

Luca Tamanini – Curriculum Vitae et Studiorum

Date/place of birth 28/09/1990 – Tione di Trento (TN), Italy
Nationality Italian
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Academic background

- a.y. 2014/15 – present: co-tutelle PhD student at SISSA (Trieste) and Université Paris Ouest Nanterre La Défense under the joint supervision of prof. Nicola Gigli (SISSA) and prof. Christian Léonard (Paris Ouest)
- 23/07/2014: Master degree at the University of Trento with evaluation 110/110 magna cum laude with thesis “On the structure of RCD spaces” under the joint supervision of prof. Francesco Serra Cassano (University of Trento) and prof. Nicola Gigli (Université Pierre et Marie Curie)
- a.y. 2012/13 – a.y. 2013/14: Master student at the University of Trento – Department of Mathematics
- a.y. 2012/13: math tutor for the first year students of the University of Trento – Department of Mathematics
- a.y. 2012/13: math tutor for autistic students of the University of Trento – Department of Mathematics
- 18/07/2012: Bachelor degree at the University of Trento with evaluation 110/110 magna cum laude with thesis “Gruppi di Lie: il quinto problema di Hilbert” (Lie Groups: Hilbert's fifth problem) under the supervision of prof. Gabriele H. Greco
- a.y. 2009/10 – a.y. 2011/12: Bachelor student at the University of Trento – Department of Mathematics
- July 2009: graduation exam at the Istituto di Istruzione “Lorenzo Guetti” in Tione di Trento with evaluation 100/100 magna cum laude

Scholarships

- a.y. 2014/15 – a.y. 2016/17: Università Italo Francese/Université Franco Italienne scholarship holder for joint PhD programs
- a.y. 2013/14: Erasmus scholarship holder at Université Paris VI – Pierre et Marie Curie
- a.y. 2012/13 – a.y. 2013/14: INdAM scholarship holder for Master degree
- a.y. 2009/10 – a.y. 2011/12: INdAM scholarship holder for Bachelor degree

Research interests

In general: Analysis on metric measure spaces, PDEs and Gradient Flows, Measure Theory, Probability & Stochastic Processes, Differential & Riemannian Geometry

In detail: Optimal Transportation, Schrödinger Problem, Functional inequalities, RCD spaces

Preprints

- 1) N. Gigli, L. Tamanini. *Second order differentiation formula on compact $RCD^*(K,N)$ spaces*, preprint

Talks & seminars

- 1) June 2017: “TBA” in Closing conference of the ANR project STAB, in honour of the 59th birthday of P. Cattiaux and C. Léonard, Toulouse (France)
- 2) February 2016: “A new approach to optimal transport on metric measure spaces: a Hitchhiker's guide”, Analysis Junior Seminar in SISSA, Trieste (Italy)
- 3) May 2015: “Probability meets geometry: an introduction to the Schrödinger problem on RCD spaces” in Inter'Actions 2015, colloque pour les doctorants en mathématiques en France, Grenoble (France)

Attended conferences, workshops & summer schools (without giving talks)

- November 2016: ERC Workshop on Optimal Transportation and Applications, Pisa (Italy)
- October 2016: Workshop in Geometric Measure Theory, Shape Optimisation and Free Boundaries, Trieste (Italy)
- September 2016: A Mathematical Tribute to Ennio De Giorgi, Pisa (Italy)
- April 2016: 4th Spring School on Stochastic and Geometric Analysis, Vlieland (Netherlands)
- January 2016: XXVI National Convention of Calculus of Variations, Levico Terme (Italy)
- July 2015: Summer School on Transport, Fluids and Mixing, Levico Terme (Italy)
- June 2015: International workshop on Optimal Transport and Geometry, Montpellier (France)
- May 2015: IHP Spring School on Discrete Ricci Curvature, Paris (France)
- March 2015: IHP Workshop on Interacting particles systems and non-equilibrium dynamics, Paris (France)
- February 2015: HIM Workshop on New developments in Optimal Transport, Geometry and Analysis, Bonn (Germany)
- February 2015: HIM Workshop on Gradient flows and entropy methods, Bonn (Germany)
- February 2015: XXV National Convention of Calculus of Variations, Levico Terme (Italy)
- October 2014: ERC Workshop on Optimal Transportation and Applications, Pisa (Italy)
- June 2014: ERC Workshop on Analysis and Geometry on Singular Spaces, Pisa (Italy)
- January 2014: XXIV National Convention of Calculus of Variations, Levico Terme (Italy)

Language skills

- Italian: mother tongue
- English: fluent (FCE - B2 level)
- French: fluent
- German: intermediate (Zertifikat Deutsch - B1 level)
- Spanish: basic