Chiara Bernardini iD

Curriculum Vitae

Department of Mathematics
University of Padua
Via Trieste 63, Padova 35121, Italy
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Personal information

First name	Chiara
Last name	Bernardini
Place and date of birth	Urbino (Italy), February 11, 1995
Nationality	Italian
Position	PhD student
Affiliation	Department of Mathematics "Tullio Levi-Civita", Univeristy of Padua
E-mail	chiara.bernardini@math.unipd.it

Education

October 2020-ongoing — **PhD student in Mathematics**, University of Padua, Italy

September 25, 2020 — **Master Degree in Mathematics**, University of Bologna, Italy
Thesis: *An h-principle result for curves with constant curvature in $\mathbb{R}^n$*
Supervisor: Professor Alberto Parmeggiani
Graduated with honors (110/110 magna cum laude) - GPA: 29.6 out of 30

June 29, 2018 — **Bachelor of Science in Mathematics**, University of Bologna, Italy
Thesis: *The Faà di Bruno's Formula*
Supervisor: Professor Giovanni Dore
Graduated with honors (110/110 magna cum laude) - GPA: 29.1 out of 30

Research topics

Nonlinear PDEs, Calculus of Variations, Variational techniques, Mean-Field Games, Conformal geometry

Publications and preprint

1. Bernardini C.: *Existence and Compactness of Conformal Metrics on the Plane with Unbounded and Sign-Changing Gaussian Curvature*, Vietnam J. Math. (2021) doi:10.1007/s10013-021-00540-5

2. Bernardini C.: *Existence and asymptotic behavior of non-normal conformal metrics on $\mathbb{R}^4$ with sign-changing Q-curvature*, Commun. Contemp. Math. (2022) doi:10.1142/S0219199722500535 (preprint ArXiv: 2112.10848)

3. Bernardini C., Vespri V., Zaccaron M.: *A note on Campanato's L^p-regularity of solutions of elliptic equations with continuous coefficients,* (2022) submitted

4. Bernardini C., Cesaroni A. : *Ergodic Mean-Field Games with aggregation of Choquard-type,* (2022) submitted (preprint ArXiv: 2208.08177)

Teaching activities

November 2021 - June 2022   **Teaching assistant**, *Analisi Matematica II (Calculus II), Bachelor degree in Mathematics*, University of Bologna. Weekly exercises (40 hours)

October 2019 - May 2020   **Teaching support activity**, *Analisi Matematica II (Calculus II), Bachelor degree in Mathematics*, University of Bologna. Weekly exercises (25 hours)

Scholarships

2015   Scholarship for students enrolled in the academic year 2014/2015 to study courses in subject areas of particular national interest

October 2020 - ongoing   PhD Fellowship from University of Padua

Talks

October 7, 2022   Contributed talk at **10th Workshop of the GAMM Activity Group "Analysis of Partial Differential Equations"**, ISTA Austria.
Title: Ergodic Mean-Field Games with aggregation of Choquard-type.

Poster sessions

August 11, 2022   **Event**: **Hausdorff School - Geometric Analysis and Nonlinear Partial Differential Equations**
Place: Hausdorff Center for Mathematics, Bonn (Germany)
Poster title: Stationary Mean-Field Games with Riesz-type aggregation

Schools and Conferences attended

December 16-18, 2019   **Junior Math Days**, SISSA Trieste (with SISSA travel grant for Master students)

January 2020   **Winter School on Integrable Systems and Representation Theory**, University of Bologna

June 21-25, 2021   **Calculus of Variations and PDEs: recent developments and future directions**, ETH Zürich (attended online)

September 16-18, 2021   **Recent Progress in Geometric Analysis and PDEs**, University of Bologna

November 29 – December 3, 2021   **Winter school: Analytical Methods in Quantum and Continuum Mechanics**, Polytechnic University of Turin (with Polito travel grant)

May 9–13, 2022.   **XXXI Convegno Nazionale di Calcolo delle Variazioni**, Levico Terme, Trento

May 23–27, 2022   **Conference 100 UMI - 800 UniPD**, University of Padua

June 6-7, 2022   **Nonlinear meeting in Bologna**, University of Bologna

June 27 - July 1, 2022	**Summer school - Geometric and analytic aspects of functional variational principles**, Cetraro, Cosenza (with CIME travel grant)
August 8-12, 2022	**Hausdorff School - Geometric Analysis and Nonlinear Partial Differential Equations**, Hausdorff Center for Mathematics, Bonn (with Hausdorff Center's travel grant)

Languages

Italian	Mother tongue
English	Intermediate B2

Padova, October 29, 2022