

CURRICULUM VITAE

PIERRE BERGER

CNRS-IMJ-PRG
Sorbonne University
Pierre.Berger ((at)) imj-prg.fr
`webusers.imj-prg.fr/~pierre.berger/`
+33 06 52 41 50 60

EDUCATION AND AWARDS

- | | |
|-----------|---|
| 2019 | Principal investigator of ERC project Emergence of Wild Differentiable Dynamical Systems. |
| 2018 | Speaker at 19th International Congress on Mathematical Physics (Montréal). |
| 2017 | Conference at mathematica a la Residencia de Estudiantes (Madrid). |
| 2017 | Habilitation à diriger des recherches (University Paris XIII): ‘Chaotic Properties of differentiable dynamical systems’. |
| 2016 | Speaker at 5ve Congreso Latinoamericano de Matemáticos. |
| 2016 | Speaker at 1st Congress of the French Mathematical Society. |
| 2016 | Author of the exhibition ‘view in spaces’ 7th European Congress of Mathematics (Berlin). |
| 2015 | Invited as a young scientific leader for the Simons Foundation Award at Banach Center (Warsaw). |
| 2008 | IPDE laureat (IHES, CRM, Banach Center). |
| 2004–2007 | PhD at Univ. Paris XI under the direction of J-C. Yoccoz: “Persistence of stratifications of normally expanded laminations” |
| 2001–2003 | Master degree with first class honors ENS-Univ. Paris XI. |
| 2001–2005 | Student at Ecole Normale Supérieure (Paris). |

POSITIONS AND LONG TERM VISITS

09/2019	Directeur de recherche CNRS (DR2) at Institut Mathématique de Jussieu (Sorbonne Université).
05/2019	Invited by D. Turaev (Imperial College, London).
12/2018	Invited by J. Bochi (PUC, Santiago).
1/2018	Invited by J. Bochi (PUC, Santiago).
10/2017-11/2017	Invited by M. Lyubich (SUNY-SB) and E. Pujals (CUNY).
1/2016-2/2016	Invited by E. Pujals at IMPA (Brazil).
11/2015-12/2015	Invited as a young scientific leader for the Simons Foundation Award at IPAN (Warsaw).
10/2015-11/2015	Invited to SUNY SB by M. Lyubich, (New York).
1/2015-02/2015	Invited to IMPA by E. Pujals and L. Velho, IMPA (Brazil).
12/2013-2/2014	Visit at IMPA as part of the RFBM and the Palis Balzan project.
11/2013-...	CNRS Reseacher (CR1) at LAGA, Paris 13 (Villetaneuse).
1/2013-2/2013	Visit at IMPA, RFBM and the Palis Balzan project.
11/2012-11/2013	CNRS Reseacher (CR2) at LAGA Paris 13 (Villetaneuse).
11/2010-10/2012	CNRS Reseacher (CR2) at IMPA (Rio de Janeiro).
06/2010	Invited to “Dynamics and PDE’s” program (Mittag Leffler).
02/2010	Invited by M. Viana for research collaborations at IMPA.
10/2009-10/2010	CNRS Reseacher (CR2) at Paris 13 (Villetaneuse).
10/2009	Invited by M. Lyubich for research collaborations (New York).
08/2009-1/2010	Invited at IHES (Bures-sur-Yvette).
07/2009-1/2010	Post doc at MFO (Oberwolfach).
04/2009	Invited by A. Rovella (Montevideo).
03/2008-06/2009	Post doc at IHES (Paris).
01/2009	Invited by M. Benedick for research collaborations (Stockholm).
09/2008-02/2009	Post doc at CRM (Barcelona).
09/2007-08/2008	Post doc at University State of New York (Stony Brook).
09/2004-06/2007	Thesis under the direction of J-C. Yoccoz.
01/2004-07/2004	Internship at IMPA (Rio de Janeiro) under the direction of M. Viana.
06/2003-12/2003	Post-graduate internship under the direction of J-C. Yoccoz.

