



Carlos Casorrán Amilburu

Date of Birth: 20/04/1987 NIF: 48337231-V

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Education

2013 –

Doctoral (Ph.D.) candidate with a FRIA (Fonds pour la Recherche dans l'Industrie et dans l'Agriculture) fellowship in Computer Science

Graphs and Mathematical Optimization group, Computer Science Department – **University of Brussels.**

Thesis Promotor Prof. Martine Labbé: Stackelberg games : models and algorithms.

Supervising Committee: Bernard, Fortz, Jean-François Raskin, Yves Crama.

2011 – 2012

Masters Degree (M.Sc.) in Matemática Avanzada y Profesional (Advanced and Profesional Mathematics)

Faculty of Mathematics – **University of Murcia.**

Qualification: **8,85** over 10. **2.90** over 4.

Master Thesis Promotor Prof. Alfredo Marín Pérez: Aplicaciones de la Optimización Combinatoria a la Biología Computacional. (Applications of Combinatorial Optimization to Computational Biology) Graded **9,6 (MH)** with honours.

2005 – 2011 5-Year Degree in Mathematics

Science Faculty – **University of Alicante.**

Qualification: 8,21 over 10. 2.38 over 4.

Awarded an Honourable Mention by the Faculty of Science 2010-2011.

2008 – 2009 Awarded **ERASMUS** grant to study at the University of Edinburgh

Conferences, Seminars and Courses

- January 2015* Participated in the Belgian Operations Research Society meeting, **ORBEL29**, in Antwerpen. Hosted by the University of Antwerpen. (Speaker)
- Sept. 2014* Participated in the **Business Analytics and Optimization International Conference on Operations Research 2014**, held in Aachen, organized by GOR (German OR Society). (Speaker)
- July 2014* Participated in the **20th Conference of the International Federation of Operations Research Societies, IFORS**, held in Barcelona, organized by IFORS. (Speaker)
- April 2014* Participated in the **20th Belgian Workshop on Mathematical Programming Optimization**, held in La-Roche-en-Ardenne, organized by Comex.
- March 2014* Participated in the **3rd International Symposium on Combinatorial Optimization (ISCO)**, held in Lisbon, organized by the Centro de Investigação Operacional. (Speaker)
- March 2014* Participated in the **Spring School on Stochastic Programming**, held in Lisbon, organized by the Centro de Investigação Operacional.
- January 2014* Participated in the Belgian Operations Research Society meeting, **ORBEL28** in Mons. Hosted by the University of Mons. (Speaker)
- June 2013* Participated in the **Mathematics of Operations and Logistics Conference 2013**. Hosted by the Zaragoza Logistics Center and the University of Zaragoza.
- January 2013* Participated in the **Winter School on Network Optimization**, held in Estoril, organized by the Centro de Investigação Operacional.
- Dec. 2012* **Invited talk “Mathematics and Linguistics”** given at the IV Concurso de Microrrelatos Matemáticos (**IVth Contest of Mathematical Micro-narratives**).
- June 2012* Participated in III Jornadas de Análisis Matemático en Alicante. **Mathematical Analysis Seminar**, University of Alicante.
- April 2012* XXXIII Congreso Nacional de Estadística e Investigación Operativa **National Seminar on Statistics and Operational Research** organized by the Sede de Estadística e Investigación Operativa SEIO2012 and Rey Juan Carlos University, Madrid.
- April 2011* Participated in Juego de simulación empresarial BugaCAM. **Business Entrepreneurial Simulation**, Fundesem Business School.
- April 2011* VII Encuentro de Análisis Funcional y Aplicaciones. **Seminar on Functional Analysis and applications**, University of Zaragoza.
- April 2011* Participated in **Functional Analysis Workshop** during VII Encuentro de Análisis Funcional y Aplicaciones seminar, University of Zaragoza.
- Dec. 2010* **Second Latin Congress on Symmetries in Geometry and Physics**, Universidade Federal do Paraná. (Speaker)
- April 2008* Edició de textos científics i tècnics amb LaTeX. **Scientific and technical text processing with LaTeX** course. University of Alicante.
- Sept. 2007* **Geometry of Numbers** course. University of Alicante.
- April 2007* Participated in I Jornadas Internacionales de Deportes en la Playa. **International Seminar on beach sports**. University of Alicante.
- Sept. 2005* Razonamiento Matemático y Matemática Discreta **Mathematical Reasoning and Discrete Mathematics** course. University of Alicante.

