

# Carlos Domingo

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## Current Situation

📁 **Data Analyst**, at *Ubisoft Barcelona Mobile*.

*Starting date:* February 2017.

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## Education

APR 2016 **Ph.D. in Mathematics**, Title: *Endpoint Estimates via Extrapolation Theory*, Ph.D. Advisor: *M. J. Carro Rossell*, *Universitat de Barcelona*, Spain.

Cum Laude distinction

JUL 2012 **M.Sc. in Advanced and Professional Mathematics**, *Universitat de Barcelona*, Spain.

Average: 9.70/10

JUL 2011 **B.Sc. in Mathematics**, *Universitat de Barcelona*, Spain.

Average: 9.55/10

## Languages

CATALAN **Native Level.**

SPANISH **Native Level.**

ENGLISH **Proficiency Level**, *granted by the University of Michigan.*

FRENCH **Basic Level.**

## Professional Experience

### Work Experience

2013 – 2017 **Graduate Researcher**, *Universitat de Barcelona*, Barcelona.

JAN – FEB 2013 **High School Teacher**, *temporary contract at Escola Anna Ravell.*

2011 – 2012 **Research Internship**, *at Institut de Matemàtica de la Universitat de Barcelona.*

### Teaching Experience

FALL SEM. 2016 **B.Sc. in Mathematics**, *Real and Functional Analysis*, *Universitat de Barcelona.*  
Problem Sessions - 30h

FALL SEM. 2016 **B.Sc. in Mathematics**, *Differential Calculus in Several Variables*, *Universitat de Barcelona.*  
Problem Sessions - 15h

FALL SEM. 2015 **M.Sc. in Advanced Mathematics**, *Functional Analysis and Partial Differential Equations*, *Universitat de Barcelona.*  
Theory and Problems - 6h

FALL SEM. 2015 **B.Sc. in Mathematics**, *Introduction to Differential Calculus*, *Universitat de Barcelona.*  
Problem Sessions - 15h

FALL SEM. 2015 **B.Sc. in Mathematics**, *Differential Calculus in Several Variables*, *Universitat de Barcelona.*  
Problem Sessions - 15h

## International Research Stays

APR – MAY 2015 **Georgia Institute of Technology**, *Atlanta, USA*, with prof. M. Lacey.

SEP – DEC 2014 **University of Birmingham**, *Birmingham, United Kingdom*, with prof. J. Bennett.

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## Participation in R&D Projects with Public Funding

- 2014 – 2016 **Espacios de Funciones y Técnicas de Acotación de Operadores en Análisis**, *Ref.: MTM2013-40985-P*, at the University of Barcelona, by the Spanish government.  
Researcher ID: M. J. Carro Rossell – EUR 39,752.00
- 2014 – 2016 **Grup de Teoria de Funcions**, *Ref.: 2014SGR289*, at the University of Barcelona, by the Catalan government.  
Researcher ID: M. C. Cascante Canut – EUR 30,000.00
- 2011 – 2013 **Espacios de Funciones y Técnicas de Acotación de Operadores en Análisis**, *Ref.: MTM2010-14946*, at the University of Barcelona, by the Spanish government.  
Researcher ID: J. Soria de Diego – EUR 95,000.00

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## Attendance to Conferences and Scientific Meetings

- SEP 2016 ↪ **Barcelona Analysis Conference**, at the University of Barcelona, Barcelona, Spain.
- JAN 2016 ↪ **European Study Group with Industry**, by the Maths for Industry Network, at the Centre de Recerca Matemàtica, Bellaterra, Spain.
- SEP 2015 ↪ **III Young Researchers Conference**, by the Spanish Royal Mathematical Society RSME, at the University of Murcia, Murcia, Spain.
- MAY 2015 ↪ **XVI Real and Complex Analysis Conference EARCO**, at the University of Sevilla, Carmona, Spain.
- DEC 2014 ↪ **LMS Network Meeting on Harmonic Analysis and PDEs**, at the University of Warwick, Coventry, United Kingdom.
- JUL 2014 ↪ **Harmonic Analysis to Celebrate Michael Cowling's 65th**, by the ICMAT and the European Mathematical Society, Segovia, Spain.
- MAY 2014 ↪ **XV Real and Complex Analysis Conference EARCO**, at Universitat Autònoma de Barcelona, Girona, Spain.
- SEP 2013 ↪ **II Young Researchers Conference**, by the Spanish Royal Mathematical Society RSME, at the University of Sevilla, Sevilla, Spain.
- MAY 2013 ↪ **XIV Real and Complex Analysis Conference EARCO**, at the University of Zaragoza, Teruel, Spain.
- JUN 2012 ↪ **9th International Conference on Harmonic Analysis and PDE**, El Escorial, Spain.
- APR 2012 ↪ **VIII Meeting of the Functional Analysis Network**, at the University of Murcia, La Manga del Mar Menor, Spain.
- APR 2012 ↪ **II Workshop on Functional Analysis and Applications**, at the University of Murcia, La Manga del Mar Menor, Spain.
- AUG 2011 ↪ **LERU Bright Student Conference**, at the University of Lund, Helsingborg, Sweden.
- JUL 2011 ↪ **The Millennium Prize Problems Conference**, to celebrate the 100th anniversary of the RSME, at the University of Barcelona, Barcelona, Spain.