RESEARCH MINI-COURSES AT INTERNATIONAL CONFERENCES AND SEMESTERS

11/2021	Mini-Course on bifurcation at CIMPA school, at COMSATS university, Lahore campus, (Pakistan).
10/2020	Mini-Course on Renormalization nearby homoclinic tangencies, at SUNY SB (USA).
06/2017	Mini-Course on Parablenders, at the conference Beyond Uniform hyperbolicity, at BYU (USA).
05/2017	Mini-Course on Paradynamics and Emergence dynamical semester's IPAN (Tehran).
03/2017	Mini-Course on NUH Hénon maps and Emergence, Kanto's dynamics days (Tokyo Univ.).
09/2016	Mini-Course on Emergence and paradynamics, Escola Brasileira de Sistemas dinamicos (Campinas).
11/2015	Mini-Course on Differentiable dynamics near and far from homoclinic bifurcations Simon's Semester (INPAM, Warsaw).
10/2015	Lectures on Newhouse phenomena and its generalization, SUNY SB (New York).
4/2012	Mini-course on Non-Uniformly Hyperbolic attractor for surface endomorphisms, Summer school, IMPA (Rio de Janeiro).
1/2010	Mini-course about Non-Uniformly Hyperbolic attractor for surface endomorphisms, NUH days at PUC (Santiago).
10/2009	Lectures-on Non-Uniformly Hyperbolic attractor for surface endomorphisms, SUNY SB (New York).
04/2009	Mini-course on structural stability of Endomorphisms (Montevideo).

CONFERENCES AND SEMINARS GIVEN

4/2023	Speaker at "Dynamics of Hénon Maps: Real, Complex and Beyond" (online to Banff, Canada).
1/2023	Seminar given at "Séminaire de système dynamique", (IMJ-PRG, Paris, France).
1/2023	Seminar given at "Séminaire de géométrie et topologie", (IMJ-PRG, Paris, France).
9/2022	Speaker at "Duarte 60 conference" (Rio de Janeiro, Brazil).

8/2022	Speaker at Simon Symposium on Algebraic, Complex and Arithmetic Dynamics (Germany).
3/2022	Speaker at Workshop at Banff, on dynamics and complexity (Canada).
3/2022	Colloquium given at Princeton University, (New Jersey, USA).
2/2022	Speaker at “New trend in Lyapunov exponent”, (Lisboa, Portugal).
9/2021	Speaker at “2nd workshop on wild dynamics”, (Azores, Portugal).
7/2021	Speaker at “Dynamische Systeme”, (MFO, Germany).
6/2021	Talk at Seminar on Dynamical Systems at IMPAN , online, (Varsaw, Poland).
6/2021	Talk at Resistencia matematica, online, (Rio de Janeiro, Brazil).
6/2021	Speaker at Uniformly and non-uniformly hyperbolic dynamics, (CIRM, France).
3/2021	Speaker at Virtual Workshop Many faces of renormalization, at Simon Center, (New York USA).
1/2021	Colloquium given at IMJ-PRG (Paris, France).
12/2020	Seminar at Dyna-Proba, (Amiens, France).
3/2020	Colloquium given at University of Amsterdam, (Amsterdam, Netherland).
2/2020	Speaker at the conference “APLIMAT 2020” (Slovenia).
12/2019	Speaker at the conference “America XII” (CIMAT, Mexico).
12/2019	Speaker at the conference ‘Formalisme thermodynamique : sys. dyn., prop. stat. et leurs app.’ (CIRM, France).
8/2019	Speaker at the conference in memory of A. Katok (Bedlewo, Poland).
7/2019	Speaker at “Dynamische Systeme” (MFO, Germany).
6/2019	Speaker at the conference ”Analytic Low-Dimensional Dynamics”, (Field Institute, Canada).
5/2019	Speaker at the conference ”Beyond uniform hyperbolicity” (CIRM, France).
4/2019	Talk at Warwick dynamical systems seminar (UK).
2/2019	Speaker at ”Dynamical Systems : from geometry to mechanics” (Roma, Italia).

