

Elona Agora

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EMPLOYMENT

Assistant Professor on Tenure Track, Dept. of Mathematics, CUNEF Universidad (2022-present)

EDUCATION

PhD in Mathematics, Universidad de Barcelona, 2012

MSc in Advanced and Professional Mathematics, Universidad de Barcelona, 2007

BSc in Mathematics, Aristotle University of Thessaloniki, 2005

FIELDS OF INTEREST

Fourier analysis, signal processing, and weighted inequalities.

PUBLICATIONS

1. Agora, Elona; Antezana, Jorge; Carro, María Jesús and Baena, Sergi. "Revisiting Yano extrapolation theory", *J. Fourier Anal. Appl.* 28, no. 23, 1–12, 2022.
2. Agora, Elona; Antezana, Jorge; Carro, María Jesús and Baena, Sergi, "From weak-type weighted inequality to pointwise estimate for the decreasing rearrangement", *Journal of Geometric Analysis* 32, no. 56, 1–23, 2022.
3. Agora, Elona; Antezana, Jorge and Kolountzakis, Mihalís, "Tiling functions and Gabor orthonormal basis", *Appl. Comput. Harmon. Anal.* 48, 96–122, 2020.
4. Agora, Elona; Antezana, Jorge; Cabrelli, Carlos and Matei, Basarab, "Existence of quasicrystals and universal stable sampling and interpolation in LCA groups", *Trans. Amer. Math. Soc.* 372, 4647–4674, 2019.
5. Agora, Elona; Grepstad, Sigrid and Kolountzakis, Mihalís, "Spectra for cubes in products of finite cyclic groups", *Proc. Amer. Math.* 146, 2417–2423, 2018.

6. Agora, Elona; Antezana, Jorge and Carro, María Jesús, “Weak-type boundedness of the Hardy-Littlewood maximal operator on weighted Lorentz spaces”, *J. Fourier Anal. Appl.* 22, 1431–1439, 2016.
7. Agora, Elona; Antezana, Jorge and Cabrelli, Carlos, “Multi-tiling sets, Riesz bases, and sampling near the critical density in LCA groups”, *Adv. in Math.*, vol. 285, 454–477, 2015.
8. Agora, Elona; Antezana, Jorge; Carro, María Jesús and Soria, Javier, “Lorentz-Shimogaki and Boyd Theorems for weighted Lorentz spaces”, *J. London Math. Soc.* 89, 321–336, 2014.
9. Agora, Elona; Carro, María Jesús and Soria, Javier, “Complete characterization of the weak-type boundedness of the Hilbert transform on weighted Lorentz spaces”, *J. Fourier Anal. Appl.* 19, 712–730, 2013.
10. Agora, Elona; Carro, María Jesús and Soria, Javier, “Boundedness of the Hilbert transform on weighted Lorentz spaces”, *J. Math. Anal. Appl.* 395, 218–229, 2012.

WORKING PAPERS

1. On wavelet bases on function spaces
2. Sampling and interpolation in translation-invariant spaces

SELECTED ACADEMIC HONOURS AND GRANTS

Poster Award, ICWM 2014 – International Congress of Women Mathematicians, Seoul, South Korea; **Ferran Sunyer i Balaguer Grant**, for a research stay at Karlstad University, Sweden, 2012; **Open Arms Travel Grant**, for participation in ICM & (WM)2 – World Meeting for Women in Mathematics, Rio de Janeiro, Brazil, 2018; **Together Travel Grant**, for participation in ICM & ICWM, Seoul, South Korea, 2014; **Grant** Fourier Analysis and Application, PID2019 – 105599GB – I00 (2020-2024).

SELECTED PRESENTATIONS

CONFERENCES: Poster presentation at SampTA, Austria, 2025. Oral presentations at Analysis & Beyond I, Brasil, 2025, and the International Conference on Sobolev Inequalities and Related Topics, CUNEF Universidad, Spain, 2025.

SEMINARS: Seminario de Análisis, Instituto Argentino de Matemática, Argentina, 2025; Seminario de Análisis, Universidad de Murcia, Spain, 2023; Seminario de Análisis Matemático Aplicado, Universidad Carlos III de Madrid, Spain, 2022; Analysis Seminar, Aristotle University of Thessaloniki, Greece, 2021; Colloquium de Análisis Matemático, Universidad Complutense de Madrid, Spain, 2020.

PROFESSIONAL ACTIVITIES

Researcher, CONICET, Argentina, 2017–2022.

Postdoctoral Researcher, IAM-CONICET, Argentina, 2015–2017

Postdoctoral Researcher, University of Crete, Greece, 2015

Postdoctoral Researcher, IAM-CONICET, Argentina, 2013–2015

FPU Predoctoral Fellow, Universidad de Barcelona, Spain, 2007–2012