

Pedro R. López-Gómez

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EMPLOYMENT

- Jan. 2026 – Present: **Assistant professor**, CUNEF Universidad.
- June 2025 – Jan. 2026: **Postdoctoral researcher**, Universidad de Cantabria.
- Apr. 2022 – June 2025: **Predoctoral researcher**, Universidad de Cantabria.
- June 2021 – Mar. 2022: **Research contract**, Universidad de Cantabria.

EDUCATION

- **PhD in Mathematics**, Universidad de Cantabria, 2025.
- **MSc in Mathematics and Computer Science**, Universidad de Cantabria, 2021.
- **BSc in Mathematics**, Universidad de Cantabria, 2020.
- **BSc in Physics**, Universidad de Cantabria, 2019.

FIELDS OF INTEREST

Distribution of points on manifolds, energy minimization, discrepancy, determinantal point processes.

PUBLICATIONS

- Beltrán, C., Carrasco, F., Ferizović, D., & López-Gómez, P. R. (2026), Points on $SO(3)$ with low logarithmic energy. *Constructive Approximation* (accepted).
- Ehler, M., Karner, C., & López-Gómez, P. R. (2025). Asymptotically optimal t-design curves on the Grassmann manifold. En: *2025 International Conference on Sampling Theory and Applications (SampTA)* (pp. 1–5). IEEE.

- Beltrán, C., Ferizović, D., & López-Gómez, P. R. (2025). Measure-preserving mappings from the unit cube to some symmetric spaces. *Journal of Approximation Theory*, 308, 106145.
- Beltrán, C., Etayo, U.; López-Gómez, P. R. (2023). Low-energy points on the sphere and the real projective plane. *Journal of Complexity*, 76, 101742.

WORKING PAPERS

- Etayo, U. & López-Gómez, P. R. (2024). Minimal Riesz and logarithmic energies on the Grassmannian $Gr_{2,4}$. Preprint: arXiv:2501.00424.

SELECTED ACADEMIC HONOURS AND GRANTS

- **Best Poster Award** in the *Congreso Bienal de la Real Sociedad Matemática Española*, Ciudad Real (Spain), Jan. 2022.
- **Predoctoral FPI fellowship** (2021–2025), funded by the Agencia Estatal de Investigación (Spanish government).

SELECTED PRESENTATIONS

CONFERENCES

15th International Conference on Sampling Theory and Applications (SampTA), Vienna (Austria), July 2025; *Constructive Functions 2025*, Nashville (USA), May 2025; *VII Congreso de Jóvenes Investigadores de la RSME*, Bilbao (Spain), Jan. 2025; *XXVIII CEDYA / XVIII CMA conference*, Bilbao (Spain), June 2024; *Congreso Bienal de la Real Sociedad Matemática Española*, Pamplona (Spain), Jan. 2024; *FoCM Conference*, Paris (France), 2023; *Sphere packings, coverings, and spherical codes SPCSC2023*, Sofia (Bulgaria), May 2023; *International Conference on Approximation Theory and Beyond*, Nashville (USA), May 2023; *Encuentro conjunto RSME-UMA*, Ronda (Spain), Dec. 2022; *Congreso Bienal de la Real Sociedad Matemática Española*, Ciudad Real (Spain), Jan. 2022.

SEMINARS

Seminar of the Mathematics and Quantitative Methods Department, CUNEF Universidad, Feb. 2025; *Seminar of the Applied Harmonic Analysis Cluster*, University of Vienna, Nov. 2024.