1/2019	Speaker at “Topological methods in dynamics and related to-pics” (Nizhny Novgorod, Russia).
12/2018	Speaker at Conference in Dynamics Valparaíso (Chile).
7/2018	Speaker at XIXth International Congress on Mathematical Physics (Canada).
6/2018	Speaker at International conference on dynamical systems, celebrating the 50's birthday of the Berkley conference, (China).
6/2018	Speaker at the Workshop at ICMS Edinburgh (UK).
6/2018	Speaker at the conference DymtoComp Bedlewo (Poland).
5/2018	Speaker at the school of beKAM at Carthages (France).
5/2018	Speaker at the school of ICTP at Teheran (Iran).
4/2018	Speaker at a conference on surface and dynamics at Bedlewo (Poland).
3/2018	Speaker at a conference on PDE and Ergodic theory at Hiroshima (Japan).
12/2017	Permanent Exhibition at UNAM museum (Mexico).
12/2017	Speaker at the seminar of Dynamical Systems of IMJ (Paris).
12/2017	Conference for la residencia de estudiantes (Madrid).
12/2017	Speaker at ICMAT (Madrid).
11/2017	Speaker at the seminar of Dynamical Systems, SUNY, (NY).
11/2017	Conference at Colloquium of CUNY, (NY).
06/2017	Talk at the seminar of Dynamical Systems, Strasbourg, (France).
05/2017	Tribute to J.C. Yoccoz given with J. Rivera-Letelier, Collège de France.
05/2017	Talk at the seminar of Dynamical Systems, Paris VI.
04/2017	Talk at the seminar of Dynamical Systems, ETH Zurich.
01/2017	Talk at the seminar of Dynamical Systems, Imperial college.
01/2017	Talk at the seminar of Dynamical Systems, Paris VII.
12/2016	Speaker at the congress ‘Anosov 80’, Moscow (Russian Fed).
12/2016	Talk at the seminar of Dynamical Systems, Paris XIII.
07/2016	Exhibition for ‘European Cong. of Math.’, Berlin.
07/2016	Speaker at ‘Cong. Latino Americano de Matematica’, (Colombia).

06/2016	Speaker at '1er CongrÃ¨s de la SociÃ©tÃ© math. de France', Tours (France).
03/2016	Talk at the seminar of dynamical systems, Jussieu, (France).
02/2016	Talk at the seminar of dynamical systems, IMPA, (Brazil).
10/2015	Speaker at the 'journÃ©es dynamiques', Jussieu, (France).
09/2015	Speaker at the congress of FARF III, Porquerolles, (France).
09/2015	Speaker at the congress of Beyond uniform hyperbolicity, Olmue, (Chile).
07/2015	Speaker at the congress of dynamical systems, MFO, (Germany).
05/2015	Talk at the seminar of dynamical systems, Jussieu, (France).
04/2015	Talk at the seminar of dynamical systems, Avignon, (France).
02/2015	Talk at the seminar of dynamical systems, IMPA, (Brasil).
02/2015	Speaker at Workshop Top. & DinÃ¢mica 2015, UFF, (Brasil).
01/2015	Talk at the seminar of dynamical systems, IMPA, (Brasil).
11/2014	Talk at the seminar of dynamical systems, Paris 13, (France).
06/2014	Speaker at 'Hamiltonian Perturbation Theory' (SNP, Pisa).
01/2014	Talk at UMI seminar IMPA (Rio de Janeiro).
09/2013	Talk at 'GT thÃ©orie ergodique' (Orsay).
06/2013	Speaker at "2nd Palis-Balzan Symp. on Dyn. Syst." (IHP, Paris).
06/2013	Speaker at "Dyn. Beyond Unif. Hyp." (Bedlewo).
04/2013	Talk at the seminar of dynamical systems, IMJ (Paris).
06/2012	Speaker at "First Palis-Balzan Symp. on Dyn. Syst." IMPA, (R.J.).
06/2012	Speaker at "Workshop in Dynamical Systems at ICTP" (Trieste).
10/2011	Speaker at "Workshop on Dynamical Systems 2011" (Salvador de Bahia).
10/2011	Talk at universidade da ingeneria (Montevideo).
06/2011	Speaker at "Dynamics Beyond Uniform Hyperbolicity" (CIRM).
4/2011	Lecture on Hirsch-Pugh-Shub Theorem, EDAI (Rio de Janeiro, Brazil).
04/2010	mini course at IMPA (Rio de Janeiro).

