

GIULIA CAVALLERI

PERSONAL INFORMATION

| | |
|--------------------------------|---|
| <i>Place and Date of Birth</i> | January 16 1997, Bergamo (Italy) |
| <i>Email</i> | giulia.cavalleri01@universitadipavia.it |
| <i>Citizenship</i> | Italian |

CURRENT POSITION

Ph.D. student in Mathematical Analysis **2022 - Today**

University of Pavia

Joint Ph.D. Program between University of Pavia, University of Milano-Bicocca and INdAM.

Supervisors: Prof. Pierluigi Colli, Prof. Elisabetta Rocca.

Interests: Nonlinear evolution equations for tumor growth models.

EDUCATION

Postgraduate Course **2022**

University of Modena and Reggio Emilia

School in AI: Deep Learning, Vision and Language for Industry - Second Edition.

Master Degree in Mathematics **2019 - 2021**

University of Milano-Bicocca

Title of the thesis: “Unique Continuation Principles at the Boundary”.

Supervisor: Prof. Veronica Felli.

Grade: 110/110 cum Laude.

Bachelor’s Degree in Mathematics **2016 - 2019**

University of Milano-Bicocca

Title of the thesis: “The Classical Müntz-Szász Theorem and the One on the Unit Disc”.

Supervisor: Prof. Stefano Meda.

Grade: 110/110 cum Laude.

High school **2011 - 2016**

Liceo scientifico Filippo Lussana (Bergamo)

Grade: 99/100.

TEACHING EXPERIENCE

Univeristy of Pavia

- Coordination of the tutoring activities associated with the course “Analisi Matematica I”, degree course in Ingegneria Civile e Ambientale and Ingegneria Edile e Architettura (2023-24).
- Seminar lectures for “Elementi di Matematica”, degree course in Scienze e tecnologie per l’ambiente e la natura (2022-23, 2023-24), 12 hours.

University of Milano-Bicocca

- Peer tutoring for students with disabilities and with S.L.D. for “Algebra Lineare e Geometria” (2019-20), “Analisi Matematica I” (2020-21), support in the writing of the bachelor thesis in Mathematical Analysis (2022-23).
- Tutoring activities for “Analisi Matematica I”, degree course in Scienze Statistiche ed Economiche (2020-21, 16 hours) and in Matematica (2020-21, 60 hours).
- Tutoring activity for the project “Piano lauree scientifiche - riduzione tassi di abbandono” for “Analisi Matematica I”, degree course in Statistica e Scienze delle Informazioni and in Scienze Statistiche ed Economiche (2019-20, 2020-21).

PREPRINT

- Giulia Cavalleri, A phase field model of Cahn–Hilliard type for tumour growth with mechanical effects and damage.

CONFERENCES, WORKSHOPS AND SCHOOLS

- *The 14th AIMS Conference on Dynamical Systems and Differential Equations*. NYU Abu Dhabi (UAE), December 16-20, 2024. **Invited speaker.**
- *Norman working group of Mathematical Biology - LMAH (Le Havre Normandie) & LMRS (Rouen Normandie) - Session 8*. Le Havre (France), November 28-29, 2024. **Invited speaker.**
- *Italian-Japanese Workshop on Variational Perspectives for PDEs*. University of Pavia (Italy), September 09-13, 2024. **Poster presentation.**
- *Diffuse Interface methods in Continuum Mechanics: analysis, singular limits, and algorithms*. Cetraro (Italy), July 08-12, 2024. **Poster presentation.**
- *41th Congress of the French Theoretical Biology Society*. University of Poitiers (France), June 24-27, 2024. **Invited speaker.**
- *From Cells to Tissues: Models, Analysis and Applications*. Como (Italy), June 10-14, 2024. **Contributed talk.**
- *Lions–Magenes Days 2024*. University of Pavia (Italy), May 21-22, 2024. **Poster presentation.**
- *The Cahn–Hilliard equation - recent advances and new challenges*. Chęciny, (Poland), April 21-26, 2024. **Contributed talk.**
- *Cahn–Hilliard and Allen–Cahn Equations in Bio-medicine*. Politecnico di Milano (Italy), February 22, 2024. **Participant.**

- *Boundary value problems and applications - The legacy of Enrico Magenes*. University of Pavia (Italy), November 21, 2023. Participant.
- *XI Giornata di Studio Politecnico di Milano - Università di Pavia “Equazioni Differenziali e Calcolo delle Variazioni”*. Politecnico di Milano (Italy), October 26, 2023. Participant.
- *CIRM conference “Variational and Geometric Structures for Evolution”*. Levico Terme (Italy), October 8-13, 2023. Participant.
- *Hausdorff School “Analysis of PDEs: Variational and Geometric Perspectives”*. University of Bonn and Hausdorff School for Advanced Studies in Mathematics (Germany), July 10-14, 2023. Selected participant.