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## Attendance to Advanced Courses

- NOV 2014 ↪ **Calderón-Zygmund and Sparse operators**, at the University of Birmingham, 6 hours, Birmingham, United Kingdom.  
by M. C. Reguera
- SEP 2014 ↪ **Dyadic Harmonic Analysis and Related Topics**, XV EMS School of Mathematics, 30 hours, Santander, Spain.  
by T. Hytönen, A. Lerner, C. Thiele, A. Volberg

- JUN 2013 ↪ **Extrapolation: Three Lectures in Barcelona**, at *Universitat Autònoma de Barcelona*, 3 hours, Barcelona, Spain.  
by M. Milman
- JUN 2013 ↪ **Spring School: Function Spaces and Inequalities**, 20 hours, Paseky, Czech Republic.  
by L. Diening, J. Duoandikoetxea, C. Pérez, V. Stepanov
- MAY 2013 ↪ **Carleson measures and applications**, at *IMUB*, 4 hours, Barcelona, Spain.  
by R. Zhao
- DEC 2012 ↪ **Heat-flow monotonicity underlying some sharp inequalities in geometric analysis, harmonic analysis and PDE**, at *the University of Barcelona*, 6 hours, Barcelona, Spain.  
by N. Bez
- MAY 2012 ↪ **An Introduction to Embedding Theory**, at *the University of Barcelona*, 6 hours, Barcelona, Spain.  
by V. Kolyada

## Contributions to Seminars and Courses

- APR 2016 ↪ **Analysis Seminar**, at *Brown University*, Providence, USA.  
Talk title: Touchdown for Extrapolation Theory
- OCT 2015 ↪ **Research Group Talk**, at *the Real and Functional Analysis research group meeting*, Barcelona, Spain.  
Talk title: Weighted estimates for the Bochner-Riesz operator and applications
- APR 2015 ↪ **Analysis Seminar**, at *Georgia Institute of Technology*, Atlanta, USA.  
Talk title: Reaching  $L^1$  via Extrapolation Theory
- JAN 2015 ↪ **Short Course**, at *the Real and Functional Analysis research group meeting*, 3 hours, Barcelona, Spain.  
Course title: From Calderón-Zygmund operators to Sparse Operators
- DEC 2014 ↪ **Working Seminar**, at *the University of Birmingham*, Birmingham, United Kingdom.  
Talk title: Endpoint estimates via Extrapolation Theory. Applications to radial Fourier multipliers
- NOV 2013 ↪ **SIMBa Seminar**, at *the University of Barcelona*, Barcelona, Spain.  
Talk title: Extrapolation Theory and almost everywhere convergence of the Fourier series
- OCT 2012 ↪ **SIMBa Seminar**, at *the University of Barcelona*, Barcelona, Spain.  
Talk title: The Hilbert Transform along the Parabola
- MAY 2012 ↪ **Research Group Talk**, at *the Real and Functional Analysis research group meeting*, Barcelona, Spain.  
Talk title: Fixed Point Theorems
- MAR 2012 ↪ **Functional, Harmonic and Complex Analysis Seminar**, at *the University of Barcelona*, Barcelona, Spain.  
Talk title: Invariant subspaces for the shift operator
- NOV 2011 ↪ **Research Group Talk**, at *the Real and Functional Analysis research group meeting*, Barcelona, Spain.  
Talk title: The Invariant Subspace Problem
- MAR 2011 ↪ **MQO Seminar**, at *the II MQO meeting for young mathematicians*, Barcelona, Spain.  
Talk title: Lomonosov's Theorem on Invariant Subspaces

## Contributions to Conferences

- JAN 2016 ↪ **European Study Group with Industry**, at the Centre de Recerca Matemàtica, Bellaterra, Spain.  
**Working Group** – Topic: Developing a mathematical model to prevent burglaries in Catalonia
- SEP 2015 ↪ **III Young Researchers Conference of the RSME**, at *the University of Murcia*, Murcia, Spain.  
**Short Talk** – Talk title: Borderline Variants of the Muckenhoupt-Wheeden Inequality

- MAY 2015 ⇨ **XVI Real and Complex Analysis Conference EARCO**, at the University of Sevilla, Carmona, Spain.  
**Invited Talk** – Talk title: Endpoint estimates, extrapolation theory and the Bochner-Riesz operator
- SEP 2014 ⇨ **XV School on Dyadic Harmonic Analysis and Related Topics**, EMS Summer School, Santander, Spain.  
**Short Talk** – Talk title: Reaching weak-type (1,1) estimates via extrapolation
- APR 2012 ⇨ **II Workshop on Functional Analysis and Applications**, at the University of Murcia, La Manga del Mar Menor, Spain.  
**Relevant Contribution** – Presented Project: Fixed Point Theorems
- AUG 2011 ⇨ **LERU Bright Student Conference**, at the University of Lund, Helsingborg, Sweden.  
**Round Table** – Discussion Topic: Sustainable Infrastructures