04/2010	Talk in “EDAI” at UFRJ (Rio de Janeiro).
06/2010	Speaker in “Dynamics and PDE’s” program (Mittag Leffler, Stockholm).
04/2010	Talk at the seminar of dynamical systems UMPA (Lyon).
03/2010	Talk at the seminar of dynamical systems (Bordeaux).
03/2010	Talk at the seminar of dynamical systems, Paris XIII (Paris).
02/2010	Speaker at Int. Conf. On Dyn. Systems 2010, (Buzios).
10/2009	Talk at the seminar of dynamical systems, SUNY SB (NY).
07/2009	Speaker at ISAAC congress, Imperial college (London).
07/2009	Speaker at Dynamische Systeme congress, MFO (Oberwolfach).
05/2009	Talk at the seminar of dynamical systems, Paris XIII (Paris).
04/2009	Talk at the seminar of dynamical systems, (Montevideo).
03/2009	Talk at the seminar of dynamical systems, Paris XI (Paris).
01/2009	Talk at the seminar of dynamical systems, KTH (Stockholm).
12/2008	Talk at the seminar of dynamical systems, IMJ (Paris).
10/2008	Talk at CRM (Barcelona).
07/2008	Speaker at Conference on Dynamical Systems, ICTP (Trieste).
05/2008	Talk at the Dynamical Systems Seminar, Northwestern Un. (Chicago).
03/2008	Talk at the seminar of dynamical systems, (University of Toronto).
11/2007	Talk at the seminar of dynamical systems, (Cornell University).
09/2007	Talk at the seminar of dynamical systems, IMS (Stony Brook).
07/2007	Speaker at the 1st French-Spanish mathematical congress, (Zaragoza).
06/2007	Talk at the seminar of dyn. syst. and arith., IML (Marseille).
06/2007	Talk at the seminar of alg., dyn. syst. and topo., CMI (Marseille).
05/2007	Talk at the seminar of dynamical systems, IMJ (Paris).
04/2007	Two talks at the GT Ergodic theory, university Paris Sud (Orsay).
03/2007	Talk at the graduate student seminar, university Paris Sud (Orsay).

PROJECTS

3/2023	Co-organizer with Y. Ishii of the French - Japanese Workshop on dynamics of real and complex dynamics of the Hénon maps (Kyoto, Japan).
2022	Co-organizer with Bernhard Reinke of the weekly workshop "dynamiques sauvages", Sorbonne University.
09/2021	Co-organizer with Pedro Duarte of the second workshop on Wild Dynamics (Azores, Portugal).
02/2021	Organizer of "Groupe de travail sur les dynamiques sauvages", CIRM (Marseille, France).
09/2020	Co-organizer with Philip Boalch of "Journée de rentrée de l'IMJ", (Sorbonne Université, France).
09/2020	Co-organizer with Pierre-Antoine Guiheneuf of first workshop on Wild Dynamics (Banyuls, France).
12/2019	Co-organizer with J. Fejoz and Y. Ishii of the French - Japanese Workshop on dynamics of real and complex dynamics of the Hénon maps (Observatoire, Paris).
9/2019	Principal investigator of ERC project Emergence of Wild Differentiable Dynamical Systems.
7/2019	Organizer of the workshop Esthetopies (CIRM, France).
3/2019	Co-organizer with H. Takahashi of the French - Japanese Workshop on dynamics of the Hénon maps, French support by INSMI.
1-3/2019	Organizer of the exhibition Esthetopies at Drancy support by Animath, Fondation Blaise Pascal, FSMP, LAGA, DR1.
05/2017	Co-organizer with S. Crovisier and C. Matheus for the Conference in Memory of J. - C. Yoccoz, supported by ERC, LMO, FMJH, LMO, LAGA, FSMP, Collège-de-France.
2017	Coordinator of the research and exhibition project 'Esthetopies', supported by fond. IHP, Région IDF, Fond. Blaise Pascal.
07/2016	Co-organizer with Andreas Matt of the exhibitions of the main building of the 7th European Congress of Mathematics. Supported by FSMP, INSMI, CNRS, LAGA.
01/2015	Main organizer of the project BRNUH of index UPSC, co-organizer H. Eliasson (Université P7) and E. Pujals (IMPA).

01/2015	Co-Organizer with L. Velho of the permanent exhibit ‘Um Olhar nos Espaços de Dimensão 3’ at MAST, Rio de Janeiro, supported by FAPERJ, Visgraf, IMPA, MAST.
03/2013	Coordinator of the Exhibition project ‘Regards dans les espaces de dimension 3’ supported by Région IdF, Cap’Math, FSMP, Université Paris 13, LAGA.

Member of the program of the Louis D. Price of M. Viana (2016-2018). Member of the Program Balzan Price of J. Palis (2010-2015). Member of the ANR Project ‘Au dela de l’hyperbolicité uniforme’ BLAN08-2-313375, (2009-2012).

