Edoardo Giovanni Tolotti

PHD STUDENT IN MATHEMATICS

Università di Pavia

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Education	
Università di Pavia	Pavia, Italy
Ph.D. in Mathematics	2022 - Present
 Advisor: Professor Maria Giovanna Mora Main research topics: Dimension reduction, Γ-Convergence, Nonlinear Elasticity, Nonlocal energies, Fre Dislocations. Visiting: During my Ph.D. I had the pleasure to visit for three months prof. Lucia Scardia at Heriot-Watt 	
Università di Pavia	Pavia, Italy
MASTER DEGREE IN MATHEMATICS	2020 - 2022
 Advisor: Professor Maria Giovanna Mora Thesis: On a strain gradient plasticity model accounting for the Burgers vector and plastic spin Grade: 110L/110 	2020 2022
Università di Pavia	Pavia, Italy
BACHELOR DEGREE IN MATHEMATICS	2017 - 2020
 Advisor: Professor Stefano Gualandi Thesis: Algoritmi per il trasporto ottimo semidiscreto e stampa 3D Grade: 110L/110 	
Publications	
ARTICLES	
E.G. Tolotti : On the hierarchy of plate models for a singularly perturbed multi-well nonlinear elast Nonlinear Science 35 ,77(2025). https://doi.org/10.1007/s00332-025-10174-3	ic energy. Journal of
Preprints	
M.G. Mora, L. Rondi, L. Scardia, E.G. Tolotti. 2025. Nonlocal anisotropic Riesz interactions with a p arXiv:2507.07710 [math.AP].	hysical confinement.
E. Maggiorelli, F. Riva, E.G. Tolotti . 2025. A free boundary approach to the quasistatic evolution of arXiv:2503.17023 [math.AP].	debonding models.
E.G. Tolotti . 2024. Stability of the Von Kármán regime for thin plates under Neumann boundary condarXiv:2409.01748 [math.AP] .	ditions.
Awards, Fellowships, & Grants	
2024 Student Paper Competition Finalist, The 14th AIMS conference, Abu Dhabi.	0.10.000
2020 - 2022 Merit scolarship , Università di Pavia	€ 12,000
Talks and posters	
Mathematical Analysis and Applications, Como (IT), June 09-13, 2025, poster presentation : <i>Explicit fined anisotropic Riesz potential</i> .	minimizers of the con-

Workshop on Singularities in Discrete Systems, Oberwolfach (GE), May 04-09, 2025, contributed short talk: Explicit mini-

mizers of the confined anisotropic Riesz potential.

- XXXIV Convegno Nazionale di Calcolo delle Variazioni, Riccione (IT), February 10-14, 2025, **contributed talk**: Stability of the Von Kármán regime for thin plates under Neumann boundary conditions.
- The 14th AIMS Conference on Dynamical Systems and Differential Equations, Abu Dhabi (UAE), December 16-20, 2024, **invited speaker**: Stability of the Von Kármán regime for thin plates under Neumann boundary conditions.
- Heriot-Watt Analysis Seminar, Edinburgh (UK), October 2, 2024, **invited speaker**: *Stability of the Von Kármán regime for thin plates under Neumann boundary conditions*.
- Italian-Japanese Workshop on Variational Perspectives for PDEs, Pavia (IT), September 9-13, 2024, **poster presentation**: Stability of the Von Kármán regime for thin plates under Neumann boundary conditions.
- Diffuse Interface Methods in Continuum Mechanics: Analysis, Singular Limits, and Alghoritms, Cetraro (IT), July 8-12, 2024, **poster presentation**: Stability of the Von Kármán regime for thin plates under Neumann boundary conditions.
- Lions-Magenes Days 2024, Pavia (IT), May 21-22, 2024, **poster presentation**: On the hierarchy of plate models for a singularly perturbed multi-well nonlinear elastic energy.
- Variational and Geometric Structures for Evolution, Levico Terme (IT), October 8-13, 2023, **contributed talk**: On the hierarchy of plate models for a singularly perturbed multi-well nonlinear elastic energy.
- Hausdorff School Analysis of PDEs: Variational and Geometric perspectives, Bonn (GE), July 10-14, 2023, **poster presentation**: On the hierarchy of plate models for a singularly perturbed multi-well nonlinear elastic energy.

Teaching Experience _____

Spring		Università di
2024		Pavia
Summer	Finance - Real Analysis, Precourse	Università di
2023		Pavia
Spring	Bioingegneria - Analisi matematica 2, Teaching Assistant	Università di
2023		Pavia
Spring	Indegneria elettronica e intormatica - analici matematica / leaching accistant	Università di
2023		Pavia

Miscellanea

OTHER ACTIVITIES

• Editor of the Oberwolfach report for Workshop 2519: Singularities in Discrete Systems.

REFERENCES CONTACTS

- · Prof. Maria Giovanna Mora: mariagiovanna.mora@unipv.it
- Prof. Lucia Scardia: L.Scardia@hw.ac.uk

LANGUAGES

- Italian: Mother tongue
- English: C1 level (self-evaluated)
- German: A1 level (self-evaluated)

PROGRAMMING SKILLS

- Python3
- MATLAB
- ETFX