

Alberto Vezzani

CONTACT INFORMATION	Dipartimento di Matematica "F. Enriques" via Cesare Saldini 50 20133 Milan - Italy	<i>E-mail:</i> alberto.vezzani@unimi.it <i>Web page:</i> users.mat.unimi.it/users/vezzani
NATIONALITY	Born on 20 September 1986, Milan (Italy). Citizenship: Italian.	
EXPERIENCE	Dipartimento di Matematica "F. Enriques" - Università degli Studi di Milano RTD-b, Milan. October 2020 - Today	
	LAGA - Université Paris 13 Maître de conférences in Mathematics (Section 25), Villetaneuse. September 2016 - September 2020	
	Fondation Sciences Mathématiques de Paris Postdoctoral researcher at the IMJ-PRG, Paris. October 2015 - September 2016	
	Centre Henri Lebesgue Postdoctoral researcher at the IRMAR, Rennes. September 2014 - September 2015	
EDUCATION	Universität Zürich, Zurich - Università degli Studi di Milano, Milan Ph.D., Mathematics - Cotutelle program January 2011 - August 2014 <ul style="list-style-type: none">• Defense Date: 28 July 2014• Thesis Title: A Motivic Version of the Theorem of Fontaine and Wintenberger• Supervisors: Prof. Joseph Ayoub and Prof. Luca Barbieri Viale	
	Università degli Studi di Milano, Milan M.Sc., Mathematics September 2008 - July 2010 <ul style="list-style-type: none">• Graduation Date: 22 July 2010• Final Grade: 110/110 <i>cum Laude</i>• Thesis Title: The Geometry over the Field with One Element• Advisor: Prof. Luca Barbieri Viale• Semester in Leiden (Netherlands) with the Erasmus Mobility Program	
	B.Sc., Mathematics September 2005 - July 2008 <ul style="list-style-type: none">• Graduation Date: 21 July 2008• Final Grade: 110/110 <i>cum Laude</i>• Thesis Title: Highly Transitive Permutation Groups• Advisor: Dr. Emanuele Pacifici	
RESEARCH OVERVIEW	My areas of research include arithmetic geometry and homotopy theory, and the interaction between the two. In particular, I investigate the categories of derived mixed motives attached to algebraic, analytic and perfectoid varieties with the aim of proving new results in p -adic Hodge Theory. Keywords: <ul style="list-style-type: none">- Rigid analytic geometry- Rigid cohomology- Perfectoid spaces- Mixed motives- Homotopy theory- p-adic Hodge Theory	

PUBLICATIONS AND RESEARCH	[10] <i>The de Rham-Farugues-Fontaine cohomology (with A.-C. Le Bras)</i> Submitted. arXiv:2105.13028 [math.AG]	2021
	[9] <i>The six-functor formalism for rigid analytic motives (with J. Ayoub and M. Gallauer)</i> Submitted. arXiv:2010.15004 [math.AG]	2020
	[8] <i>Non-archimedean hyperbolicity and applications (with A. Javanpeykar)</i> J. Reine Angew. Math. Published Online: 1–29 (2021)	2018
	[7] <i>Rigidity for rigid analytic motives (with F. Bambozzi)</i> J. Inst. Math. Jussieu. Published online: 1–29 (2019).	2019
	[6] <i>The Berkovich Realization for Rigid Analytic Motives</i> J. Algebra 527: 30–54 (2019)	2019
	[5] <i>A Motivic Version of the Theorem of Fontaine and Wintenberger</i> Compos. Math. 155(1): 38–88 (2019)	2019
	[4] <i>Rigid cohomology via the tilting equivalence</i> J. Pure and Applied Alg., 223-2: 818–843 (2019)	2019
	[3] <i>The Monsky-Washnitzer and the overconvergent realizations</i> Int. Math. Res. Not. IMRN, no. 11: 3443–3489 (2018)	2018
	[2] <i>Effective motives with and without transfers in characteristic p</i> Adv. Math., 306: 852–879 (2017)	2017
	[1] <i>Deitmar’s versus Toën-Vaquié’s Schemes over \mathbb{F}_1</i> Math. Z., 271-3: 911–926 (2012)	2012
SELECTION OF CONFERENCE TALKS	Conference “p-adic automorphic forms and perfectoid spaces”, Bangalore (IN) • <i>Cohomologies for rigid analytic varieties via motivic homotopy theory</i>	September 2019
	Mini-conference “Motives and Algebraic Cycles”, Freiburg • <i>Rigidity of Rigid Analytic Motives</i>	July 2018
	Spring Lecture Series “Old and New themes in p-adic Cohomology”, Fayetteville (USA) • <i>Cohomological realizations of rigid analytic motives</i>	April 2018
	Conference “Algebraic K-theory and arithmetic”, Bedlewo (PL) • <i>Realizations of rigid analytic motives</i>	August 2017
	Conference “Non-Archimedean geometry, motives and vanishing cycles”, Mittag-Leffler Institute • <i>Realizations of rigid analytic motives and motivic Galois groups</i>	July 2017
	Workshop “Around Motives”, Milan • <i>The rigid realization and motivic Galois groups</i>	November 2016
	Paris-London Number Theory Seminar, Paris • <i>The tilting equivalence and motivic Galois groups</i>	November 2016
	Conference “Fundamental Groups in Arithmetic Geometry”, Paris • <i>The rigid realization and motivic Galois groups</i>	June 2016
	Mini-conférence LAGA Paris 13, Paris • <i>La réalisation surconvergente et de Monsky-Washnitzer</i>	Février 2016
	20th Congress of the Italian Mathematical Society, Siena • <i>L’equivalenza di tilting rigido-analitica motivica</i> Speaker in the Number Theory section.	September 2015

