

Jaume de Dios Pont

Curriculum Vitae

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Employment

Education

Postgraduate Awards and Scholarships

Papers and Preprints

Invited Talks

Talks are grouped by topic, even when the covered material changed between instances.

Research talks

Some Extreme Regimes of the Laplace Operator

2026 Simons Collaboration on Localization of Waves Annual Meeting (19 Feb '26), NYU CDS MaD Seminar (11 Feb '26), Joint Mathematics Meetings 2026 (Washington, D.C.) (Jan 2026), Instituto de Ciencias Matemáticas (ICMAT) Seminar (Sep 2025), ISM Discovery School — Interactions between Convex Geometry and Spectral Analysis (Montreal) (31 Jul '25), UK Spectral Theory Network Workshop (University of Reading) (Aug 2025), Workshop on Spectral Geometry, PDEs and Mathematical Physics (FernUni Hagen) (Jul 2025), Fourier Analysis and Beyond I (IMPA, Rio de Janeiro) (Jul 2025), ETHZ Analysis Seminar (hosted by Yuansi Chen) (May 2025), LSEC Seminar (Apr 2025), University of Edinburgh Analysis Seminar (1 Mar '25), Lehigh University Mathematics Seminar (17 Mar '25), Institut Camille Jordan Analysis Seminar (Lyon) (10 Mar '25), Spectral Geometry in the Clouds (17 Mar '25), MPS Workshop on Computation in Mathematics (Flatiron Institute) (Feb 2025), Simons Collaboration on Localization of Waves Annual Meeting — Poster Session (Flatiron Institute) (Feb 2025), Virginia Tech Analysis Seminar (Feb 2025), Seminari d'Anàlisi UB-UAB (Jan 2025), ETHZ Analysis Seminar (Oct 2024), Hausdorff Center for Mathematics Colloquium (Bonn) (Oct 2024), 2024 Simons Collaboration on Localization of Waves Meeting (Oct 2024),

Sampling the hardest simple random variables

CRM — Mathematical Foundations of Machine Learning (Barcelona) (Jan 2026), Hausdorff Research Institute for Mathematics — Boolean Analysis in Computer Science (HIM, Bonn) (Oct 2024), BIRS-IMAG Workshop (Granada) (Jun 2024), UCLA Analysis Seminar (May 2024), Hausdorff Research Institute for Mathematics — Synergies between Probability, Geometric Analysis and Stochastic Geometry (HIM, Bonn) (Jan 2024), Hausdorff Research Institute for Mathematics — Synergies between Probability, Geometric Analysis and Stochastic Geometry (HIM, Bonn) (Jan 2024), University of Rochester Computer Science Seminar (May 2023), NYU Courant Analysis Seminar (Mar 2023), Microsoft Research Theory Seminar (7 Dec '22), NYU MaD Group Meeting (12 Dec '22),

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Uniformity for polynomial curves

NTNU Analysis Seminar (Trondheim) (Oct 2023), Rutgers University Analysis Seminar (Oct 2023), University of Rochester Combinatorics Seminar (May 2023), University of Minnesota PDE Seminar (15 Sep '22), Bilbao Analysis and PDE Seminar (BCAM) (9 Mar '22), UAB Analysis Seminar (Universitat Autònoma de Barcelona) (7 Mar '22), University of Bristol's Analysis and Geometry Seminar (17 Feb '22), UK Virtual Harmonic Analysis Seminar (Fourier 2.0) (20 Oct '21),

Power-type cancellation for the simplex Hilbert transform

Kopp Summer School Reading Group (Bonn) (Sep 2023),

Decoupling for Cantor sets

Harmonic Analysis and Fractal Sets Conference (HAFS, Columbus OH) (Mar 2023), Fourier Restriction Online 2021 (12 Mar '21),

Uniform boundedness for certain operators parametrized by polynomial curves

UW Madison Analysis Seminar (29 Nov '22), Harmonic Analysis on Manifolds Summer School (UW Madison) (Aug 2022), ETHZ Analysis Seminar (15 Mar '22), Probability and Analysis Webinar (PAW) (16 Aug '21), UC Davis Student-Run Analysis and PDE Seminar (11 Feb '21), Seminari d'Anàlisi UB-UAB (9 Nov '20), Online Analysis Research Seminar (OARS) (7 Dec '20),

A Function Space Perspective for Regularised and Overparametrised Shallow ReLU Networks

NYU, MaD Group Meeting (19 Oct '20),

Expository talks

Generació de variables aleatòries

Valentia Matemàtica (Jun 2025),

Decoupling: From partial differential equations to number theory

Microsoft Research Theory Seminar (21 Jul '23), Kopp Summer School Reading Group (Bonn) (Oct 2022), AIM Workshop: Analysis on the Hypercube with Applications to Quantum Computing (Jun 2022), Brascamp-Lieb Summer School Reading Group (Kopp, Germany) (Sep 2021), UCLA Participating Analysis Seminar (Reading Group) (Nov 2021), SIMBa Seminar (UB / BGSMATH) (21 Oct '20),

———— Research Visits (> 1 week)

———— Teaching Experience

ETH Zurich (Main Instructor)

- **Formalizing Mathematics in Lean** Spring 2025

ETH Zurich (Teaching Assistant)

- **Differential Geometry** Spring 2024

UCLA (Teaching Assistant)

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| ◦ Math 131A (Real Analysis) Fall 2020; Spring 2022 | ◦ Math 33B (Linear Algebra II) Spring 2021 |
| ◦ Math 134 (ODE I) Fall 2021 | ◦ Math 32A (Calculus I) Fall 2020; Winter 2021 |
| ◦ Math 135 (ODE II / PDE) Fall 2021 | ◦ Math 32B (Calculus II) Winter 2021 |

———— Reviewing

Reviewer for: Add reviewing and service activities.

———— Misc. Coding Skills

- Proficient in Python (incl. Jax, NumPy/SciPy/Matplotlib) and \LaTeX
- Git/Version Control