

CURRICULUM VITÆ

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Professional address

Dipartimento di Matematica
Università degli Studi di Pavia
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Position:

Associate Professor at the Department of Mathematics since July 1st, 2022.

Studies:

2001: PhD in Mathematics at the École Normale Supérieure de Cachan (France) and at the University of Genoa (Italy).

1997: Master in Physics at the University of Pavia (Italy).

Qualifications:

2020: National scientific habilitations as full professor (Italy).

Scientific interests: Partial differential equations, in particular kinetic and transport equations and their applications to complex fluids and social sciences.

Publications: Author of 60 published scientific documents, H-index: 15 (source: Scopus, 3 June 2024). Editor of 2 books of proceedings.

Top-five publication:

- [1] Laurent Desvillettes, Francesco Salvarani. Characterization of collision kernels. *M2AN Math. Model. Numer. Anal.* **37**, 2 (2003) 345–355
- [2] Laurent Desvillettes, Roberto Monaco, Francesco Salvarani. A kinetic model allowing to obtain the energy law of polytropic gases in the presence of chemical reactions. *Eur. J. Mech. B/Fluids* **24**, 2 (2005) 219–236
- [3] Emmanuel Frénod, Francesco Salvarani, Eric Sonnendrücker. Long time simulation of a beam in a periodic focusing channel via a two-scale PIC-method. *Math. Models Methods Appl. Sci.* **19**, 2 (2009) 175–197
- [4] Étienne Bernard, Francesco Salvarani. On the convergence to equilibrium for degenerate transport problems. *Arch. Rational. Mech. Anal.*, **208**, 3 (2013) 977–984
- [5] Laurent Boudin, Francesco Salvarani, Emmanuel Trélat. Exponential convergence towards consensus for non-symmetric linear first-order systems in finite and infinite dimensions. *SIAM J. Math. Anal.* **54**, 3 (2022) 2727–2752

Known languages: French, English, Italian, Spanish.