## Organization of activities

- MAY 2016 ⇨ **II BGSMath Junior Meeting**, Barcelona, Spain, Webpage: [www.bgsmath.cat](http://www.bgsmath.cat).  
**Conference Organizing Committee**
- DEC 2015 ⇨ **I BGSMath Junior Meeting**, Barcelona, Spain, Webpage: [www.bgsmath.cat](http://www.bgsmath.cat).  
**Conference Organizing Committee**
- 2013 – PRESENT ⇨ **Seminar SIMBa**, Barcelona, Spain, Webpage: [www.ub.edu/simba](http://www.ub.edu/simba).  
**Organizer of the Analysis Section**
- JUL 2011 ⇨ **The Millennium Prize Problems Conference**, to celebrate the 100th anniversary of the RSME, at the University of Barcelona, Barcelona, Spain.  
**Organizing Committee Support**

## Other activities

- JAN 2016 ⇨ **Collaboration in a project with the Mossos d'Esquadra regional police**, at Centre de Recerca Matemàtica, Bellaterra, Spain.  
Project: Developing a mathematical model to prevent burglaries in Catalonia
- MAR 2014 ⇨ **Participation in the Science Area of the Education Fair of Barcelona**, representing the University of Barcelona, Barcelona, Spain.  
Presented Topic: The Spectrum of Light and Fourier Analysis
- NOV 2013 ⇨ **Participation in the Workshops for High-School Students**, at the University of Barcelona, Barcelona, Spain.  
Topic: Conics and Quadrics - Building Mathematics
- MAR 2013 ⇨ **Collaboration in the development of the XVIII Cangur Math Contest**, at the University of Barcelona, Barcelona, Spain.

## Merits

### Grants and Fellowships

- 2015 **Grant for a Research Stay**, at Georgia Institute of Technology.  
By the Ferran Sunyer i Balaguer Foundation
- 2014 **Grant for a Research Stay**, at the University of Birmingham.  
By the Spanish Government (FPU program)
- 2013 – 2016 **FPU Fellowship for Graduate Studies**.  
By the Spanish Government
- 2011 – 2012 **Introduction-to-Research Fellowship**.  
By the Institute of Mathematics at the University of Barcelona IMUB

### Prizes and Distinctions

- 2017 **Prize for the Best Academic Record**, in the Ph.D. in Mathematics.  
By the University of Barcelona







- 2013 **Prize for the Best Academic Record, in the M.Sc. in Advanced and Professional Mathematics.**  
By the University of Barcelona
- 2012 **Prize for the Best Academic Record, in the B.Sc. in Mathematics.**  
By the University of Barcelona
- 2010 **August Palanques Prize, in Mathematics.**  
By the University of Barcelona
- 2007 **Caixa de Manresa Distinction, for Academic Excellence.**  
By the Caixa de Manresa Foundation
- 2007 **High School Extraordinary Distinction, for Academic Excellence.**  
By the Catalan Government
- 2007 **Distinction on the University Entrance Exam.**  
By the Catalan Government
- Language Certificates**
- 2012 **Certificate of Proficiency in English ECPE.**  
By the University of Michigan
- 2007 **C-Level in Catalan.**  
By the Linguistics Department of the Catalan Government
- 2004 **Certificate of Competency in English ECCE.**  
By the University of Michigan

## Publications and Preprints




Available electronically at:

<http://www.maia.ub.edu/~domingo>

### Publications

-  **The return times property for the tail on logarithm-type spaces, M. J. Carro, C. Domingo-Salazar.**  
To appear in Discrete Contin. Dyn. Syst.
-  **Endpoint estimates for Rubio de Francia operators, M. J. Carro, C. Domingo-Salazar.**  
To appear in Trans. Amer. Math. Soc.
-  **Weighted weak-type  $(1, 1)$  estimates for radial Fourier multipliers via extrapolation theory, M. J. Carro, C. Domingo-Salazar.**  
To appear in J. Anal. Math.
-  **Stein's square function  $G_\alpha$  and sparse operators, M. J. Carro, C. Domingo-Salazar, J. Geom. Anal. 27 (2017), 1624–1635.**
-  **Borderline weak type estimates for singular integrals and square functions, C. Domingo-Salazar, M. Lacey, G. Rey, Bull. London Math. Soc. 48 (2016), 63–73.**
-  **Pointwise bounds for integral type operators, M. J. Carro, C. Domingo-Salazar, Math. Nachr. 289 (2016), 1386–1395.**

### Others

-  **Endpoint Estimates via Extrapolation Theory, C. Domingo-Salazar, Ph.D. Thesis.**  
Advisor: M. J. Carro
-  **The Hilbert Transform along the Parabola, C. Domingo-Salazar, M.Sc. Thesis.**  
Advisor: M. J. Carro
-  **The Invariant Subspace Problem, C. Domingo-Salazar, B.Sc. Thesis.**  
Advisors: J. Soria and P. Tradacete