

PERSONAL DATA

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First Name: GIONA  
Surname: VERONELLI  
Born: COMO (CO), 19/11/1983  
Nationality: ITALIAN  
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Laboratoire LAGA  
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CURRENT POSITION

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since September 2012 *Maître de Conférences*  
Institut Galilée  
Université de Paris 13  
Laboratoire LAGA

PREVIOUS POSITIONS

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January 2012 *INdAM Fellowships in Mathematics and/or Applications  
for Experienced Researchers cofunded by Marie Curie  
(type Outgoing)*  
Université de Cergy-Pontoise, France  
Laboratoire Analyse, Géométrie et Modélisation  
Oct. 2011- Dec. 2011 demi-ATER, 26th section,  
Université de Cergy-Pontoise, France  
Laboratoire Analyse, Géométrie et Modélisation

EDUCATION

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Oct. 2010 - Sep. 2011 Post-Doc position,  
under the supervision of Prof Emmanuel Hebey,  
Université de Cergy-Pontoise, France  
Laboratoire Analyse, Géométrie et Modélisation  
February 2011 Ph.D. in Mathematics,  
Università degli Studi di Milano, Italy  
Thesis-title: *Some analytic and geometric aspects of the  $p$ -Laplacian*

*on Riemannian manifolds*

Supervisor: Stefano Pigola

- October 2007      Laurea specialistica (master degree) cum laude in Mathematics  
 Università degli Studi dell'Insubria (Como, Italy)  
 Thesis-title: *Ipersuperfici a curvatura media costante in  $\mathbb{H}^n$ :  
 stime di curvatura e topologia all'infinito*  
 Supervisor: Stefano Pigola
- January 2006      Laurea triennale (bachelor) cum laude in Mathematics  
 Università degli Studi dell'Insubria (Como, Italy)  
 Thesis-title: *Caratterizzazione e costruzione di superfici  
 minimali in  $\mathbb{R}^3$*   
 Supervisor: Stefano Pigola
- June 2002          Diploma di Maturità (A-level) with full marks  
 Liceo Scientifico Galileo Galilei (Erba(CO), Italy)

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PUBLICATIONS

- 13)      S. PIGOLA, G. VERONELLI  
*On the homotopy Dirichlet problem for  $p$ -harmonic maps I: compact targets.*  
 to appear in *Geometriae Dedicata*
- 12)      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
- 11)      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 -
- 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
- 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
- 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
- 3) S. PIGOLA, G. VERONELLI  
*Lower volume estimates and Sobolev inequalities*  
PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY  
**138** (2010), no. 12, p. 4479-4486
- 2) G. VERONELLI  
*On  $p$ -harmonic maps and convex functions*  
MANUSCRIPTA MATHEMATICA  
**131** (2010), no. 3-4, p. 537-546, ISSN: 0025-2611, 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, ISSN: 0046-5755, doi: 10.1007/s10711-009-9376-z

#### PREPRINTS

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- S. PIGOLA, G. VERONELLI  
*On the homotopy Dirichlet problem for  $p$ -harmonic maps II: Cartan-Hadamard targets with special structure.*  
(submitted)
- F. FILLASTRE, G. VERONELLI  
*Lorentzian area measures and the Christoffel problem*  
(submitted)
- A. NABER, D. VALTORTA, G. VERONELLI  
*Quantitative regularity for  $p$ -harmonic maps*  
(submitted)

#### WORKSHOPS AND SUMMER SCHOOL: ORGANIZATION

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|--------------------|--|
| 10 Jan 2014        | COMO, ITALY<br>Workshop <i>A geometry day in Como 2014</i><br>Talks by : F. Bonsante, F. Coda-Marques, I. Holopainen, N. Gigli, C. Mantegazza, M. Rigoli.                        |
| 29 Sep- 4 Oct 2013 | CENTRO VOLTA, COMO, ITALY<br>School <i>Geometric Analysis on Riemannian and singular metric spaces</i><br>Mini-courses by : S. Alexander, G. Carron, E. Hebey, U. Lang, A. Neves |

11 Jan 2013      Scientific Committee : G. Besson, S. Pigola, A. Setti, M. Troyanov.  
 COMO, ITALY  
 Workshop *A geometry day in Como 2013*  
 Talks by : A. Ghigi, J. Lira, A. Naber, M. Troyanov.

