

Alejandro Poveda

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EMPLOYMENT

- (2026-) Assistant Professor on Tenure Track – Dep of Mathematics – CUNEF Universidad
- (2026-) Alexander von Humboldt Fellow – Hamburg University.
- (2025-2026) Assistant Professor – Universitat de Barcelona.
- (2022-2025) Postdoctoral Fellow – Harvard University (CMSA).
- (2025) Lecturer – Harvard University (Department of Mathematics).
- (2024) Teaching Fellow – Harvard University (Department of Mathematics).
- (2020-2022) Postdoctoral Fellow – Einstein Institute of Mathematics (HUI).
- (2016-2020) FPU Fellow – Universitat de Barcelona.

EDUCATION

- (2016-2020) Ph.D. in Mathematics – Universitat de Barcelona.
- (2014-2015) Ms.C. in Advance Mathematics – Universidad de Murcia.
- (2010-2014) Degree in Mathematics – Universitat de València.

FIELDS OF INTEREST

Set Theory. Mathematical Logic. Applications of Set Theory to Analysis, Topology and Algebra.

PUBLICATIONS

1) Avilés, Antonio; Martínez-Cervantes, Gonzalo; Poveda, Alejandro; Sáenz, Luis: “A Banach space with L -orthogonal sequences but without L -orthogonal elements,” *Advances in Mathematics*, Vol. 478, Article 110391, 2025.

2) Poveda, Alejandro: “Axiom $\mathcal{A}$ and supercompactness,” *Advances in Mathematics*, Vol. 459, Article 110027, 2024.

- 3) Poveda, Alejandro; Rinot, Assaf; Sinapova, Dima: “Sigma-Prikry forcing III: Down to $\aleph_\omega$,” *Advances in Mathematics*, Vol. 435, Part A, Article 109377, 2023.
- 4) Goldberg, Gabriel; Poveda, Alejandro: “Compactness phenomena in HOD,” *Forum of Mathematics, Sigma*, Vol. 13, Article e118, 2025.
- 5) Hayut, Yair; Poveda, Alejandro: “The gluing property,” *Journal of Mathematical Logic*, Vol. 26, No. 1, Article 2450030, 2026.
- 6) Benhamou, Tom; Garti, Shimon; Poveda, Alejandro: “Negating the Galvin property,” *Journal of the London Mathematical Society*, Vol. 108, No. 1, pp. 190–237, 2023.
- 7) Poveda, Alejandro; Rinot, Assaf; Sinapova, Dima: “Sigma-Prikry forcing II: Iteration Scheme,” *Journal of Mathematical Logic*, Vol. 22, No. 3, Article 2150019, 2022.
- 8) Poveda, Alejandro; Rinot, Assaf; Sinapova, Dima: “Sigma-Prikry forcing I: The Axioms,” *Canadian Journal of Mathematics*, Vol. 73, No. 5, pp. 1205–1238, 2021.
- 9) Poveda, Alejandro: “Two results on extendible cardinals,” *Proceedings of the American Mathematical Society*, Vol. 152, No. 6, pp. 2669–2681, 2024.
- 10) Cortés-Izurdiaga, Manuel; Poveda, Alejandro: “Almost Free Modules, Perfect Decomposition and Enochs’ Conjecture,” *Mediterranean Journal of Mathematics*, Vol. 22, No. 2, Article 51, 2025.

WORKING PAPERS

- 1) Combinatorics in Higher Solovay models (with S. Thei).
- 2) On HOD supercompactness.
- 3) More on compactness phenomena in HOD (with T. Benhamou, J. Cummings, G. Goldberg and Y. Hayut)
- 4) Exacting Cardinals and forcing (with P. Lücke)
- 5) NPT and almost free modules (with M. Cortés-Izurdiaga)

SELECTED ACADEMIC HONOURS AND GRANTS

- Extraordinary Doctorate Award – Universitat de Barcelona.
- Fellow of the Alexander von Humboldt foundation.
- Early Research Career Award (Mention of honor) – European Set Theory Society.
- Coordinator of the SQuaRE project “Compactness phenomena and ultrafilter combinatorics”.

SELECTED PRESENTATIONS

CONFERENCES

More than 40 invited addresses in the last 5 years: 26th Midrasha Mathematicae Lectures (Tutorial Speaker); Simons Semester "Gödel's Program" (Plenary Speaker); ASL Logic Colloquium (Invited Speaker); Colloquium of the Kurt Gödel Society (Plenary Speaker); **A conference on large cardinals, forcing, and related topics (Plenary Speaker); North American Meeting of the ASL (Plenary Speaker); Biannual Meeting of the European Set Theory Society (Plenary Speaker); JMM Special Session Speaker (Invited Speaker); Simposio Lationamericano de Lógica Matemática (Invited Speaker); Oberwolfach meeting on Set Theory (Invited speaker); Annual meeting of the Israel Mathematical Union (Invited Speaker); Joint Meeting of the German and Austrian Mathematical Societies (Invited Speaker).**

SEMINARS

Seminar presentations at Harvard University, Hebrew University of Jerusalem, Bar-Ilan University, University of Barcelona, Tel Aviv University, Rutgers University, Carnegie Mellon University, Cornell University, UC Irvine, UChicago, UFlorida, Virginia Commonwealth University, University of Illinois at Chicago, TU Wien, etc.

PROFESSIONAL ACTIVITIES

Lead organizer of the **Harvard Logic Colloquium**, lead organizer of the **Harvard CMSA Colloquium**, organizer of the **Harvard Undergraduate Logic Seminar**, organizing committee member for the **Young Set Theory Workshop** and **Barcelona Mathematical Days**, evaluator for the **FWF ESPRIT Programme**, moderator for **Harvard's Mathematics and Machine Learning Program**, committee member of **Harvard Math Community**, outreach speaker on set theory and the foundations of mathematics (IMUB, Bojos per les Matemàtiques, Matefest, etc), advisor and mentor of several undergraduate, master's, and graduate students (Harvard, Tufts, UHamburg, Cambridge, UB, etc).