- SAGA - Université Paris Sud 11, Paris**
 • *Le basculement analytique rigide motivique* March 2015
- Seminar "Autour des cycles algébriques", IHP, Paris**
 • *Le basculement analytique rigide motivique* December 2014
- AriVaF Closing Conference, Bordeaux**
 • *The motivic rigid-analytic tilting equivalence* November 2014
- Workshop "p-adic Methods in Number Theory", Milan**
 • *The motivic rigid-analytic tilting equivalence* October 2014
- Conference "Géométrie arithmétique et motivique", Luminy**
 • *A geometrical and a functorial approach to schemes over \mathbb{F}_1* September 2011

Local seminars

- Invited speaker at the weekly seminars of the following universities
 - University of Freiburg
 - University of Bordeaux
 - University of Strasbourg
 - University of Mainz
 - University of Caen
 - University of Toulouse
 - University of Regensburg
 - University of Grenoble
 - IMJ-PRG, Paris 6 (TDN)
 - University of Oslo
 - ENS Lyon
 - IMJ-PRG, Paris 7 (GRFA)
 - University of Zurich
 - University of Montpellier
 - University Paris 11 (SAGA)
 - University of Milan
 - University of Rennes
 - University Paris 13

TEACHING
EXPERIENCE

- Università degli Studi di Milano, Milan**
 • Teacher of the course "Homological Algebra". January 2021 - Today
 • Teaching assistant for the course "Algebra 1". October 2020 - Today
 • Teaching assistant for the course of Mathematics.
 Faculty of Agriculture. November 2010 - February 2011
 • Teaching assistant for the Algebra I course. January 2010 - June 2010
- Université Paris 13, Villetaneuse**
 • Teacher of the course "Mathematics for Engineers" September 2016 - 2020
 • Teacher of the course "Euclidean Spaces" September 2017 - 2020
 • Teaching assistant for the course "Group and representation theory" January 2017 - Today
 • Teacher of the course "Analysis 1 - A" September 2016 - January 2018
- Université de Rennes 1, Rennes**
 • Teacher of the Graduate School course "Adic Spaces and Applications". November 2014
- Universität Zürich, Zurich**
 • Organizer of the Student Seminar in Galois Theory. February 2014 - June 2014
 • Teaching assistant for the Algebra I course. September 2013 - January 2014
 • Teaching assistant for the Algebra I course. September 2012 - January 2013

FUNDINGS AND
RESEARCH GROUPS

- French National Research Agency (ANR)**
 • Member of the ANR project "PERCOLATOR" ANR-14-CE25-0002 (329680 euros). 2017 - 2019
 • Member of the ANR JCJC project "PERGAMO" ANR-18-CE40-0017 (107987 euros). 2018 - Today
 • Member of the ANR project "COLOSS". 2019 - Today
- French National Center for Scientific Research (CNRS)**
 • Research leave at CNRS (*délégation*). January 2020 - June 2020
 • Recipient of a special funding for young researchers PEPS (3000 euros). 2018
 • Recipient of a special funding for young researchers PEPS (1500 euros). 2019
- Istituto Nazionale di Alta Matematica (INdAM), Rome**
National Institute of Higher Mathematics
 • Academic scholarship for Master study (awarded to 10 students). 2008 - 2010
 • Academic scholarship for Bachelor study (awarded to 40 students). 2005 - 2008

SCIENTIFIC DUTIES	Università degli Studi di Milano, Milan	<ul style="list-style-type: none"> • Co-organizer of the conference "The Six-Functor Formalism". • Seminar "Almost Xmas Seminar". 	<p>September 2021 December 2011</p>
		Coorganizer of a workgroup on perfectoid spaces.	
	Centre Henri Lebesgue, Rennes	<ul style="list-style-type: none"> • Part of the Scientific Board for the summer school/conference "Perfectoids". 	July 2019
	Université Paris 13, Villetaneuse	<ul style="list-style-type: none"> • Advisor of the M1 thesis of a student from Paris 13. • Advisor of the M1 thesis of a student from ENS - Lyon. • Coorganizer of the seminar of the number theory group. • Coorganizer of the mini-conferences "Journées arithmétiques à Villetaneuse". 	<p>January 2019 - Today June 2018 2016 - Today 2017</p>
	Fondation Sciences Mathématiques de Paris, Paris	<ul style="list-style-type: none"> • Tutor of an M2 student. 	2017-18
	Université de Rennes 1, Rennes	<ul style="list-style-type: none"> • Workgroup "Moduli of p-divisible groups". 	January 2015 - Today
		Coorganizer with Berdard Le Stum (IRMAR, Rennes) and Matthieu Romagny (IRMAR, Rennes). Workgroup on the results of Scholze-Weinstein.	
LANGUAGES	Italian	<ul style="list-style-type: none"> • Native. 	
	English	<ul style="list-style-type: none"> • Proficient - Cambridge ESOL "Certificate of Proficiency in English" C2, December 2006. 	
	French	<ul style="list-style-type: none"> • Advanced. 	
	German	<ul style="list-style-type: none"> • Intermediate. 	