

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.) (5 Jan '26), Instituto de Ciencias Matemáticas (ICMAT) Seminar (1 Sep '25), ISM Discovery School — Interactions between Convex Geometry and Spectral Analysis (Montreal) (31 Jul '25), UK Spectral Theory Network Workshop (University of Reading) (1 Aug '25), Workshop on Spectral Geometry, PDEs and Mathematical Physics (FernUni Hagen) (1 Jul '25), Fourier Analysis and Beyond I (IMPA, Rio de Janeiro) (22 Jul '25), ETHZ Analysis Seminar (hosted by Yuansi Chen) (1 May '25), LSEC Seminar (1 Apr '25), 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) (18 Feb '25), Simons Collaboration on Localization of Waves Annual Meeting — Poster Session (Flatiron Institute) (20 Feb '25), Virginia Tech Analysis Seminar (25 Feb '25), Seminari d'Anàlisi UB-UAB (16 Jan '25), ETHZ Analysis Seminar (1 Oct '24), Hausdorff Center for Mathematics Colloquium (Bonn) (1 Oct '24), 2024 Simons Collaboration on Localization of Waves Meeting (1 Oct '24),

Sampling the hardest simple random variables

CRM — Mathematical Foundations of Machine Learning (Barcelona) (8 Jan '26), Hausdorff Research Institute for Mathematics — Boolean Analysis in Computer Science (HIM, Bonn) (1 Oct '24), BIRS-IMAG Workshop (Granada) (11 Jun '24), UCLA Analysis Seminar (9 May '24), Hausdorff Research Institute for Mathematics — Synergies between Probability, Geometric Analysis and Stochastic Geometry (HIM, Bonn) (1 Jan '24), Hausdorff Research Institute for Mathematics — Synergies between Probability, Geometric Analysis and Stochastic Geometry (HIM, Bonn) (1 Jan '24), University of Rochester Computer Science Seminar (24 May '23), NYU Courant Analysis Seminar (1 Mar '23), Microsoft Research Theory Seminar (7 Dec '22), NYU MaD Group Meeting (12 Dec '22),

Uniformity for polynomial curves

NTNU Analysis Seminar (Trondheim) (24 Oct '23), Rutgers University Analysis Seminar (1 Oct '23), University of Rochester Combinatorics Seminar (23 May '23), 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) (28 Sep '23),

Decoupling for Cantor sets

Harmonic Analysis and Fractal Sets Conference (HAFS, Columbus OH) (1 Mar '23), 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) (3 Aug '22), 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 (16 Jun '25),

Decoupling: From partial differential equations to number theory

Microsoft Research Theory Seminar (21 Jul '23), Kopp Summer School Reading Group (Bonn) (6 Oct '22), AIM Workshop: Analysis on the Hypercube with Applications to Quantum Computing (6 Jun '22), Brascamp-Lieb Summer School Reading Group (Kopp, Germany) (30 Sep '21), UCLA Participating Analysis Seminar (Reading Group) (16 Nov '21), 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