

## ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

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## **[LUCA MARCHESE] CURRICULUM VITAE**

**INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)**

COGNOME	MARCHESE
NOME	LUCA
DATA DI NASCITA	[ 12, 09, 1981 ]

**INSERIRE IL PROPRIO CURRICULUM  
(non eccedente le 30 pagine)**

Data

29/12/2107

Luogo

MILANO

\*\*\*\*EDUCATION\*\*\*\*

October 2006 - September 2009: PhD student in Mathematics at Université Paris Sud, Orsay, France.

January 2006 - December 2008: Corso di Perfezionamento (PhD program) in Mathematics at Scuola Normale Superiore, Pisa, Italy.

April - August 2005: visiting student at Instituto de Matematica Pura e Aplicada, Rio de Janeiro, Brazil.

October 2000 - September 2005: Corso Ordinario (undergraduate program) in Physics at Scuola Normale Superiore, Pisa, Italy.

\*\*\*\*JOBS\*\*\*\*

September 1, 2011 - : Maître de conférences at LAGA, Université Paris 13.

September 1, 2009 - August 31, 2011: Post-doc at Université de Genève.

\*\*\*\*DIPLOMAS\*\*\*\*

October 23, 2009: joint PhD in Mathematics at Scuola Normale Superiore di Pisa (Diploma di Perfezionamento) and at Université Paris Sud (Diplôme de Docteur en Mathématiques d'Orsay). Notes: 70/70 cum laude (SNS Pisa) and très honorable (Orsay).

December 2005: Diploma di Licenza in Physics at Scuola Normale Superiore di Pisa. Note: 70/70 cum laude.

Mars 2005: Italian Laurea Specialistica in Physics at Università degli Studi di Pisa. Note: 110/110 cum laude.

October 2003: Italian Laurea Triennale in Physics at Università degli Studi di Pisa. Note: 110/110 cum laude.

\*\*\*\*PhD THESIS\*\*\*\*

TITLE: « The Khinchin theorem for interval exchange transformations and its consequences for the Teichmüller flow » .

ADVISORS: Jean-Christophe Yoccoz (Collège de France) and Stefano Marmi (SNS at Pisa).

\*\*\*\*TALKS AT CONFERENCES\*\*\*\*

December 4 - 8, 2017: Affine and one-dimensional dynamics. Aussois (France)

October 16 - 17, 2017: Rencontre Labex sur les Surfaces de Translation, IMT Toulouse.

September 13 - 15, 2017: Workshop in Ergodic Theory and Symbolic Dynamics (with a view towards Number Theory), Queen Mary, University of London.

August 13 - 19, 2017: Just a Little Calculation in Dynamics, Bedlewo, Poland.

June 19 - 23, 2017: Number Theory and Dynamics, KIAS Research Station Program, Home Plus Academy, Muuido, Incheon, Korea.

June 15 - 18, 2017: Workshop on Diophantine Approximation and Homogeneous Dynamics, Haevichi Hotel, Jeju, Korea.

December 14 - 16, 2016: Weihnachtsworkshop on Geometry and Number Theory, KIT, Karlsruhe.

October 10 - 14, 2016: Arbeitsgemeinschaften on Diophantine Approximation, Fractal Geometry and Dynamics, Oberwolfach, Germany.

April 4 - 8, 2016: Renormalization in dynamics, Centro De Giorgi, Pisa.

March 7 - 11, 2016: Substitutions and continued fractions, Universit'e Paris 7, France.

November 22 - 28, 2015: Simons semester workshop on Translation Surfaces and Dynamics, Bedlewo, Poland.

July 20 - August 7, 2015: Summer school and conference on dynamical systems, ICTP, Trieste, Italy.

June 11 - 14, 2013: Continued fractions, Interval exchanges and Applications to geometry, Pisa, Italy.

January 27 - February 1, 2013: Dynamics of Lie groups actions on parameter spaces II, Sde Boker, Israel.

December 16 - 18, 2012: Round table: Frontiers of mathematical physics, JINR, Dubna, Russia.

May 21 - June 8, 2012: Summer school and conference on dynamical systems, ICTP, Trieste, Italy.

Mars 5 - 8, 2012: Inaugural Conference of the Fibonacci Laboratory, Centro de Giorgi, Pisa, Italy.

September 20 - 23, 2011: Second Meeting of the Young Italian Hyperbolicians, Università di Pisa, Italy.

