

Giona Veronelli

Università di Milano Bicocca
Dipartimento di Matematica e Applicazioni
giona.veronelli@unimib.it

Curriculum vitae

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PERSONAL DATA

Name: Giona Veronelli
Birthplace: Como (CO)
Birthday: 19 November 1983
Nationality: Italian
Gender: male

Professional address: Università di Milano Bicocca
Dipartimento di Matematica e Applicazioni
Ufficio U5 -3047, 55 via R. Cozzi
20126 Milano - Italia

E-mail: giona.veronelli@unimib.it

PRESENT POSITION

since the 30th of November 2018: ricercatore rtd - B (assistant professor under tenure) at Università di Milano Bicocca
Dipartimento di Matematica e Applicazioni

ABILITAZIONE SCIENTIFICA NAZIONALE (Italian Scientific Qualification)

since 30/03/2018: *abilitazione scientifica nazionale* as a Full professor (*prima e seconda fascia*) in Geometry and Algebra (*settore concorsuale 01/A2*)
Deadline: 30/03/2024.

since 03/04/2018: *abilitazione scientifica nazionale* as an Assistant professor (*seconda fascia*) in Analysis, Probability and Statistics (*settore concorsuale 01/A3*)
Deadline: 03/04/2024.

PAST POSITIONS AND EDUCATION

- September 2012 - November 2018: Maître de Conférences à l'Institut Galilée - Université de Paris 13
Laboratoire d'Analyse, Géométrie et Applications (LAGA) et Département de Mathématiques
- January 2012 - August 2012: *INdAM Fellowships in Mathematics and/or Applications for Experienced Researchers cofunded by Marie Curie (type Outgoing)*
Université de Cergy-Pontoise, Laboratoire Analyse, Géométrie et Modélisation (AGM)
- October 2011 - December 2011: demi-ATER, 26ème section, Université de Cergy-Pontoise, Laboratoire Analyse, Géométrie et Modélisation (AGM)
- October 2010 - September 2011: Post-Doc all'Université de Cergy-Pontoise, Laboratoire Analyse, Géométrie et Modélisation (AGM), supervisor: Emmanuel Hebey
- November 2007 - February 2011: Ph.D. in Mathematics at Università degli Studi di Milano
Thesis: *Some analytic and geometric aspects of the p -Laplacian on Riemannian manifolds*
Director: Stefano Pigola
- October 2007: Master degree (*laurea specialistica*) in Mathematics (110/110 cum laude), Università degli Studi dell'Insubria (Como)

PUBLICATIONS

- 23) D. Impera, M. Rimoldi, G. Veronelli, *Density Problems for second order Sobolev Spaces and Cut-off Functions on Manifolds With Unbounded Geometry*. Int. Math. Res. Not. (in press), ISSN: 1073-7928, doi: 10.1093/imrn/rnz131
- 22) S. Pigola, G. Veronelli, *The Riemannian extension problem*. Ann. SNS Pisa cl. Scienze (in press)
- 21) M. Rimoldi, G. Veronelli, *Extremals of Log Sobolev inequality on non-compact manifolds and Ricci soliton structures*. Calc. Var. PDE, vol. **58**, (2019) ISSN: 0944-2669, doi: 10.1007/s00526-019-1518-z
- 20) S. Pigola, G. Veronelli, *Sobolev spaces of maps and the Dirichlet problem for harmonic maps*. Communications in Contemporary Mathematics vol. 21, (2019) 1750091, ISSN: 0219-1997, doi: 10.1142/S0219199717500912
- 19) A. Naber, D. Valtorta, G. Veronelli, *Quantitative regularity for p -harmonic maps*. Comm. Anal. Geom. **27**, p. 111-159, (2019) ISSN: 1019-8385, doi: 10.4310/CAG.2019.v27.n1.a4
- 18) G. Veronelli, *Scalar curvature via local extent*. Anal. Geom. Metr. Sp., vol. 6, p. 146-164, ISSN: 2299-3274, doi: <https://doi.org/10.1515/agms-2018-0008>