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- Sept. 2005 Básico de Cálculo II **Mathematical Analysis and Calculus** course. University of Alicante.
- Sept. 2005 Básico de Cálculo I **Mathematical Analysis and Calculus** course. University of Alicante.
- Sept. 2005 Introducción a un procesador de textos científicos LaTeX. **Introduction to LaTeX, a scientific text processor**. University of Alicante.
- Sept. 2005 Introducción a un programa de cálculo científico MATLAB. **Introduction to MATLAB**, a high-level technical computing language and interactive environment for algorithm development, data visualization, data analysis, and numerical computation. University of Alicante.

Research Projects

Project Name: Proyecto Redes de Investigación en docencia universitaria 2010-2011.
MODALIDAD 1 Redes de investigación en docencia universitaria de Titulación-EEES. **"Elaboración de las guías docentes de segundo curso de grado en matemáticas"**.
Creating adequate syllabi for second year subjects in Mathematics Degree studies.
Funded by: Universidad de Alicante.
Duration: 2010-2011.
Project Leader/ Principal Investigator: María Dolores Molina Vila, University of Alicante.

Project Name: **ICMS Research in Groups Programme Topology of Moduli Spaces.**
Funded by: International Centre for Mathematical Sciences, ICMS, Edinburgh.
Duration: July-August 2009.
Principal Investigator: Elizabeth Gasparim, University of Edinburgh.

Grants and Scholarships

2013-2017

Ph.D. Fonds National pour la recherche dans l'Industrie et dans l'Agriculture FRIA Fellowship.
Institution that awarded fellowship: Fonds National de la Recherche Scientifique, Belgium.

2011-2012

M.Sc. Scholarship covering tuition fees.
Institution that awarded scholarship: Faculty of Mathematics, University of Murcia.

2010-2011

Research Project Grant to develop adequate syllabi for second year subjects in Mathematics Degree.
Institution that awarded grant: Instituto de Ciencias de la Educación (Education Sciences Institute)

2010-2011

Internship at Statistics and Operational Research Department at the University of Alicante.
Institution that awarded fellowship: Ministerio de Educación, Cultura y Deporte (Spanish Ministry of Education)

2008-2009

ERASMUS grant to study at the University of Edinburgh. Completed 4th year of 5-year degree abroad.

Publications

Title: "Las matemáticas de nuestra vida"
Contributed chapter: La Lógica como Tertium Comparationis.
Authors: Mulero González, J., Segura Abad, L., Sepulcre Martínez, J.M (Editors).
ISBN: 978-84-9717-339-1
No. of pages: 176

2014, Servicio de Publicaciones de la Universidad de Alicante.

Title: "Isomorphisms of Moduli Spaces"

Authors: Casorrán Amilburu, C., Gasparim, E., Callander, B. and Barmeier, S.

Journal: Matemática Contemporânea. Vol 41, 01-16.

2012, Sociedade Brasileira de Matemática.

Title: "Redes de Investigación docente universitaria: Elaboración de las guías docentes de segundo curso del grado en matemáticas"

ISBN: 978-84-695-1151-0.

Journal: University of Alicante Publications.

Date: 2011

Authors: Molina, M., Casorrán Amilburu, C., et al.

Teaching

2013-2014

Graph Theory - Exercise Lessons. Master in Computer Science, ULB.

Language Skills

Spanish: Native Skills

English: Native Skills. Certificate of Proficiency in English (CPE). Awarded grade A. ESOL examinations, University of Cambridge.

German: IGCSE German as a foreign language. ESOL examinations. University of Cambridge.

French: 4 years of private tuition. Good oral and writing skills. Studied 3rd year French at the Escuela Oficial de Idiomas (Official Languages School) in Alicante and passed the course with Honours.

IT Skills

Working knowledge:

Windows, MS Office, OpenOffice, Internet, LaTeX, Photoshop CS5, Corel DRAW X5, WinEdt, LaTeX.

Programming Languages;

R, S-plus, C, C++, SPSS, Maple, Matlab, Mathematica, XPRESS, Maxima.

Miscellaneous Information

- **Mathematics Degree with Honours** regarding academic excellence awarded by the University of Alicante.
- **Driving permit.**
- **Straight A's in A-Level and AS-Level Cambridge Exams**, Costa Blanca International School.
- **Treasurer** of the Student Delegation at the Faculty of Science, University of Alicante May 2010-September 2011.
- **Member** of the **Student Council**, University of Alicante 2009-2011.
- **Member** of the **Faculty of Science Senate**, as a student, University of Alicante.
- **Assistant** of the **Secretariado de Programas Internacionales y Movilidad**. Duties involved welcoming foreign students to the University of Alicante and giving talks regarding life at the University of Alicante.
- **Actor** in several Theatrical and Movie productions.
- **Judo**. I hold a **1st KYU** level which corresponds to a **brown belt**.