/2014   **Bachelor in Computer Science.**
Center: *Universidad Central "Marta Abreu" de las Villas* (UCLV).
City, Country: Santa Clara, Cuba.
Thesis Title: "Cryptographic algorithm based on group presentations".
Specialization: with a special syllabus corresponding to Mathematics.
Advisor: Eberto Morgado.
Final Cumulative Grade: Gold title, 7.51 (over a maximum of 5).

WORK EXPERIENCE

09/2016 - Present   Center: *Universitat de Barcelona.*
Position: Researcher & PhD candidate in the ARCADES network
(http://arcades-network.eu) under the Marie Sklodowska-Curie grant
agreement No 675789.

09/2014 - 07/2015   Center: *Universidad Central "Marta Abreu" de las Villas.*
Position: Graduate Teaching Assistant in the Department of Mathematics.

PUBLICATIONS & PREPRINTS

- *"Bounding the degrees of a minimal μ-basis for a rational surface parametrization"*, arXiv:1611.07506.
- *"A D-module approach on the equations of the Rees algebra"*, arXiv:1706.06215.
- *"Regularity and Gröbner bases of the Rees algebra of edge ideals of bipartite graphs"*, to appear in Le Matematiche, arXiv:1801.06731.
- (with Sepehr Jafari, Beatrice Picone and Navid Nemati), *"Regularity of bicyclic graphs and their powers"*, arXiv:1802.07202.
- (with Laurent Busé and Carlos D'Andrea), *"Degree and birationality of multi-graded rational maps"*, arXiv:1805.05180.

AWARDS & DISTINCTIONS

- Winner of the top student prize in Mathematics in ICTP, 2016.
- One of the 10 selected students in the Postgraduate Diploma Programme in Mathematics in ICTP, 2015.
- Best graduate student in 2014 in the Universidad Central "Marta Abreu" de Las Villas, 2014.

- SILVER MEDAL in the XV Iberoamerican Mathematical Olympiad, 2012.
- BRONZE MEDAL in the XIII Iberoamerican Mathematical Olympiad, 2010.
- GOLD MEDAL in the 11th Cuban Mathematical Olympiad, 2012.
- GOLD MEDAL in the 12th Cuban Mathematical Olympiad, 2013.
- HONORABLE MENTION in the 13th Cuban Mathematical Olympiad, 2014.
- BRONZE MEDAL in the Caribbean Regional Final of the Latin American programming ACM-ICPC, 2012.
- HONORABLE MENTION in the Caribbean Regional Final of the Latin American programming ACM-ICPC, 2011
- HONORABLE MENTION in the Caribbean Regional Final of the Latin American programming ACM-ICPC, 2013.

RESEARCH VISITS
- INRIA Sophia Antipolis, 6 months, 10/2017 - 03/2018, mentor: Lurent Busé.

FELLOWSHIPS
- 09/2016 - 08/2019: Marie Sklodowska-Curie Fellowship, Universitat de Barcelona, Barcelona, Spain.
- 09/2015 - 08/2016: Awarded a fully funded scholarship to pursue the Postgraduate Diploma in Mathematics at ICTP, Trieste, Italy.

INVITED TALKS
- *"Regularity of bicyclic graphs and their powers"*, IPPI Workshop 2018 (post-Pragmatic 2017 event), Turin, Italy, March 2018.
- *"Regularity and Gröbner bases of the Rees algebra of edge ideals of bipartite graphs"*, Journées Nationales de Calcul Formel, CIRM, Luminy, France, January 2018.
- *"A D-module approach on the equations of the Rees algebra"*, Séminaire d'algèbre, topologie et géométrie, University of Nice, France, November 2017.
- *"Bounding the degrees of a minimal μ-basis for a rational surface parametrization"*, Society for Industrial and Applied Mathematics, Applied Algebraic Geometry Conference, Atlanta, United States, August 2017.
- *"Bounding the degrees of a minimal μ-basis for a rational surface parametrization"*, Effective Methods in Algebraic Geometry MEGA 2017, Nice, France, June 2017.
- *"Bounding the degrees of a minimal μ-basis for a rational surface parametrization"*, Seminari de Geometria Algebraica de Barcelona, Barcelona, March 2017.

CONFERENCES & WORKSHOPS
- Workshop on Commutative Algebra, Syzygies and Singularities, Nice, France, December 2017.
- First Software & Industrial Workshop, and Midterm Review ARCADES, Athens, Greece, November 2017.
- Research school in Algebraic Geometry and Commutative Algebra, *Pragmatic 2017*, Catania, Italy, June 2017.
- Learning Week I in *Algebraic Representations in Computer-Aided Design for complEx Shapes (ARCADES)*, Nice, France, March 2017.
- 1st Doctoral School ARCADES, Oslo, Norway, December 2016.
- Workshop in Algebra, Algebraic Geometry, Algebraic Topology and Applications sponsored by *Centro de Investigaciones en Matemáticas(CIMAT, Guanajato, México)* in Ciego de Avila, Cuba, 2014.

LANGUAGES
Spanish: Mother tongue.
English: Fluent.

COMPUTER SKILLS

C/C++, JAVA, LaTeX, Linux, Wolfram Mathematica, MACAULAY2, SINGULAR.