

Curriculum Vitæ of Stefano Francaviglia (December 4, 2009)

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PERSONAL DATA

Stefano Francaviglia, Italian, born 19/08/1973 in Pistoia, It; address: Dip. di Matematica, p.zza Porta San Donato 5, 40126 Bologna; phones: +39 051 2094402, +34 600 85 83 25, +39 333 9417479; e-mail: francavi@dm.unibo.it
Languages known: Catalan, English, French, Italian, Portuguese, Spanish.
Research fields: Geometry and topology. Geometric group theory

POSITIONS AND TITOLS

since 01/11/2008. Researcher at the University of Bologna, Italy.
02/2007 - 10/2008. Research fellow at the DMA of the University of Pisa, Italy.
02/2005 - 01/2007. Postdoc Marie Curie at the UAB (Barcellona, SP.)
21/05/2004. PhD in Mathematics at SNS of Pisa (punctuation: 70/70 cum laude.)
07/2003 - 02/2005. INdAM researcher at the DMA of the University of Pisa, IT.
01-06/2003. Research fellow C.R.M. through the program *Marie Curie Training site* (Barcelona, SP.)
16/07/1998. *Laurea in Matematica* at the University of Pisa (punctuation: 110/110 cum laude.)

FOUNDED RESEARCH PROJECTS AND GRANTS

2009 - 2010 "Azione Integrata Italia-Spagna". Investigator. 22.560 Euros.
02/2007 - 01/2008. Marie Curie Reintegration Grant. Principal Investigator. 40.000 Euros.
01-12/2003. INdAM research project *Flussi di metriche e convergenze di Varietà*. Investigator. 12.000 Euros.

TEACHING

Since 2009. Regular teaching at the Bologna University; Mathematics Degree courses of Geometry and Algebra.
1999 - 2009. Collaborations to the teaching activity of the SNS and the University of Pisa. Courses of Linear Algebra, Geometry, Logic, Analysis. External collaborations with UMI for stages for preparation to Mathematical Olympic Games. Teaching activity in the Prison of Pisa.

PUBBLICATIONS

1. (with A. Martino) The isometry group of Outer space. Preprint, December 2009 (arXiv:0912.0299.)
2. (with A. Martino) Metric properties of Outer space. Preprint, March 2008 (arXiv:0803.0640.)
3. (with J. Lafont) Asymptotic cones, bi-Lipschitz ultraflats, and the geometric rank of geodesics. Preprint, January 2008 (arXiv:0801.3636.)
4. (with J. Porti) Rigidity of representations in $SO(4, 1)$ for Dehn fillings on 2-bridge knots. *Pacific Journal of Mathematics* 238 (2008), No. 2, 249-274.
5. Geodesic currents and length compactness for automorphisms of free groups. *Trans. of AMS* 361(1) 2009, 161-176.
6. (with B. Klaff) Maximal volume representations are Fuchsian. *Geometriae Dedicata*, 117:111-124, 2006.
7. Constructing equivariant maps for representations. *Ann. Inst. Fourier* (2009) 59(1):393-428.
8. Algebraic and geometric solutions of hyperbolicity equations. *Topology and its Applications*, 145(1-3):91-118, 2004.
9. *Hyperbolicity equations for cusped 3-manifolds and volume-rigidity of representations*. PhD thesis, Scuola Normale Superiore, Pisa, 2003. Further published in *Tesi*, vol. 2, Edizioni Scuola Normale Superiore di Pisa, 2005.
10. Hyperbolic volume of representations of fundamental groups of cusped 3-manifolds. *Int. Math. Res. Not.*, (9):425-459, 2004.
10. Similarity structures on the torus and the Klein bottle via triangulations. *Advances in Geometry*, 6(3):397-421, 2006.
12. Tautness of codimension-1 foliations in dimension 3 and transversality with embedded surfaces. *Rend. Accad. Naz. Sci. XL Mem. Mat. Appl.* (5), 24:121-157,

PARTECIPAZIONI TO CONFERENCES

45 partecipazioni; of whose: 1 as main speaker, 3 as invited speaker, 3 as speaker.

Others Math Activities

Referee and Reviewer for international journals.