

Curriculum Vitae

Pierre Berger

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Education:

2008 : IPDE laureat.

2004–2007 : PhD, Collège de France - University Paris XI (Orsay).

2001–2005 : Student at Ecole Normale Supérieure (ENS Paris).

2001–2003 : Master degree with first class honors (Licence 3-Master 1-2)
ENS Paris-University Paris XI (Orsay).

2001 : Admitted to "Ecole Polytechnique" and to "Ecole Normale Supérieure (Paris)".

Research experiences:

10/2009–... : CNRS Reseacher (CR2) at Paris 13 (Villetaneuse, France).

10/2009 : Invited by M. Lyubich for research collaborations (Stony Brook, New York).

08/2009-1/2010 : Invited at IHES (Bures sur Yvette, France).

07/2009-1/2010 : Post doc at MFO (Oberwolfach, Germany).

04/2009 : Invited by A. Rovella for research collaborations (Montevideo, Uruguay).

03/2008-06/2009 : Post doc at IHES (Paris, France).

01/2009 : Invited by M. Benedick for research collaborations (Stockholm, Sweden).

09/2008-02/2009 : Post doc at CRM (Barcelona, Spain).

09/2007-08/2008 : Post doc at University State of New York (Stony Brook, New York).

09/2004-06/2007 : Thesis under the direction of J-C. Yoccoz:
"Persistence of stratifications of normally expanded laminations"

01/2004-07/2004 : Internship at IMPA (Rio de Janeiro) under the direction of M. Viana.

06/2003-12/2003 : Post graduate internship at Collège de France (Paris)
under the direction of J-C. Yoccoz.

Communications:

- 7/2009** : Speaker at ISAAC congress, Imperial college (Londres, UK).
- 7/2009** : Speaker at Dynamische Systeme congress, MFO (Oberwolfach, Germany).
- 5/2009** : Talk at the seminar of dynamical systems, Paris XIII (Paris, France).
- 4/2009** : Talk at the seminar of dynamical systems, (Montevideo, Uruguay).
- 3/2009** : Talk at the seminar of dynamical systems, Paris XI (Paris, France).
- 1/2009** : Talk at the seminar of dynamical systems, KTH (Stockholm, Sweden).
- 12/2008** : Talk at the seminar of dynamical systems, Institut mathématique de Jussieu (Paris, France).
- 10/2008** : Talk at the seminar of dynamical systems and singularity theory, CRM (Barcelona, Spain).
- 7/2008** : Speaker at the Summer School and Conference on Dynamical Systems, ICTP (Trieste, Italy).
- 5/2008** : Talk at the Dynamical Systems Seminar, Northwestern University (Chicago, USA).
- 3/2008** : Talk at the seminar of dynamical systems, (University of Toronto, Canada).
- 11/2007** : Talk at the seminar of dynamical systems, (Cornell University, USA).
- 09/2007** : Talk at the seminar of dynamical systems, IMS (Stony Brook, USA).
- 07/2007** : Speaker at the 1st French-Spanish mathematical congress, (Zaragoza, Spain).
- 06/2007** : Talk at the seminar of dynamical systems and arithmetic, IML (Marseille, France).
- 06/2007** : Talk at the seminar of algebra, dynamical systems and topology, CMI (Marseille, France).
- 05/2007** : Talk at the seminar of dynamical systems, Institut mathématique de Jussieu (Paris, France).
- 04/2007** : Two talks at the work shop in Ergodic theory, university Paris Sud (Orsay, France).
- 03/2007** : Talk at the graduate student seminar, university Paris Sud (Orsay, France).

Teaching:

- 1/2010** : Mini course about Non-Uniformly Hyperbolic attractor for surface endomorphisms (Santiago, Chile).
- 10/2009** : Mini course about Non-Uniformly Hyperbolic attractor for surface endomorphisms (Stony Brook, NY).
- 09/2009** : Talk about Smale's Horseshoe to high school student, at the "nuit des chercheurs" Science Ouverte (Drancy, France).
- 04/2009** : Mini course about structural stability of Endomorphisms (Montevideo, Uruguay).
- 2007–2008** : Lecturer in Mathematic, calculus (fall semester) and Differential Equations: Dynamics and Chaos (Spring semester), University State of New York (Stony Brook, USA).
- 2005–2007** : Mathematical adviser at the work shop "Math en Jean's", high school Jean Jaures (Montreuil, France).
- 2006–2007** : Mathematic's teacher, Licence 2, university Paris Sud (Orsay, France).
- 2005–2006** : Mathematic's teacher, Licence 1, university Paris Sud (Orsay, France).
- 2001–2005** : Mathematic's trainer in preparatory classes to the Grandes Ecoles, Fénelon St Marie (Paris, France).

Skills, Interests and Experience:

- Fluent **French** and **English**, adequate **Brazilian Portuguese** and **Spanish** and some **Italian**.
- **Sculpture** and **drawing** at the Ecole Nationale Supérieure des Arts Décoratifs (Paris).
- Federal **Sailing** instructor (1st and 2nd degree) for coastal and offshore cruising (les Glénans).

The following have agreed to provide references:

- **Mikhail Lyubich**, mlyubich ((at)) math.sunysb.edu
- **Enrique Pujals**, enrique ((at)) impa.br
- **Jean-Christophe Yoccoz**, jean-c.yoccoz ((at)) college-de-france.fr

References

- [1] P. Berger, Persistence des stratifications de laminations normalement dilatées, 6/2007, 151 p., *Thèse Université Paris Sud*, <http://www.math.sunysb.edu/~berger>, 155 p.
- [2] P. Berger, Persistence of stratifications of normally expanded laminations, C. R. Math. Acad. Sci. Paris, vol. 346 n 13-14, 2008, 6 p.
- [3] P. Berger, Persistence of laminations, *to appear in Bulletin of the Brazilian Mathematical Society*, (accepted 01/2009), 49 p.
- [4] P. Berger, Persistence of stratifications of normally expanded laminations, *to appear in Mémoire de la société mathématique de France*, (accepted 03/2009), 130 p.
- [5] P. Berger, Persistence des sous-variétés à bord et à coins normalement dilatées, *to appear in Annale de l'institut Fourier*, 23 p.
- [6] P. Berger, Differential equation and chaos, introductory book for undergraduate student, <http://www.math.sunysb.edu/~berger>, 61p.
- [7] P. Berger, Structural stability of attractor-repellor endomorphisms with singularities, *to appear in Ergodic theory and dynamical system*, 37 p.
- [8] P. Berger, Persistent bundle over a two dimensional compact set, submitted in 01/2009, 20 p.
- [9] P. Berger, Abundance of one dimensional non uniformly hyperbolic attractors for surface endomorphisms, *arxiv*, posted in 03/2008, 67 p.
- [10] P. Berger, Basin of one dimensional non uniformly hyperbolic attractors of surface endomorphisms, in preparation with M. Benedicks.
- [11] P. Berger-A. Rovella, structural stability of the inverse limit of endomorphisms, in preparation.
- [12] P. Berger, New examples of non uniformly hyperbolic dynamical system, in preparation.