

PERSONAL INFORMATIONS	Surname: Name: Birth date: Sex: Personal address: Present position: Professional address: Telephone: E-mail:	Caputo Luca 9 October 1981 Male via Santa Maria 56, 56100 Pisa, Italy Postdoctoral researcher Dipartimento di Matematica Applicata, via Buonarroti 1/c, 56127 Pisa, Italy +39 050 2213839 caputo@dm.unipi.it
EDUCATION	Postdoctoral Fellowship (financed by INdAM) Dipartimento di Matematica, Università di Pisa Mentor: R. Dvornicich, Università di Pisa	<i>September 2012 - August 2013</i>
	Research and Teaching Assistantship (A.T.E.R.) XLIM, Département Mathématiques Informatique, Université de Limoges (for research) Département Techniques de Commercialisation, I.U.T. du Limousin (for teaching)	<i>October 2011 - August 2012</i>
	Postdoctoral Fellowship (financed by Région Limousin) XLIM, Département Mathématiques Informatique, Université de Limoges Mentor: A. C. Movahhedi, Université de Limoges	<i>November 2010 - September 2011</i>
	Postdoctoral Fellowship (financed by IRCSET) University College Dublin Mentor: K. Hutchinson, University College Dublin	<i>November 2008 - October 2010</i>
	Ph.D. in Mathematics Università di Pisa - Université de Bordeaux 1 Thesis: <i>On the structure of étale wild kernels of number fields</i> Advisors: R. Dvornicich, Università di Pisa and J.-F. Jaulent, Université de Bordeaux 1 Graduation Grade: Très Honorable Defense place and date: Pisa, 2 April 2009	<i>January 2005 - April 2009</i>
	Laurea in Mathematics (MSc degree) Università di Pisa Thesis: <i>Il problema della classificazione delle estensioni locali: le estensioni di grado p^2 di \mathbb{Q}_p</i> (<i>Classifying local extensions: the extensions of degree p^2 of \mathbb{Q}_p</i>) . Advisor: R. Dvornicich, Università di Pisa Graduation Grade: 110/110 e Lode Defense place and date: Pisa, 28 October 2004	<i>October 2000 - October 2004</i>
HONOURS AND AWARDS	INdAM "A. Schirillo" Postdoctoral Fellowship September 2012-August 2013 Région Limousin Postdoctoral Fellowship November 2010- October 2011 IRCSET Postdoctoral Fellowship November 2008- October 2010	

Universitá di Pisa Fellowship for Ph.D. students 2005-2007

INdAM Scholarship for undergraduate students in Mathematics 2000-2004

TEACHING
EXPERIENCE

I.U.T. du Limousin, France
Teaching assistant

October 2011 - August 2012

Level: First year Bachelor.

Subject: Office automation.

Main activities and responsibilities: Teaching, tutoring students and preparing exercises for exams.

Teaching hours: 192.

Università di Pisa, Italy

October 2007 - June 2008

Teaching assistant (under the direction of V.M. Tortorelli)

Level: First year Bachelor.

Subject: Introduction to set theory, one and several variables calculus (differential calculus and integration), ordinary differential equations and dynamical systems.

Main activities and responsibilities: Teaching, tutoring students and preparing exercises for exams.

Teaching hours: 50.

PUBLICATIONS

Caputo L., Cobbe A., *An explicit candidate for the set of Steinitz classes of tame Galois extensions with fixed Galois group of odd order*, to appear in Proc. London Math. Soc., 2011;

Caputo L., *The Brauer-Kuroda formula for higher S-class numbers in dihedral extensions of number fields*, Acta Arith. 151 n.3 (2012);

Caputo L., *Splitting in the K-theory localization sequence of number fields*, J. Pure Appl. Algebra 215 n. 4 (2010), 485-495;

Caputo L., Nuccio F. A. E., *A criterion for Greenberg's conjecture*, Proc. Amer. Math. Soc. 136 (2008), 2741-2744;

Caputo L., *A classification of the extensions of degree p^2 over \mathbb{Q}_p whose normal closure is a p-extension*, J. Théor. Nombres Bordeaux 19 (2007), 337-355.