February 18 - 19, 2011: Sistemi dinamici non lineari e applicazioni, Pisa, Italy.

June 14 - 19, 2010: Geometry and Dynamics of Teichmuller Spaces, Bonn, Germany.

May 17 - 19, 2010: Dynamical Systems and Number Theory, Edimbourg, UK.

December 18 - 19, 2008: Workshop on flat surfaces, Orsay, France.

\*\*\*\*TALKS AT SEMINARS\*\*\*\*

September 19, 2017: Centro de Giorgi, Pisa

November 16, 2016: Géométrie et Dynamique dans les espace des modules, IHP, Paris.

January 25, 2016: IM PAN, Warsaw.

February 10, 2015: Università di Pisa.

July 18, 2014: Max Plank Institute, Bonn.

Mai 23, 2014: Université d'Aix-Marseille

April 29, 2014: Seoul National University.

February 24, 2014: Tel Aviv University.

Mars 18, 2013: Université Paris Sud.

Mars 5, 2013: University of Bristol.

Mars 12, 2012: Journée du LAGA, Université Paris 13.

February 21, 2012: Université d'Amiens.

April 13, 2011: UMPA, ENS Lyon.

Mars 30, 2011: KTH Stockholm.

Mars 15, 2011: Università di Pisa.

Mars 9, 2011: Université Paris 13.

February 25, 2011: Université Marseille 3.

June 4, 2010: Université de Bordeaux.

June 19, 2009: CIRM Luminy.

May 13, 2009: University of Warwick.

April 3, 2009: Université Pierre et Marie Curie, Paris.

April 2, 2009: University of Zurich.

November 17, 2008: Université d'Avignon.

\*\*\*\*SCIENTIFIC VISITS\*\*\*\*

September 1, 2017 - February 28, 2018: Laboratorio Fibonacci. Centro di Ricerca Matematica Ennio de Giorgi, Pisa, Italy.

Jan 24 - 30, 2016: IM PAN, Warsaw.

Apr 15 - 23, 2015: Dongguk University, Seoul.

June 1 - July 31, 2014: Max Plank institute, Bonn.

May 1 - 31, 2014: LATP, Université d'Aix-Marseille.

Apr 22 - 30, 2014: Dongguk University, Seoul.

Feb 16 - 27, 2014: Tel Aviv University.

April 22 - 26, 2013: University of Bristol.

Mars 3 - 8, 2013: University of Bristol.

January 14 - 19, 2012: University of Bristol.

\*\*\*\*STUDENTS\*\*\*\*

Spring 2013: supervisor of the mémoire of Nour Hamzaoui, 1-st year student in Master program at Université Paris 13. Defended on June 28, 2013.

\*\*\*\*FOUNDATIONS FOR RESEARCH PROJECTS\*\*\*\*

Research in Paris with Liviana Palmisano at Institut Henri Poincaré (IHP) from 17 April 2017 to 4 June 2017 (6 weeks).

\*\*\*\*SCIENTIFIC DUTIES\*\*\*\*

(1) Organisation of the seminar of Ergodic Theory and Dynamical Systems at LAGA, Université Paris 13 jointly with

-Pierre Berger and Carlos Matheus Santos (2012-2013)

-Pierre Berger (2013-2015)

-Pierre Berger and Nicolas de Saxcé (2015-)

<http://www.math.univ-paris13.fr/equipes/tesd/sem/>.

(2) Referee for the journals

-Annales de l'Institut Henri Poincaré (B) Probabilités et Statistiques,

-Journal of Modern Dynamics,

-Chaos, Solitons and Fractals,

-Ergodic Theory and Dynamical Systems,

-Bulletin of the American Mathematical Society.

(3) Co-organizer with C. Matheus, of the one day workshop Journée surfaces plates.

<http://w3.impa.br/~cmateus/journee.html>

\*\*\*\*TEACHING\*\*\*\*

Academic year 2017-2018. Sabbatical leave (délégation CNRS) from 1 September 2017

to 28 February 2018. Teaching service of 96 hours at Université Paris 13 in spring semester 2018.

Academic year 2016-2017. Teaching at Université Paris 13.

- Calculus (Analyse), 1st year, autumn 2016 (59,25 hours)
- Calculus (Analyse), 1st year, revision spring 2017 (10,5 hours)
- Introduction to Mathematical structures, 1st year, autumn 2015 (54 hours)
- Algebra and Geometry, 3rd year, autumn 2016 (48,75 hours)
- Square tiled surfaces, Master 2nd year, spring 2017 (18 hours)

Academic year 2015-2016. Teaching at Université Paris 13.