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 TALKS AND SEMINARS
 

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April 2014      EPFL - LAUSANNE  
 Geometry and dynamical systems seminar  
 Invited talk

February 2014      UFC - FORTALEZA - BRASIL  
 VII Workshop on Geometric Analysis  
 Invited talk

April 2013      UNIVERSITÉ PARIS 13 - INSTITUT GALILÉE  
 Journée du LAGA  
 Invited talk

March 2013      UNIVERSITÉ DE CERGY-PONTOISE  
 Séminaire Géométrie, EDP et Physique Mathématique  
 Invited talk

February 2013      UNIVERSITÉ PARIS 6  
 Journée du projet ANR: *ACG - Aspects Conformes de la Géométrie*  
 Invited talk

October 2012      UNIVERSITÉ PARIS 13 - INSTITUT GALILÉE  
 Groupe de travail EDP non-linéaires  
 Invited talk

August 2012      BANFF, CANADA  
 BIRS workshop: *Recent trends in geometric and non linear analysis*  
 Invited talk

Février 2012      UNIVERSITÉ DE NICE, FRANCE  
 Séminaire d'Analyse et Géométrie  
 Invited talk

February 2012      UNIVERSITÉ DE NICE, FRANCE  
 Séminaire d'Analyse et Géométrie  
 Invited talk

January 2012      UNIVERSITÉ DE NANCY, FRANCE  
 Journées Nanciennes de Géométrie  
 Invited talk

May 2011      UNIVERSITY OF HELSINKI, FINLAND  
 Geometrisen analyysin seminaari  
 Invited talk

March 2011      UNIVERSITÉ DE CERGY-PONTOISE, FRANCE  
 Séminaire Géométrie, EDP et Physique Mathématique

February 2011      UNIVERSITÀ DI MILANO BICOCCA, ITALY

- 1st Bicocca HART  
*Harmonic Analysis and Related Topics*  
 Invited talk
- June 2009      CENTRO DE GIORGI, PISA, ITALY  
*Geometric flows and geometric operators*  
 Contributed talk

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 WORKSHOPS AND SUMMER SCHOOLS: PARTICIPATION
 

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- Sep-Déc 2012      IHP, PARIS ET NANTES  
 thematic trimester  
*Conformal and Kähler geometry*
- Août 2012      BANFF, CANADA  
 BIRS workshop  
*Recent trends in geometric and nonlinear analysis*
- Juin 2012      ICTP, TRIESTE, ITALIE  
*ICTP/ESF School and Conference on Geometric Analysis*
- February 2011      UNIVERSITÀ DI MILANO BICOCCA, ITALY  
 1st Bicocca HART  
*Harmonic Analysis and Related Topics*
- June-July 2010      CETRARO (CS), ITALY  
 CIME course on  
*Ricci Flow and Geometric Applications*
- May 2010      DRESDEN UNIVERSITY OF TECHNOLOGY, GERMANY  
 The 8th AIMS Conference on  
*Dynamical Systems, Differential Equations and Applications*
- September 2009      UNIVERSITÀ DI CAGLIARI, ITALY  
*A harmonic map fest*
- June 2009      CENTRO DE GIORGI, PISA, ITALY  
*Geometric flows and geometric operators*
- April 2009      VERBANIA, ITALY  
 Riemann International School of Mathematics  
*Advances in number theory and geometry*
- September 2008      UNIVERSITÀ LA SAPIENZA, ROMA, ITALY  
*Global Analysis on Manifolds*
- May 2008      UNIVERSITÀ LA SAPIENZA, ROMA, ITALY  
*Recent Advances in Geometry and Topology of Submanifolds*
- March 2008      CENTRE DE RECERCA MATEMATICA,  
 BELLATERRA (BARCELONA), SPAIN  
*Advanced Course on  
 Geometric Flows and Hyperbolic Geometry*

August 2006

PERUGIA, ITALY

*SMI (Scuola Matematica Interuniversitaria)*

Differential Geometry — Algebraic Geometry