

# Emanuele Pavia

## Curriculum Vitae

### Education

- 2022–ongoing **Post-Doc in Mathematics**, *SISSA, Trieste*.
- 2018–2022 **PhD in Mathematics**, *Università degli Studi di Milano Statale*.  
Title of the thesis: *Mixed graded modules in homotopy Lie theory*.  
Supervisor: Prof. P. Stellari. Co-Supervisor: Doct. M. Porta.
- 2015–2017 **Master in Mathematics**, *Università degli Studi di Milano Statale*, 110L/110.  
Title of the thesis: *Universal extensions and de Rham realizations*.  
Supervisor: Prof. L. Barbieri-Viale.
- 2011–2014 **Bachelor in Mathematics**, *Università degli Studi di Genova*, 100/110.  
Title of the thesis: *Il  $q$ -analogo del fattoriale e del coefficiente binomiale*.  
Supervisor: Prof. A. Conca.

### Teaching Experience

- 2023 **Introduction to Higher Category Theory and Homotopical Algebra**, *SISSA*.  
Informal lectures for the PhD course in Mathematics
- 2020–2022 **Elementi di Matematica di Base**, *Università degli Studi di Milano Statale*.  
Tutoring for the Bachelor degree in Mathematics.
- 2018–2022 **Geometria 2**, *Università degli Studi di Milano Statale*.  
Tutoring for the Bachelor degree in Mathematics.
- 2019–2020 **Algebra del Discreto**, *Università degli Studi di Milano Statale*.  
Tutoring for the Bachelor degree in IT.
- 2016–2017 **Algebra 1**, *Università degli Studi di Milano Statale*.  
Tutoring for the Bachelor degree in Mathematics.

### Professional Experience

- 2018 **Teaching**, *Istituto Professionale Fondazione Luigi Clerici, Milano*.  
Teacher of Mathematics.
- 2017–2018 **Private teaching**, *Fondazione MatemUpper, Milano*.  
Teacher of Mathematics and Physics.

### Research and publications

- 2023 **A  $t$ -structure on the  $\infty$ -category of mixed graded modules**, *J. Homotopy Relat. Struct.*, DOI: <https://doi.org/10.1007/s40062-023-00324-3>.

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2022 **Mixed graded structure on Chevalley-Eilenberg functors**, *Pre-print*.

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## Seminars and Conferences

Organizer **PhD<sup>2</sup>ays**, *Università degli Studi di Milano Statale*, Milano, December 9–11, 2020.

Speaker **Séminaire de l'équipe TA**, *Université Sorbonne Paris Nord*, Paris, January 18, 2024.

Title of the talk: *Local systems of higher categories and higher Koszul duality*.

Speaker **2nd ItaCa Workshop**, *Villa Cambiaso*, Genova, December 20–21, 2021.

Title of the talk: *t-structures on  $\infty$ -categories with an application to mixed graded complexes*.

Speaker **PhD<sup>2</sup>ays**, *Università degli Studi di Milano Statale*, Milano, October 3–4, 2019.

Title of the talk: *An introduction to derived algebraic geometry: Calabi-Yau structures and symplectic stacks*.

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## Additional Skills

Softwares LaTeX, Matlab, C++, Microsoft Office

Music Bass, flute and guitar player.

Writing Music writer for Livore.it and Classix.

Driving license B

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## Personal Skills

- Excited about his work.
- Passionate teacher.
- Quick learner.

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## Languages

Italian **Mother tongue**

English **C1**

French **A2**

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## Interests

- Music
- Literature
- Hiking
- Climbing
- Mathematics
- Soccer
- Swimming
- Videogames

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## Personal Details

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