# Thomas Letendre
**Assistant Professor in Mathematics**

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## Positions

**2021–:** assistant professor (maitre de conférences) at Université Paris–Saclay.

**2020–2021:** postdoctoral researcher at Université Paris–Saclay.

**2018–2020:** postdoctoral researcher at Sorbonne Université.

**2015–2018:** postdoctoral researcher (agrégé-préparateur) at ENS de Lyon.

**2012–2015:** Ph.D. student at Université Claude Bernard (Lyon 1).

## Education

**2016:** Mathematics Ph.D. from Université de Lyon. Advisor: Damien Gayet.
**Dissertation:** *Contributions to the study of random submanifolds*.

**2012:** Agrégation (advanced teaching qualification exam), Mathematics.

## Publications

### Preprints

1. M. Ancona and T. Letendre, *Multijet bundles and application to the finiteness of moments for zeros of Gaussian fields*, 2023. arxiv.org/abs/2307.10659.

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### Research papers

6. M. Ancona and T. Letendre, *Zeros of smooth stationary Gaussian processes*, Electron. J. Probab., **26** (2021), 1–81. arxiv.org/abs/2007.03240.

5. M. Ancona and T. Letendre, *Roots of Kostlan polynomials: moments, strong Law of Large Numbers and Central Limit Theorem*, Ann. H. Lebesgue **4** (2021), 1659–1703. arxiv:.org/abs/1911.12182.

4. T. Letendre and H. Ueberschär, *Random moments for the new eigenfunctions of point scatterers on rectangular flat tori*, Ann. Henri Poincaré, **22** (2021), no. 6, 1783–1836. arxiv.org/abs/1910.04001.

3. T. Letendre and M. Puchol, *Variance of the volume of random real algebraic submanifolds II*, Indiana Univ. Math. J., **68** (2019), no. 6, 1649–1720. arxiv.org/abs/1707.09771.

2. T. Letendre, *Variance of the volume of random real algebraic submanifolds*, Trans. Amer. Math. Soc., **371** (2019), no. 6, 4129-–4192. arxiv.org/abs/1608.05658.

1. T. Letendre, *Expected volume and Euler characteristic of random submanifolds*, J. Funct. Anal., **270** (2016), no. 8, 3047–3110. arxiv.org/abs/1408.2107.

# Invited talks

## Conferences and workshops

6. Mathematical Imaging and Random Geometry, Nice, November 2024.

5. Conference on Random Nodal Domains, Rennes, June 2023.

4. Workshop on Quantum Chaos, Randomness and Spectral Problems, Paris, July 2022.

3. Workshop on Random Real Algebraic Geometry, Güzelyurt, October 2019.

2. Conference on Random Nodal Sets, Rennes, September 2019.

1. Workshop on Random Polynomials, Montevideo, February 2017.

## Seminar

**2024:** Numerical Analysis and PDE (Orsay).

**2023:** Geometry and Topology (Paris, IMJ).

**2022:** Topology and Dynamic (Orsay); Probability and Statistics seminar (Nice).

**2021:** Point Processes and Applications (Lille).

**2020:** Probability (Paris LPSM); Harmonic Analysis (Orsay); Probability (Rennes).

**2019:** Stochastic Models (Paris, LPSM); Geometry (Nantes); Spectral Theory and Geometry (Grenoble).

**2018:** Harmonic Analysis (Orsay); Functional Analysis (Paris, IMJ); Geometry (Nancy).

**2017:** Geometry (Chambéry); Geometry and Dynamics (Lyon); Probability (Paris, MAP5); Darboux seminar (Montpellier); DynQua (Paris IHP).

**2016:** Geometry Topology and Dynamics (Orsay); Geometry (Lyon); Probability (Rennes); Statistical Field Theory (Lausanne); Complex Analysis and Geometry (Paris IMJ).

**2015:** Geometry and Dynamics (Lyon); Ph.D. seminar (Lyon); Mathematical Physics (Lille).

# Grants

**2021:** PEPS Grant *Probabilistic Sobolev injections*, lead investigator.

**2018–2021:** ANR Grant *UniRanDom* (ANR-17-CE40-0008), member.

# Evaluation activities

- Hiring committee member for an Assistant Professor position at Univ. Paris–Saclay, 2023.

- Member of the thesis committee of Louis Gass (Rennes, 2022).

- Referee for the following journals: Ann. Appl. Probab.; Ann. H. Lebesgue; Ann. Inst. Fourier; Ann. Inst. H. Poincaré; Electron. J. Probab.; Int. Math. Res. Not. (IMRN); J. Eur. Math. Soc. (JEMS); Math. Ann.; Probab. Theory Relat. Fields.