# 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, $\Gamma$ -Convergence, Nonlinear Elasticity, Nonlocal energie • Visiting: During my Ph.D. I had the pleasure to visit for three months prof. Lucia Scardia at Heriot-	
Università di Pavia	Pavia, Italy
MASTER DEGREE IN MATHEMATICS	2020 - 2022
<ul> <li>Advisor: Professor Maria Giovanna Mora</li> <li>Thesis: On a strain gradient plasticity model accounting for the Burgers vector and plastic spin</li> <li>Grade: 110L/110</li> </ul>	
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	
<b>E.G. Tolotti</b> : On the hierarchy of plate models for a singularly perturbed multi-well nonlinear Nonlinear Science <b>35</b> ,77(2025). https://doi.org/10.1007/s00332-025-10174-3	elastic energy. Journal of
Preprints	
<b>E. Maggiorelli, F. Riva, E.G. Tolotti</b> . 2025. A free boundary approach to the quasistatic evolution arXiv:2503.17023 [math.AP].	on of debonding models.
<b>E.G. Tolotti</b> . 2024. Stability of the Von Kármán regime for thin plates under Neumann boundary arXiv:2409.01748 [math.AP].	conditions.
Awards, Fellowships, & Grants	
2020 - 2022 Merit scolarship, Università di Pavia	€ 12,000
2024 <b>Student Paper Competition Finalist</b> , The 14th AIMS conference, Abu Dhabi.	C 12,000
2024 Statemer aper competition i maist, the 14th Amis conference, Abu bliabl.	
Talks and posters	

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

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- 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	Ingegneria elettronica e intormatica - Analisi matematica / Teaching Assistant	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	Ingegneria elettronica e informatica - Analisi matematica 2, Teaching Assistant	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
- ET<sub>F</sub>X