



## Carlos Casorrán Amilburu

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

Nationality: Spanish

Address: Rue de Haerne, 94. 1040 Etterbeek, Bruxelles, Belgique.

Cell Phone: +32 (0) 4 8668 28 46

E-mail: [casorranamilburu@gmail.com](mailto:casorranamilburu@gmail.com)

### Education

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**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

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## Conferences, Seminars and Courses

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- 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

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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

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### 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

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*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

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2014, Servicio de Publicaciones de la Universidad de Alicante.

*Title: "Isomorphisms of Moduli Spaces"*

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

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**2013-2014**

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

## Language Skills

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**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 3<sup>rd</sup> year French at the Escuela Oficial de Idiomas (Official Languages School) in Alicante and passed the course with Honours.

## IT Skills

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**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

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- **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 **1<sup>st</sup> KYU** level which corresponds to a **brown belt**.