

# Pablo Manuel Berná Larrosa

---

[CUNEF UNIVERSIDAD](#)  
Almansa 101, 28040 Madrid Spain  
[pablo.berna@cunef.edu](mailto:pablo.berna@cunef.edu)  
[CUNEF Website](#)  
[Google Scholar](#)  
[ORCID](#)

---

## EMPLOYMENT

Since 2022, I have been an Assistant Professor on Tenure Track in the Department of Mathematics at CUNEF Universidad. Prior to that, from 2020 to 2022, I was a Collaborating Doctor Professor at Universidad CEU San Pablo. Between 2017 and 2020, I worked as a pre-doctoral researcher at the Universidad Autónoma de Madrid. Earlier in my career, from 2015 to 2016, I served as a Higher Research Technician at the Universidad Politécnica de Valencia.

## EDUCATION

- PhD in Mathematics from the Universidad Autónoma de Madrid (2019).
- Master's degree in Mathematical Research from the Universidad de Valencia (2015).
- Bachelor's degree in Mathematics from the Universidad de Alicante (2014).

## FIELDS OF INTEREST

Approximation Theory and Functional Analysis

## PUBLICATIONS

Berná, Pablo M.; Chu, Hung V.; Hernández, Eugenio: "On approximation spaces and greedy-type bases", *Ann. Funct. Anal.*, 16:7 (2025).

Albiac, Fernando; Ansorena, José L.; Berasategui, Miguel; Berná, Pablo M.; Lassalle, Silvia: "Bidemocratic bases and their connections with other greedy-type bases", *Constr. Approx.* 57, 125-160 (2023).

Albiac, Fernando; Ansorena, José L.; Berná, Pablo M.: “New parameters and Lebesgue-type estimates in greedy approximation”, *Forum of Mathematics Sigma* 10, e113, 1-39 (2022).

Berasategui, Miguel; Berná, Pablo M.: “Quasi-greedy bases for sequences with gaps”, *Nonlinear Analysis* 208, 112294 (2021).

Albiac, Fernando; Ansorena, José L.; Berná, Pablo M.; Wojtaszczyk, P.: “Greedy approximation for biorthogonal systems in quasi-Banach spaces”, *Dissert. Math.* 560, 1-88 (2021).

## WORKING PAPERS

Berasategui, Miguel; Berná, Pablo M.; Dilworth, S. J.; Kutzarova, Denka: “Summability Methods for the greedy algorithm in Banach spaces”.

Berasategui, Miguel; Berná, Pablo M.; García, Andrea: “Approximation spaces, greedy classes and Lorentz spaces”.

## SELECTED ACADEMIC HONOURS AND GRANTS

Grant from the Clay Mathematics Institute to participate in some courses celebrated at Centre de Recerca Matemàtica (Barcelona), May-June 2016.

Pre-doctoral contract from the Spanish Ministry of Economy and Competitiveness to carry out the PhD thesis associated with the research project at the Universidad Autónoma de Madrid (UAM), 2018-2020.

## SELECTED PRESENTATIONS

### CONFERENCES

VII Congreso de Jóvenes Investigadores de la Real Sociedad Matemática Española; Sub-Riemannian Geometry Harmonic Analysis, PDEs and Applications; International E-conference on Mathematical and Statistical Sciences; New bridges between Mathematics and Data Science; Approximation and Discretization.

### SEMINARS

Analysis Seminar of the University of Illinois at Urbana-Champaign; Seminario Rubio de Francia; Seminario de Matemática Aplicada y Estadística.

## PROFESSIONAL ACTIVITIES

Since 2025, I am the Deputy Secretary of the Spanish Royal Mathematical Society.