

JOSEP MIQUEL MARTÍNEZ MARÍN

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EMPLOYMENT HISTORY

- **Profesor Ayudante Doctor**, Universitat de València. Oct 2024 -
- **Postdoctoral Researcher**, Università degli Studi di Firenze. Dec 2023 - Oct 2024
Within the research project “PRIN 2022 - 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

- **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

Submitted

- [12] **Sum of the squares of the p' -character degrees**, N. N. Hung, J. M. Martínez, G. Navarro, (2025). [arXiv](#)
- [11] **Alperin’s bound and normal Sylow subgroups**. Z. Feng, J. M. Martínez, D. Rossi, (2025). [arXiv](#)

In press

- [10] **The continuity of p -rationality of characters and the principal block**. G. Malle, J. M. Martínez, C. Vallejo, to appear in *Proc. Amer. Math. Soc.* (2025). [arXiv](#)
- [9] **The Alperin Weight Conjecture and the Glauberman correspondence via character triples**. J. M. Martínez, N. Rizo, D. Rossi, to appear in *Algebra Number Theory* (2025). [arXiv](#)
- [8] **On almost p -rational characters in principal blocks**, A. Maróti, J. M. Martínez, A. A. Schaeffer Fry, C. Vallejo, to appear in *Publ. Mat.* (2024). [arXiv](#)

Published

- [7] **Character degrees and local subgroups revisited**. J. M. Martínez, *J. Algebra* **676** (2025), 311–317.
- [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

Invited

- **VII Congreso de Jóvenes Investigadores de la RSME**, Universidad del País Vasco Jan 2025
Characters and normal Sylow subgroups.
- **AMS Spring Western Sectional Meeting**, San Francisco State University May 2024
Alperin's weight conjecture and the Glauberman correspondence
- **Finite Groups in Valencia**, online Mar 2021
Degrees of characters in the principal block.

Contributed

- **Group Representation Theory**, Università degli Studi di Firenze Jun 2025
Characters and normal Sylow subgroups.
- **Groups and Rings Talking**, Universidad de Murcia May 2025
Characters and normal Sylow subgroups.
- **Groups in Florence IV**, Università degli Studi di Firenze Jul 2024
Alperin's weight conjecture and the Glauberman correspondence.
- **Groups and Algebras in Bicocca for Young Algebrists**, Università di Milano-Bicocca Jun 2024
Alperin's weight conjecture and the Glauberman correspondence.
- **Groups in Florence III**, Università degli Studi di Firenze Jul 2022
The number of irreducible characters in a Brauer block.
- **Zassenhaus Groups and Friends Conference**, online May 2022
The number of irreducible characters in a Brauer block.
- **Zassenhaus Groups and Friends Conference**, online Jun 2021
Degrees of characters in the principal block.
- **Postgraduate Group Theory Conference**, online Jan 2021
Degrees of characters in the principal block.

Seminars

- **Al@Bicocca**, Università di Milano-Bicocca Oct 2024
Characters and normal Sylow subgroups.
- **Seminar at Bergische Universität Wuppertal** Jul 2024
On the reduction theorems for counting conjectures.
- **Algebra and Logic Seminar**, University of Denver May 2024
Counting conjectures and Galois action.
- **Seminar at Universitat de València** Mar 2024
Degree divisibility in character correspondences.

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

Posters

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

GRANTS AND AWARDS

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

- Bergische Universität Wuppertal Jul 8 - 12 2024
Invited by Britta Späth
- University of Denver May 6 - 12 2024
Invited by Mandi Schaeffer Fry
- Simons Laufer Mathematical Sciences Institute (formerly MSRI) May 1 - 3 2024
Participant in workshop Advances in Lie Theory, Representation Theory and Combinatorics: Inspired by the work of Georgia M. Benkart
- Institut Henri Poincaré Apr 2 - 13 2024
Within the Research in Paris program
- Universitat de València Mar 6 - 11 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

At Universitat de València (2024–)

- **Fall 2024** Estructures algebraïques
Problem sessions
- **Fall 2024 and Spring 2025** Àlgebra Lineal i Geometria I
Problem sessions

At Università degli Studi di Firenze

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

At Universitat de València (2021–2023)

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

THESIS SUPERVISION

- Pablo Selma Gracia, Bachelor Thesis (2024)
The number of Sylow p -subgroups in a p -solvable group
Final grade: 9.5/10
Universitat de València, co-supervised with Noelia Rizo.

OTHER

- Organization of [Journal Club](#) Apr 2025 -
Reading group with rotating themes aimed at PhD students.
- Organization of [Characters and Blocks of Finite Groups](#) Jan 2025
Conference in honor of Gabriel Navarro's 60th birthday.
- 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