- Calculus (Analyse), 1st year, autumn 2015 (86,4 hours)
- Introduction to Mathematical structures, 1st year, autumn 2015 (72 hours)
- Algebra and Geometry, 3rd year, autumn 2015 (48,75 hours)

Academic year 2014-2015. Teaching at Université Paris 13.

- Calculus (Analyse), 1st year, autumn 2014 (147 hours)
- Algebra and Geometry, 3rd year, autumn 2014 (19,5 hours)
- Math tutorial for engineers, 2nd and 4th year, (15 hours)

Academic year 2013-2014

Sabbatical leave (délégation CNRS) from 1 February 2014 to 31 July 2014. Teaching service of 96 hours at Université Paris 13 in Autumn semester.

- Calculus and linear algebra (Algèbre et Analyse), 2nd year, autumn 2013 (78 hours).

-Fourier series (Théorie du signal), 2nd year, autumn 2013 (16,5 hours).

Academic year 2012-2013. Teaching at Université Paris 13.

-Calculus and linear algebra (Algèbre et Analyse), 2nd year, autumn 2012 (42 hours), plus tutoring (11 hours).

-Calculus (Analyse), 1st year, autumn 2012 (36 hours)

-Fourier series (Analyse de Fourier et théorie du signal), 4th year, autumn 2012 (19,5 hours).

-Complex analysis (Analyse complexe), 3rd year, spring 2013 (19,5 hours).

Academic year 2011-2012. Teaching at Université Paris 13.

-Calculus and linear algebra (Algèbre et Analyse), 2nd year, autumn 2011 (78 hours).

-Fourier series (Analyse de Fourier et théorie du signal), 4th year, autumn 2011 (19,5 hours).

-Complex analysis (Analyse complexe), 3rd year, spring 2012 (19,5 hours).

-Statistics (for students in Economy), 2nd year, spring 2012 (15 hours).

September 2009 - August 2011.

Teaching at the Séction de Mathématiques, Université de Genève.

2009-2010: Calculus (Analyse 1), 1st year, autumn 2009.

2009-2010: Calculus (Analyse réelle 2), 2nd year, autumn 2009 and spring 2010.

2010-2011: Calculus (Analyse réelle 2), 2nd year, autumn 2010 spring 2011.



\*\*\*\*PUBLICATIONS\*\*\*\*

**\*\*Published papers\*\***

- (5) P. Hubert, S. Lelièvre, L. Marchese, C. Ulcigrai: « The Lagrange spectrum of some square-tiled surfaces ». To appear in Israel Journal of Mathematics.  
Arxiv:1602.02126.
- (4) M. Artigiani, L. Marchese, C. Ulcigrai: « The Lagrange spectrum of a Veech surface has a Hall ray », Geometry, Groups and Dynamics. Volume 10, Issue 4, 2016, 1287-1337.  
Arxiv:1409.7023.
- (3) P. Hubert, L. Marchese, C. Ulcigrai: « Lagrange spectra in Teichmuller dynamics via renormalization », Geom. Funct. Anal. 25 (2015), no.1, 180-255.  
ArXiv:1209.0183.
- (2) L. Marchese: « Khinchin type condition for translation surfaces and asymptotic laws for the Teichmuller flow », Bull. Soc. Math. France, 140, fascicule 4, 2012, 485-532.  
Arxiv:1003.5887.
- (1) L. Marchese: « The Khinchin theorem for interval exchange transformations », J. Mod. Dyn., Volume 5, No.1, 2011, 123-183.  
Arxiv:1003.5883.

**\*\*Preprints\*\***

- (4) L. Marchese, L. Palmisano: « Full families of generalized interval exchange transformations ».  
Arxiv:1710.05586.
- (3) M. Artigiani, L. Marchese, C. Ulcigrai: « Persistent Hall rays for Lagrange spectra at cusps of Riemann surfaces ».  
Arxiv:1710:02042.
- (2) D. H. Kim, L. Marchese, S. Marmi: « Long hitting time for translation flows and L-shaped billiards ».  
Arxiv:1705.03328.
- (1) L. Marchese, R. Treviño, S. Weil: « Diophantine approximations for translation surfaces and planar resonant sets ».  
Arxiv:1502.05007.

