

Matteo Perugini

Curriculum Vitæ

Jobs and Education

- June 2019 – **Postdoc**, MATHEMATICAL INSTITUTE, Muenster University, Muenster (DE).
Sept 2021 Research group of Calculus of Variations. Group Leader: Manuel Friedrich
- 2015 – 2019 **PhD**, MATHEMATICAL SCIENCES, Sussex University, Brighton, (UK),
PhD advisor: Filippo Cagnetti.
PhD thesis title: "Rigidity for Perimeter Inequality under Symmetrisation"
- 2012 – 2015 **Master's degree**, MATHEMATICAL SCIENCES, Università degli Studi di Trento, Trento, (IT),
Thesis advisor: Raul Paolo Serapioni.
Thesis Title: "Elements in Analysis on Metric Spaces"
- 2008 – 2011 **Bachelor's degree**, MATHEMATICS, Università degli Studi di Camerino, Camerino (IT),
Thesis advisor: Pierluigi Maconi.
Thesis Title: "Mathematical Models for the Management of Forest Fires"

Teaching Experience

- Oct 2019 – **PDE Tutor assistant**, MATHEMATICAL INSTITUTE, Muenster University, Muenster (DE).
Feb 2020
- Feb 2016 – **Analysis 1 Tutor assistant**, MATHEMATICAL DEPARTMENT, Sussex University, Brighton (UK).
May 2016
- Sep 2012 – **Analysis 1 Tutor assistant**, MATHEMATICAL DEPARTMENT, Università degli Studi di Trento, Trento (IT).
Feb 2013

Organized Conferences

- March 2019 **Co-organizer**, *Workshop on Calculus of Variations*, Sussex University, Brighton (UK).
July 2018 **Co-organizer**, *Calculus of Variations and Geometric Measure Theory at Sussex*, Sussex University, Brighton (UK).

Invited Speaker

- May 2021 SIAM Conference on Mathematical Aspects of Materials Science - MS21, (online)
Oct 2019 Poster session, Calculus of variations and applications in Trani, Trani (IT)
June 2018 PGR seminars, University of Kent, Canterbury (UK)
Feb 2018 XXVIII Convegno nazionale di Calcolo delle Variazioni, Levico Terme, Trento (IT)
Nov 2017 Analysis seminars, University of Bristol, Bristol (UK)
Oct 2017 Analysis and PDE seminars, Sussex University, Brighton (UK)

Reviewing

Referee for, *Archiv der Mathematik*.

Publications and Preprints

M. Friedrich, M. Perugini, F. Solombrino, " Γ -convergence for free-discontinuity problems in linear elasticity: Homogenization and relaxation", Submitted, (2020).

F. Cagnetti, A. Chambolle, M. Perugini, L. Scardia, "An extension result for generalised special functions of bounded deformation ", **J. Convex Anal.** 28, (2021).

M. Friedrich, M. Perugini, F. Solombrino, "Lower semicontinuity for functionals defined on piecewise rigid functions and on GSB Γ ", **J. Funct. Anal.** 280, (2021).

M. Perugini, "Rigidity of Steiner's inequality for the anisotropic perimeter", Accepted for publication in *Ann. Sc. Norm. Super. Pisa Cl. Sci.*, (2021).

F. Cagnetti, M. Perugini, D. Stöger, "Rigidity for perimeter inequality under spherical symmetrisation", **Calc. Var.** 59, (2020).

Work in progress

F. Cagnetti, G. Domazakis, M. Perugini, F. Seuffert, "Rigidity for Pòlya-Szegő inequality for spherical symmetrization", In preparation.

Language Skills

Italian Native

English Fluent

Other Hobbies and Interests

Music, Acoustic guitar, diatonic button accordion.

Sports, Rock Climbing (7B/C Font.).

18 - 10 - 2021