

# Jaume de Dios Pont

## Curriculum Vitae

60 5th Avenue  
New York, NY 10011  
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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)**

- o Formalizing Mathematics in Lean Spring 2025

### **ETH Zurich (Teaching Assistant)**

- o Differential Geometry Spring 2024

### **UCLA (Teaching Assistant)**

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

## **Reviewing**

Reviewer for: Add reviewing and service activities.

## **Misc. Coding Skills**

- o Proficient in Python (incl. Jax, NumPy/SciPy/Matplotlib) LATEX
- o Git/Version Control