Leonardo Bagaglini

Address: Via Colle Noce 17, Velletri, Roma, Italy Phone: +39 392-74-36-042 E-mail: leonardo.bagaglini@gmail.com Born: May 19, 1990—Velletri (RM), Italy



Education

Currently	Post-graduated course in Meteorology and Physical Oceanography, "Università degli Studi
engaged in	del Salento" and "Università degli Studi di Napoli Parthenope", Napoli, Italy.
2014-2017	DOCTOR OF PHYLOSOPHY in Mathematics, "Università degli Studi di Firenze", Firenze, Italy.
	Thesis: Nilmanifolds, submanifolds and flows related to classes of G_2 -structures.
	Supervised by Prof. Fino Anna Maria. Defended on March 6th 2018.
2016-2017	Visiting scholar at "Università degli Studi di Torino", Torino, Italy.
2012-2014	MASTER DEGREE in Mathematics, "Università degli Studi di Roma: Tor Vergata", Roma, Italy.
	Final mark: 110 cum laude /110.
	Thesis: Holonomy groups with irreducible representations.
	Supervised by Prof. Nacinovich Mauro.
2009-2012	BACHELOR DEGREE in Mathematics, "Università degli Studi di Roma: Tor Vergata", Roma Italy.
	Final mark: 110 cum laude /110.
	Thesis: Myers's Theorem and invariant metrics on Lie groups.
	Supervised by Prof. Iannuzzi Andrea.

Research articles and preprints

2018	A energy functional on the universal spinor bundle. (preprint),
	arxiv:1712.06398.
	arXiv:1709.06356.
2018	The Laplacian co-flow on almost abelian Lie groups, with A. Fino. Annali di Matematica. https://doi.org/10.1007/s10231-
	018-0753-9
2017	Laplacian co-flow on the Heisenberg group (submitted), with A. Fino and M. Fernández,
	arXiv:1704.00295.
2017	Non orientable three-submanifolds of G_2 -manifolds. DOI 10.1515/advgeom-2018-0023. (to appear
	in "Advances in Geometry") arXiv:1609.01557.
2017	A flow of isometric G_2 -structures. Short-time existence. (submitted),
2016	Coclosed G_2 -structures inducing nilsolitons, with A. Fino and M. Fernández,
	Forum Mathematicum https://doi.org/10.1515/forum-2016-0238.
2015	Invariant cocalibrated G_2 – structures on nilmanifolds (preprint) arXiv:1509.01971.

Research Seminars

2018	Nilmanifolds, submanifolds and flows related to classes of G_2 -structures. Ph.D. defence.
	March 6 2018. Università degli Studi di Firenze, Firenze, Italy.
2018	A constrained heat flow of G_2 -structures.
	January 24 2018, Informal Geometry Workshop in "Paradiso", Cogne (AO), Italy.
2017	Flows of co-closed G_2 -structures.
	April 2017, Differential Geometry Days, "Università degli Studi di Torino", Torino, Italy.
2016	Laplacian co-flow of G_2 -structures and non-orientable submanifolds.
	September 27 2016, "Università degli Studi di Firenze", department of Mathematics, Firenze, Italy.
2015	Invariant G_2 -structures on homogeneous manifolds.
	October 30 2015, "Università degli Studi di Firenze", department of Mathematics, Firenze, Italy.
2015	S-regular functional calculus for bounded operators.
	May 28 2015, "Universtà degli Studi di Firenze", department of Mathematics, Firenze, Italy.

Awards

²⁰¹⁴ Full doctoral scholarship. Università degli Studi di Firenze.

Teaching activity

Teaching assistant

 ²⁰¹⁶ Course in Topology undergraduate course, Department of Mathematics, University "Università degli Studi di Firenze", Firenze, Italy.
²⁰¹⁴ Course in Geometry undergraduate course, Department of Material Sciences, University "Università degli Studi di Roma: Tor Vergata", Roma, Italy.
²⁰¹⁴ Course in Calculus (IV) undergraduate course, Department of Mathematics, University "Università degli Studi di Roma: Tor Vergata" Roma, Italy.

Additional informations

Park volunteer	"Parco Nazionale di Abruzzo, Lazio e Molise", Abruzzo, IT.
	"Parco delle foreste casentinesi", Emilia Romagna, IT
Volunteer	"ICN Italian Climate Network" member.
	"AC Cavata Flumen" volunteer.

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