- 17) G. Veronelli, *Boundary structure of convex sets in the hyperbolic space*. Monatshefte für mathematics, **188**, (2018) p. 567-586, ISSN: 0026-9255, doi: 10.1007/s00605-018-1194-7
- 16) I. Izmestiev, F. Fillastre, G. Veronelli, *Hyperbolization of cusps with convex boundary*. Manuscripta Math. **150** (2016) no. 3-4, 475–492. doi:10.1007/s00229-015-0814-y
- 15) F. Fillastre, G. Veronelli, *Lorentzian area measures and the Christoffel problem* Ann. Sc. Norm. Super. Pisa Cl. Sci. Vol. **XVI** issue 2 (2016) 383–467. doi:10.2422/2036-2145.201405 010
- 14) S. Pigola, G. Veronelli, *On the homotopy Dirichlet problem for p -harmonic maps II: Cartan-Hadamard targets with special structure*. Proceedings of the Amer. Math. Soc. **144** (2016), no. 7, 3173–3180. doi:10.1090/proc/12962
- 13) S. Pigola, G. Veronelli, *On the homotopy Dirichlet problem for p -harmonic maps I: compact targets*. Geometriae Dedicata **177** (2015) 307–322. doi:10.1007/s10711-014-9991-1
- 12) E. Hebey, G. Veronelli, *The Lichnerowicz equation in the closed case of the Einstein-Maxwell Theory*. Transactions of the Amer. Math. Soc. **366** Number 3, March 2014, Pages 1179–1193. doi:10.1090/S0002-9947-2013-05790-X
- 11) M. Rimoldi, G. Veronelli, *Topology of steady and expanding gradient Ricci solitons via f -harmonic maps*. Differential Geom. Appl. **31** no. 5 (2013) 623–638. doi:10.1016/j.difgeo.2013.06.001
- 10) S. Pigola, G. Veronelli, *Remarks on L^p -vanishing results in geometric analysis*. International Journal of Mathematics **23** no. 1 (2012), 1250008 (18 pages). doi:10.1142/S0129167X11007513.
- 9) D. Valtorta, G. Veronelli, *Stokes' theorem, volume growth and parabolicity*. Tohoku Mathematical Journal **63** no. 3 (2011), p. 397–412. ISSN: 0040-8735
- 8) G. Veronelli, *A general comparison theorem for p -harmonic maps in homotopy class*. Journal of Mathematical Analysis and Applications **391** (2012) p. 335–349. doi:10.1016/j.jmaa.2011.03.037
- 7) G. Veronelli, *Uniform decay estimates for solutions of the Yamabe equation*. Geometriae Dedicata **155** (2011) p. 1–20. doi:10.1007/s10711-011-9575-2
- 6) P. Mastrolia, M. Rimoldi, G. Veronelli, *Myers' type theorems and some related oscillation results*. Journal of Geometric Analysis **22** (2012), no. 3, p. 763–779. doi:10.1007/s12220-011-9213-0
- 5) S. Pigola, G. Veronelli, *Uniform decay estimates for finite-energy solutions of semi-linear elliptic inequalities and geometric applications*. Differential Geometry and Its Applications **29** Issue 1 (2011), p. 35–54. doi:10.1016/j.difgeo.2011.01.002
- 4) I. Holopainen, S. Pigola, G. Veronelli, *Global comparison principles for the p -Laplace operator on Riemannian manifolds*. Potential Analysis **34** no. 4 (2011), p. 371–384. doi:10.1007/s11118-010-9199-4
- 3) S. Pigola, G. Veronelli, *Lower volume estimates and Sobolev inequalities*. Proceedings of the American Mathematical Society **138** (2010), no. 12, p. 4479–4486. doi:10.1090/S0002-9939-2010-10514-2
- 2) G. Veronelli, *On p -harmonic maps and convex functions*. Manuscripta Mathematica **131** (2010), no. 3-4, p. 537–546. doi:10.1007/s00229-010-0335-7
- 1) S. Pigola, G. Veronelli, *On the homotopy class of maps with finite p -energy into non-positively curved manifolds*. Geometriae Dedicata **143** (2009), Issue 1, p. 109–116. doi:10.1007/s10711-009-9376-z

PREPRINTS

- G. Veronelli, *Sobolev functions without compactly supported approximations*. arXiv:2004.10682
- D. Impera, M. Rimoldi, G. Veronelli, *Higher order distance-like functions and Sobolev spaces*. arXiv:1908.10951

ORGANISATION OF CONFERENCES

- July 2019: Centro Volta, Como, Italie, III Scuola *Geometric Analysis on Riemannian and singular metric spaces*
- Mini-courses by: A. Carlotto (ETH – Zürich), A. Fraser (British Columbia), C. de Lellis (Princeton), A. Savo (La Sapienza), S. Wenger (Université de Fribourg)
- Comitato scientifico: G. Besson, S. Pigola, A. Setti, M. Troyanov.
- July 2016: Centro Volta, Como, Italie, II Scuola *Geometric Analysis on Riemannian and singular metric spaces*
- Mini-courses by: H.-D. Cao, N. Gigli, T. Ilmanen, R. Schoen, C. Sormani, X.-P. Zhu
- Scientific committee: G. Besson, S. Pigola, A. Setti, M. Troyanov.
- October 2013: Centro Volta, Como, Italie, Scuola *Geometric Analysis on Riemannian and singular metric spaces*
- Mini-courses by: S. Alexander, G. Carron, E. Hebey, U. Lang, A. Neves
- Scientific committee: G. Besson, S. Pigola, A. Setti, M. Troyanov.