PREPRINTS

Caputo L., Movahhedi A., *On the short exact sequence relating the wild and tame kernels*, in preparation, 2012;

Caputo L., Vinatier S., *Erez's theorem revisited*, in preparation, 2012;

Caputo L., *Structure of étale wild kernels of number fields*, in preparation, 2012;

Caputo L., Nuccio F. A. E., *On fake \mathbb{Z}_p -extensions of number fields*, electronic preprint arXiv:0807.1135v2, 2008;

Caputo L., *Existence of integral basis in certain cyclic extensions of $\mathbb{Q}(\zeta_{p^t})$* , preprint of the Università di Pisa, 2006.

SCHOOLS AND
CONFERENCES
ATTENDED

Galois Representations and Arithmetic Geometry (Conference to honour Sir Martin J. Taylor on his 60th birthday), 11-13 July 2012, IMB, Bordeaux, France;

Colloque Jeunes Chercheurs en Théorie des Nombres, 13-15 June 2012, ENS, Lyon, France;

Workshop International NTCCCS, 26-28 April 2012, Université Mohammed Premier, Oujda, Morocco;

Colloque K-théorie et théorie d'Iwasawa, 21-22 October 2011, LMB, Besançon, France;

Biduum Ultramétrique (7-ième édition), 14-15 June 2011, XLIM, Limoges, France;

Progrès récents en théorie des modules galoisiens, 21-25 March 2011, CIRM, Luminy, France;

Colloque Jeunes Chercheurs en Théorie des Nombres, 2-4 June 2010, IRMA, Strasbourg, France;

Autumn School "Towards a p-adic Langlands correspondence", 26-31 October 2009, Universidad de Sevilla, Seville, Spain;

Advanced School and Workshop on p-adic Analysis and Applications, 31 August- 18 September 2009, ICTP, Trieste, Italy;

CMI Summer School on Galois Representations, 15 June- 10 July 2009, University of Hawaii at Manoa, Honolulu, Hawaii, USA;

Second University College Dublin-University of Nottingham Number Theory Day, 2 May 2009, University of Nottingham, Nottingham, United Kingdom;

First University College Dublin-University of Nottingham Number Theory Day, 1 November 2008, University College Dublin, Dublin, Ireland;

Iwasawa 2008, 29 June- 4 July 2008, Augsburg - Kloster Irsee, Germany;

Summer School in Iwasawa Theory, 9-13 August 2007, McMaster University, Hamilton, Canada;

XVIII-èmes Rencontres Arithmétiques de Caen, 26-27 June 2007, Université de Caen, Caen, France;

School and Conference on Algebraic K-Theory and its Applications, 14 May- 1 June 2007, ICTP, Trieste, Italy;

Colloque K-théorie et théorie d'Iwasawa, 29-30 June 2006, Université de Franche-Comté, Besançon, France;

SMI Summer Course in Algebraic Geometry, 15-27 August 2005, Cortona, Italy.

INVITED TALKS

Modules galoisiens de torsion et théorème de Stickelberger, Colloque Jeunes Chercheurs en Théorie des Nombres, ENS, Lyon, France, 15 June 2012;

Racine carrée de la codifférante et théorème de Stickelberger, Workshop International NTCCCS, Oujda, Morocco, 27 April 2012;

Autour d'une conjecture sur les classes de Steinitz des corps de nombres, Séminaire de Théorie des Nombres, Université de Limoges, Limoges, France, 29 November 2011;

Structure des groupes de K-théorie supérieure des corps de nombres, Séminaire de Géométrie Non-Commutative, Université de Toulouse, Toulouse, France, 4 April 2011;

Noyaux sauvages étales des corps de nombres, Séminaire de Théorie des Nombres, Université de Franche-Comté, Besançon, France, 9 March 2011;

