

Alberto Maspero

@ alberto.maspero@gmail.com

☎ +39 333 330 73 13 (Italian), +33 768 29 22 82 (French)

🌐 <http://www.math.sciences.univ-nantes.fr/~maspero/index.html>

PERSONAL INFORMATION

DATE AND PLACE OF BIRTH: Milan (Italy) | 12 September 1986

NATIONALITY: Italian

CIVIL STATUS: Married

ACTUAL POSITION

NOVEMBER 2015 - Postdoc researcher , **Laboratoire de Mathématiques Jean Leray (LMJL)**,
current University of Nantes, Nantes

Scientific mentors: Prof. Dr. Benoit GREBERT and Prof. Dr. Eric PATUREL

EXPERIENCE

MAY 2015 - Postdoc researcher , **Università la Sapienza di Roma**, Rome

OCTOBER 2015 Granted by ERC Project "HamPDEs"

Scientific mentor: Prof. Dr. Michela PROCESI

DOCTORATE

JANUARY 2011 - PhD in MATHEMATICS,

DECEMBER 2014 **Universität Zürich & Università degli Studi di Milano**, Zurich & Milan

Cotutelle project | Subject: Analysis and Hamiltonian PDE's

Thesis: "Birkhoff Coordinates of Integrable Hamiltonian systems in Asymptotic Regimes "

Advisor: Prof. Dr. Thomas KAPPELER & Prof. Dr. Dario BAMBUSI

Date and Place of Thesis Defence: December 22, 2014, Milan (Italy)

Committee: Prof. Dr. Thomas KAPPELER - Universität Zürich (Supervisor)

Prof. Dr. Dario BAMBUSI - University of Milan (Supervisor)

Prof. Dr. Camillo DE LELLIS - Universität Zürich (Examiner)

Prof. Dr. Antonio PONNO - University of Padua (Examiner)

EDUCATION

- SEPTEMBER 2008 - JULY 2010 Master of Science in MATHEMATICS,
Università degli Studi di Milano, Milan
110/110 *summa cum laude* | Major: Dynamical Systems
Thesis: “Coordinate di Birkhoff per la catena di Toda e limite di infinite particelle”
Advisor: Prof. Dr. Dario BAMBUSI
- SEPTEMBER 2005 - JULY 200 Undergraduate Degree in APPLIED MATHEMATICS
Università degli Studi di Milano, Milan
110/110 *summa cum laude* | Major: Dynamical Systems
Thesis: “Persistenza di tori invarianti in sistemi con simmetrie”
Advisor: Prof. Dr. Dario BAMBUSI
- JULY 2005 Maturity diploma
Liceo Scientifico “M. Curie”, Tradate
Final Grade: 100/100

SCIENTIFIC WORK

PUBLICATIONS

1. “Freezing of energy of a soliton in an external potential”, with D. Bambusi, *Comm. Math. Phys.*, online.
2. “On the convexity of the KdV Hamiltonian”, with T. Kappeler, J.C. Molnar and P. Topalov, *Comm. Math. Phys.*, online.
3. “Birkhoff coordinates for the Toda Lattice in the limit of infinitely many particles with an application to FPU”, with D. Bambusi, *Journal of Functional Analysis*, online.
4. “One smoothing property of the scattering map of the KdV on \mathbb{R} ”, with B. Schaad, *Discrete Contin. Dyn. Syst.*, Vol. 36, no.3, 2016.

PROCEEDINGS

1. “Some analytic results on the FPU paradox”, with D. Bambusi, A. Carati and A. Maiocchi, in “Hamiltonian Partial Differential Equations and Applications”, Fields Communications Series, n.75.

MINICOURSES

- Dec. 2015 “Interaction between discrete and continuous spectrum in dynamical systems”
University of Nantes, 3 hours

TEACHING

Fall sem. 2014	Introduction to Python	1 st year Bachelor in Mathematics	50h	Universität Zürich
Spring sem. 2014	Functional Analysis	1 st year Master in Mathematics	50h	Universität Zürich
Fall sem. 2012	Analysis 1	1 st year Bachelor in Engereering	50h	Università dell’ Insubria
Springl sem. 2012	Analysis 2	1 st year Bachelor in Mathematics	50h	Universität Zürich
Fall sem. 2011	Analysis 1	1 st year Bachelor in Mathematics	50h	Universität Zürich

INVITED TALKS AT WORKSHOP AND CONFERENCES

- SEPTEMBER 2015 XX Congress of UMI: "Nonlinear Analysis and Hamiltonian systems", Siena
JUNE 2015 Conference: "Hamiltonian systems and their applications", Saint Petersburg
DECEMBER 2014 Conference: "KAM theory and Hamiltonian Pde's", Milano
SEPTEMBER 2014 Workshop: "KAM theory and dispersive Pde's", Roma
JUNE 2014 Workshop: "Geometric and Analytic Aspects of Integrable and nearly-Integrable Hamiltonian System", Milano
OCTOBER 2012 Workshop: "Hamiltonian partial differential equations", Roscoff
FEBRUARY 2011 Workshop: "Dynamical Systems and Applications", Pisa

INVITED SEMINARS

- NOVEMBER 2015 invited by Joseph Viola, University of Nantes, Nantes
SEPTEMBER 2015 invited by Marcel Guardia, Polytechnic University of Catalonia, Barcelona
MAY 2015 invited by Luca Biasco, Università Roma Tre, Roma
APRIL 2015 invited by Michela Procesi, Università la Sapienza, Roma
JULY 2011 invited by Massimiliano Berti, Università Statale di Napoli, Napoli

VISITING

- OCTOBER 4-10, 2015 I visited Marcel Guardia at Universitat Politècnica de Catalunya in Barcelona
SEPTEMBER 21-25, 2015 I visited Dario Bambusi at Università Statale di Milano, Milano
FEBRUARY 9-13, 2015 I visited Luis Vega at BCAM in Bilbao

SCHOLARSHIPS AND CERTIFICATES

- 2009 Fondazione Famiglia Legnanese Scholarship.

LANGUAGES

- ITALIAN: Mother tongue
ENGLISH: Fluent
GERMAN: Basic Knowledge
FRENCH: Basic Knowledge

COMPUTER SKILLS

- Basic Knowledge: JAVA, C, Matlab, Git, Github
Intermediate Knowledge: \LaTeX , PYTHON, R.