TALKS AND CONFERENCES

- September 2019: *Simons Semester in "Geometry and Analysis"*, IMPAN, Warsaw
- September 2019: *Congresso UMI 2019, Sezione Topologia e Geometria Differenziale*, Università di Pavia
- May 2019: *Convegno nazionale di analisi armonica*, Università di Bergamo
- May 2019: *Seminario di Analisi*, SISSA, Trieste
- April 2019: Università degli Studi di Milano
- February 2019: Incontro PRIN "Varietà reali e complesse: geometria, topologia e analisi armonica". SNS Pisa
- February 2019: ULB geometry seminar, Bruxelles
- November 2018: *Rencontre ANR CCEM : limites de Gromov-Hausdorff*, Université Paris Est Créteil
- October 2018: *Stability Phenomena in Geometry and Mathematical Physics*, HU-Berlin
- September 2018: Summer school *Generalized curvature*, EPFL Losanna

- march 2018: Séminaire Gaston Darboux - Montpellier
- January 2018: Humboldt Universität - Berlin
- December 2017: Goethe Universität - Frankfurt am Main, Oberseminar Geometrische Analysis
- December 2017: Université Paris 7, Séminaire de Géométrie
- October 2017: Politecnico di Torino
- January 2017: Scuola Normale Superiore di Pisa
- January 2017: Università dell'Insubria, workshop *A geometry day in Como*
- June 2016: Université Paris 7 - Séminaire de Géométrie
- May 2015: Université Paris 13 - Institut Galilée, *Séminaire de Topologie Algébrique*
- April 2014: EPFL - Lausanne, *Geometry and dynamical systems seminar*
- February 2014: UFC - Fortaleza, *VII Workshop on Geometric Analysis*
- April 2013: Université Paris 13 - Institut Galilée *Journée du LAGA*
- march 2013: Université de Cergy-Pontoise, *Séminaire Géométrie, EDP et Physique Mathématique*
- February 2013: Université Paris 6, Journée du projet ANR: *ACG - Aspects Conformes de la Géométrie*
- October 2012: Université Paris 13 - Institut Galilée, *Groupe de travail EDP non-linéaires*
- August 2012: Banff, Canada, BIRS workshop: *Recent trends in geometric and non linear analysis*
- February 2012: Université de Nice, *Séminaire d'Analyse et Géométrie*
- January 2012: Université de Nancy, *Journées Nancéiennes de Géométrie*
- May 2011: University of Helsinki, *Geometrisen analyysin seminaari*
- march 2011: Université de Cergy-Pontoise, *Séminaire Géométrie, EDP et Physique Mathématique*
- February 2011: Università di Milano Bicocca, *1st Bicocca HART: Harmonic Analysis and Related Topics*
- June 2009: Centro De Giorgi, Pisa, *Geometric flows and geometric operators*

 Invited (one week or more)

- 23-27 September 2019: Banach center, IMPAN, Warsaw.
- 23-27 October 2017: Politecnico di Torino
- 8-12 February 2016: Université de Fribourg
- 9 February - 3 march 2015: Università dell'Insubria Como
- 9-23 February 2014: UFC - Fortaleza
- 19-27 May 2011: University of Helsinki

FELLOWSHIPS, AWARDS, GRANTS AND RESPONSABILITIES

- Premio Giovani Talenti, Università di Milano Bicocca. *Secondo premio ambito 1 (scienze matematiche e informatiche, ingegneria industriale e dell'informazione)*
- Participant in the project Germaine de Staël 2018-2019 *Rigidity of hyperbolic manifolds with convex boundary*,
- Délégation CNRS, first semester 2017/2018.
- In 2016, principal (and unique) investigator of the grant *PEPS Insmi Jeunes chercheurs(-ses)*
- In 2015/2016, scientific supervisor of the post-doc position held by Michele Rimoldi (a post-doc position in Paris 13 funded by FSMP - Fondation Sciences Mathématiques de Paris).
- In January 2012, *INDAM Fellowships in Mathematics and/or Applications for Experienced Researchers cofunded by Marie Curie (type Outgoing)*
- Refereeing activity for : Ann.IHP Analyse non linéaire, Canadian J. of Math., J. Geom. Anal., Manuscripta Math., Math. Research Lett., Potential Anal., Revista Mat. Hiberamericana, J. Math. Anal. Appl., Arkiv för Matematik