

# JOSEP MIQUEL MARTÍNEZ MARÍN

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## EMPLOYMENT HISTORY

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- **Postdoctoral Researcher**, Università degli Studi di Firenze. Dec 2023 -  
*Within the research project "Group Representation Theory and Applications"*  
*P.I.: Eugenio Giannelli*
- **Personal Investigador en Formación (Postdoc)**, Universitat de València. Jul 2023 - Nov 2023  
*Postdoctoral extension (POP) of PhD grant*
- **Personal Investigador en Formación (PhD)**, Universitat de València. Jun 2021 - Jul 2023  
*PhD grant Atracció de Talent 2020 from Universitat de València*

## EDUCATION

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- **PhD in Mathematics**, Universitat de València. Oct 2019 - Jul 2023  
Thesis: Character degrees, blocks and defect groups - [available here](#)  
Supervisors: Gabriel Navarro, Lucia Sanus.  
Final grade: Sobresaliente cum laude, mención internacional.
- **Master in Advanced Mathematics**, Universitat de Barcelona. Sep 2018 - Sep 2019
- **BSc degree in Mathematics**, Universitat de València. 2014 - 2018

## PUBLICATIONS

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### Submitted

- [9] **On almost  $p$ -rational characters in principal  $p$ -blocks**, A. Maróti, J. M. Martínez, A. A. Schaeffer Fry, C. Vallejo, submitted (2024). <https://arxiv.org/abs/2401.09224>
- [8] **The Alperin Weight Conjecture and the Glauberman correspondence via character triples**. J. M. Martínez, N. Rizo, D. Rossi, submitted (2023). <https://arxiv.org/abs/2311.05536>
- [7] **The blocks with five irreducible characters**. J. M. Martínez, N. Rizo, L. Sanus, submitted (2023). <https://arxiv.org/abs/2306.04267>

### Published

- [6] **Characters of prime power degree in principal blocks**. J. M. Martínez, *Arch. Math. (Basel)* **122**(2) (2024), 133–141
- [5] **Degree divisibility in Alperin–McKay correspondences**. J. M. Martínez, D. Rossi, *J. Pure Appl. Algebra* **227**(12) (2023), Paper No. 107449.
- [4] **The blocks with four irreducible characters**. J. M. Martínez, N. Rizo, L. Sanus, *Bull. London Math. Soc.* **55** (2023), 658–667.
- [3] **Character degrees in blocks and defect groups**. E. Giannelli, J. M. Martínez, A. A. Schaeffer Fry. *J. Algebra* **594** (2022), 170–193.
- [2] **An infinite family of counterexamples to a conjecture on positivity**. J. M. Martínez. *Rend. Semin. Mat. Univ. Padova* **145** (2021), 205–206.
- [1] **Degrees of characters in the principal block**. J. M. Martínez. *J. Algebra* **579** (2021), 195–209.

## TALKS

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### Invited

- **AMS Spring Western Sectional Meeting**, San Francisco State University  
*TBD.* May 2024
- **Finite Groups in Valencia**, online  
*Degrees of characters in the principal block.* Mar 2021

### Contributed

- **Groups in Florence IV**, Università degli Studi di Firenze  
*Alperin's weight conjecture and the Glauberman correspondence.* Upcoming (Jul 2024)
- **Groups in Florence III**, Università degli Studi di Firenze  
*The number of irreducible characters in a Brauer block.* Jul 2022
- **Zassenhaus Groups and Friends Conference**, online  
*The number of irreducible characters in a Brauer block.* May 2022
- **Zassenhaus Groups and Friends Conference**, online  
*Degrees of characters in the principal block.* Jun 2021
- **Postgraduate Group Theory Conference**, online.  
*Degrees of characters in the principal block.* Jan 2021

### Seminars

- Algebra and Logic Seminar, University of Denver  
*TBD.* Upcoming (May 2024)
- Seminar at universitat de València  
*Degree divisibility in character correspondences.* Upcoming (Mar 2024)
- Seminario di Algebra, Università degli Studi di Firenze  
*Degree divisibility in character correspondences.* Oct 2023
- Oberseminar zur Algebra und Algebraischen Kombinatorik, Leibniz Universität Hannover  
*On blocks with few irreducible characters.* May 2023
- Seminar Gruppen und Darstellungen, RPTU (formerly TU Kaiserslautern)  
*Character correspondences and counting conjectures.* Jan 2023
- Seminar at Universidad de Oviedo  
*El número de caracteres en un bloque de Brauer.* Jan 2022
- Seminario de Teoría de Grupos, Instituto de Ciencias Matemáticas (Madrid)  
*Degrees in blocks and defect groups.* Nov 2021

### Posters

- **Counting Conjectures and Beyond**, Isaac Newton Institute, Cambridge, UK  
*Character degrees in blocks and defect groups.* May 2022

## GRANTS AND AWARDS

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- Research in Paris - Institut Henri Poincaré  
Funding for a two week research visit with Noelia Rizo and Damiano Rossi Aug 2023

- Borsa Ferran Sunyer i Balaguer - Institut d'Estudis Catalans Apr 2023  
Funding for a two month visit to Università degli Studi di Firenze
- Oberwolfach Leibniz Graduate Students travel grant Apr 2022  
Funding to attend Workshop 2316 - Representations of Finite Groups
- PhD scholarship from the *Atracció de talent (2020)* program, Universitat de València Jun 2021  
Includes a postdoctoral extension of 1 year
- Introduction to research grant - Universidad del País Vasco Sep 2018  
Supervised by Jon González-Sánchez

## RESEARCH VISITS

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- University of Denver Upcoming (May 2024)  
Invited by Mandi Schaeffer Fry
- Institut Henri Poincaré Upcoming (Apr 2024)  
Within the Research in Paris program
- Universitat de València Upcoming (Mar 2024)  
Invited by Noelia Rizo
- Università degli Studi di Firenze Sep 1 - Nov 1 2023  
Invited by Carolina Vallejo Rodríguez
- Mathematisches Forschungsinstitut Oberwolfach Apr 16 - 21 2023  
Invited to Oberwolfach Workshop 2316 - Representations of Finite Groups
- Rheinland-Pfälzische Technische Universität (formerly TU Kaiserslautern) Jan 2 - Apr 2 2023  
Invited by Gunter Malle
- Instituto de Ciencias Matemáticas (Madrid) Sep 20 - 24 2022  
Invited by Leo Margolis
- Universidad de Oviedo Jan 24 - 28 2022  
Invited by Noelia Rizo

## TEACHING

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At Università degli Studi di Firenze

- **Spring 2024** Modular representation theory of finite groups  
*PhD Course*

At Universitat de València

- **Fall 2022** Matemàtica bàsica  
*Problem sessions*
- **Spring 2022** Algebra Lineal i Geometria I  
*Problem sessions*
- **Fall 2021** Matemàtica bàsica  
*Problem sessions*

## OTHER

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- Organization of [Seminari Predoc](#) Oct 2021 - Jun 2023  
A seminar for PhD students in València or visiting to talk about their research.
- Video Conference Assistant and Reporter Apr 2023  
Oberwolfach Workshop 2316 - Representations of Finite Groups

- Refereeing work for Communications in Algebra