Sur la structure des groupes de K-théorie des corps de nombres, Colloque Jeunes Chercheurs en Théorie des Nombres, IRMA, Strasbourg, France, 2 June 2010;

Relations de Brauer et structures galoisiennes dans les extensions diédrales, Séminaire de Théorie des Nombres, Université de Limoges, Limoges, France, 30 November 2009;

Brauer relations, K-Theory, Quadratic Forms and Number Theory Seminar, University College Dublin, Dublin, Ireland, 14 October 2009;

On the structure of étale wild kernels of number fields, Second University College Dublin-University of Nottingham Number Theory Day, University of Nottingham, Nottingham, United Kingdom, 2 May 2009;

Realizability problem for étale wild kernels of number fields, K-Theory, Quadratic Forms and Number Theory Seminar, University College Dublin, Dublin, Ireland, 18 February 2009;

Relations de Brauer pour les nombres de classes supérieurs dans les extensions diédrales, Séminaire de Théorie des Nombres, Université de Caen, Caen, France, 12 December 2008.

EXPOSITORY TALKS

Classi di Chinburg e struttura di moduli di Galois nei campi di numeri, Seminario di Teoria dei Numeri, Università di Pisa, Pisa, 9 June 2011;

Conjectures de Stark (several talks), Groupe de Travail sur les Conjectures de Stark, Université de Limoges, Limoges, France, 2010/11;

Description de Coates pour le K_2 de corps de nombres, Séminaire du Groupe de Travail en Théorie des Nombres, Université de Bordeaux 1, Bordeaux, France, 20 June 2008;

Bases relatives d'entiers dans les extensions de Kummer, Séminaire (des doctorants en théorie des nombres) Jouve-Pazuki, Université de Bordeaux 1, Bordeaux, France, 13 May 2008;

K-teoria degli anelli degli interi e congettura di Vandiver, Seminario sui Campi Ciclotomici, Università di Pisa, Pisa, Italy, 5 December 2007;

Introduction au K_2 des corps de nombres, Séminaire (des doctorants en théorie des nombres) Jouve-Pazuki, Université de Bordeaux 1, Bordeaux, France, 21 March 2007;

Etale wild kernels: from cohomology to arithmetic, Séminaire du Groupe de Travail en Théorie des Nombres, Université de Bordeaux 1, Bordeaux, France, 16 March 2008;

Classificazione delle estensioni di gruppi, Seminario di Algebra, Teoria dei Numeri e Geometria Aritmetica, Università di Pisa, Pisa, Italy, 4 March 2005;

Esistenza delle estensioni di gruppi, Seminario di Algebra, Teoria dei Numeri e Geometria Aritmetica, Università di Pisa, Pisa, Italy, 25 February 2005.

RESEARCH
INTERESTS

- Classical and noncommutative Iwasawa theory of number fields
- K-theory and motivic cohomology of ring of integers of number fields
- Special values of zeta and L-functions of number fields and Lichtenbaum's conjectures
- Additive structure of ring of integers of number fields
- Galois module structure of rings of integers and units and Stark's conjectures

LANGUAGE SKILLS
(SELF-ASSESSMENT)

	Spoken Interaction	Reading	Writing
Italian	Mother tongue		
English	Good	Very good	Good
French	Good	Very good	Good
Spanish	Good	Very good	Good

OTHER ACTIVITIES

- Organizer of a working group on Stark's conjectures at the DMI, Université de Limoges (2010-2011).
- Co-organizer (with G. Peruginelli) of the Seminar of Ph.D. Students in Algebra, Number Theory and Arithmetic Geometry at the Dipartimento di Matematica, Università di Pisa (2005).
- Referee for: Journal de Théorie des Nombres de Bordeaux (since 2011), Journal of Number Theory (since 2012).
- Referee for: Math Reviews AMS (since 2009), Zentralblatt MATH (since 2010).