

# CURRICULUM VITAE

LUCA ZIVIANI

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YouTube: [Lin-Aiviz](#)



## Skills

Mathematical skills:	Mathematical Analysis, Linear Algebra, Numerical Analysis, Game Theory, Probability, Statistic, Optimization
Programming languages:	Python (Numpy, Manim, OpenCV, SciPy, ...), C++, Matlab, HTML/CSS
Other:	OOP, Data Structures, Algorithms, GitHub
Hobbies:	Piano, Running

## Education

2022 - Present;	<b>PhD, Mathematics</b> , Université Paris-Dauphine PSL (Paris). <i>Supervisor:</i> Emeric Bouin <i>Laboratory:</i> (CEREMADE) Centre de recherche en mathématiques de la décision.
2020 - 2022;	<b>Master degree, Mathematics</b> , MAPPA double degree program operated by <ul style="list-style-type: none"><li>- University of Padova (Italy)</li><li>- University Paris Sciences &amp; Lettres (France)</li></ul> <i>Title:</i> Kinetic Theory and Hypocoercivity. <i>Supervisor:</i> Emeric Bouin; Co-supervisor: Daniela. Tonon <i>Final grade:</i> 110/110 cum laude.
2017 - 2020;	<b>Bachelor degree, Mathematics</b> , Università di Padova, Italy. <i>Title:</i> Rademacher and Whitney's Theorems <i>Supervisor:</i> Davide Vittone <i>Final grade:</i> 110/110 cum laude
2013 - 2017;	<b>High school degree</b> , Liceo scientifico Copernico-Pasoli, Verona, Italy.

## Teaching

2025 - 2026;	<b>Teaching Assistant</b> , MIDO, Université Paris-Dauphine PSL. <ul style="list-style-type: none"><li>- Analysis 1, Bachelor's Degree in Applied Mathematics, 1<sup>st</sup> year.</li><li>- Game Theory, Bachelor's Degree in Applied Mathematics, 3<sup>rd</sup> year.</li></ul>
2024 - 2025;	<b>Teaching Assistant</b> , MIDO, Université Paris-Dauphine PSL. <ul style="list-style-type: none"><li>- Game Theory, Bachelor's Degree in Applied Mathematics, 3<sup>rd</sup> year.</li></ul>
2023 - 2024;	<b>Teaching Assistant</b> , MIDO, Université Paris-Dauphine PSL. <ul style="list-style-type: none"><li>- Analysis 2, Bachelor's Degree in Applied Mathematics, 1<sup>st</sup> year.</li><li>- Game Theory, Bachelor's Degree in Applied Mathematics, 3<sup>rd</sup> year.</li></ul>
2022 - 2023;	<b>Teaching Assistant</b> , MIDO, Université Paris-Dauphine PSL. <ul style="list-style-type: none"><li>- Analysis 2, Bachelor's Degree in Applied Mathematics, 1<sup>st</sup> year.</li><li>- Game Theory, Bachelor's Degree in Applied Mathematics, 3<sup>rd</sup> year.</li></ul>

## Publications

- E. Bouin, J. Dolbeault, L. Ziviani,  *$L^2$  Hypocoercivity methods for kinetic Fokker-Planck equations with factorised Gibbs states*, Kolmogorov Operators and Their Applications, Springer, 2024. [arxiv](#)
- E. Bouin, J. Evans, L. Ziviani, *Sub-exponential tails in biased run and tumble equations with unbounded velocities*, 2025. [arxiv](#)
- E. Bouin, L. Ziviani, *Convergence to a non-explicit steady state in non-factorized kinetic Fokker-Planck equations with (very) weak velocity confinements*, 2025. [arxiv](#)

## Academic Talks

21 May 2025	<a href="#">Junior Analysis Seminar</a> , Imperial College London
28 November 2024	Young Researchers' Seminar, Université Paris-Dauphine
8 October 2024	<a href="#">Modeling, theory and numeric for PDEs</a> , Aussois, France
1-5 July 2024	<a href="#">EWM-EMS Summer School: Kinetic Theory Arising from Mathematical Biology</a> , Institut Mittang-Leffler
10-13 April 2024	<a href="#">EELISA InnoCORE Connect Workshop</a> , Universidad Politécnica de Madrid, Spain.
12 October 2023	Young Researchers' Seminar, Université Paris-Dauphine, France.
28 January 2023	<a href="#">MAFRAN Conference</a> , King's College, Cambridge
23 February 2023	Young Researchers' Seminar, Université Paris-Dauphine

## Events

21-27 January 2024	<a href="#">PDE &amp; Probability in interaction</a> , CIRM, Marseille
12-13 December 2023	<a href="#">KineticNet Workshop</a> , University of Warwick
23-25 November 2022	<a href="#">Dernier Workshop du projet ANR EFI</a> , Lyon