MENTORING

2/2023-6/2023	Internship adviser of Zahra Reshadat, Phd student at IPN Tehran.
9/2022-...	Phd Adviser of Odylo Costa.
9/2021-2023	Post-doc Adviser of Bernhard Reinke.
9/2021-2022	Tutor of Pietro Piccione for PGSM (now PhD student with Sébastien Boucksom, CNRS-Sorbonne University).
9/2020-...	Master-Phd Adviser of Mathieu Helfter.
9/2019-2021	Tutor of Thomas Guidoni for PGSM (now PhD student with Penka Georgiova, Sorbonne University).
9/2018-2021	Post-doc Adviser of Sebastien Biebler (now assistant professor at Paris University).
11/2016-2020	PhD adviser of Amin Talebi with M. Nassiri, Paris 13-Sharif university, Teheran (now Post-Doc at IPN, Tehran).
2012	Joint works with P. D. Carrasco, post-doc at IMPA (now assistant professor at UFMG, Brazil).
2011	Joint works with A. Bounemoura, post-doc of IMPA (now permanent researcher at CNRS).
2005–2007	Mathematical adviser at the workshop ‘Math en Jean’s’, high school Jean Jaures (Montreuil, France).

Member of the Jury of the PhD Thesis of: R. Potrie (Advised by S. Crovisier) in 2012, S. Biebler (Advised by R. Dujardin) in 2018, T. Dutilleul (Advised by F. Beguin) in 2019, D. Obata (Advised by S. Crovisier) in 2019. Member of the Jury of the habilitation à diriger des recherches of J. Taffin in 2019.

ACADEMIC RESPONSIBILITIES

9/2019	Principal investigator of ERC project Emergence of Wild Differentiable Dynamical Systems.
2013 - 2019	Co-organizer of the seminar of dynamical systems of Paris 13 university with L. Marchese et N. Desaxcé.
2017	Editor with S. Crovisier, C. Matheus and P. Le Calvez of the volume in 'Memory of J.C. Yoccoz', Gazette des mathématiciens (SMF).
2014	Committee Member of the competition MCF 061, Paris 7 university.
2013-now	Expert, committee member of Paris 13 university.
2013-2015	Committee Member of the competition MCF Paris 13 university.

PUBLICATIONS

Memoirs

- P. Berger, Persistance des stratifications de laminations normalement dilatées, 6/2007, 151 p., *PhD Thesis University Paris Sud*.
- P. Berger, Comportements Chaotiques des systèmes dynamiques différentiables, 2017, 110 p., *HDR hold on 6/2017*.

Articles and books in scientific journals

1. P. Berger, Persistence of stratifications of normally expanded laminations, C. R. Math. Acad. Sci. Paris, vol. 346 n 13-14, (2008), 6 p.
2. —, Persistence of laminations, *Bull Braz Math Soc*, 41(2), (2010), 259-319.
3. —, Persistence of stratifications of normally expanded laminations, *Mémoire de la société mathématique de France*, 134, (2013), 130 p.
4. —, Persistance des sous-variétés à bord et à coins normalement dilatées, *Ann. Inst. Fourier, Grenoble* 61, 1 (2011) 79-104, 23 p.
5. —, Structural stability of attractor-repellor endomorphisms with singularities, *Ergodic Theory and Dynamical Systems*, (2012), no. 1, 1-33.

6. P. Berger -A. Rovella, On the inverse limit of endomorphisms, *Ann. Inst. H. Poincaré Anal. Non Linéaire* 30 (2013), no. 3, 463-475.
7. P. Berger - A. Bounemoura, A geometrical proof of the persistence of normally hyperbolic submanifolds, *Dynamical Systems*, Volume 28, Issue 4, (2013) 17p.
8. P. Berger - P. Carrasco, Non uniformly hyperbolic attractors derived from the standard map, *Communication in Mathematical Physics*, July (2014) v. 329 1, pp 239-262.
9. P. Berger -A. Laier-L. Velho , An image-space algorithm for immersive views, *The Visual Computer*, 1-12, January 18, (2014). 12p.
10. P. Berger -J. de Simoi, Hausdorff dimension of Newhouse phenomena, *Ann. Henri Poincaré* 17 (2016), no. 1, 227-249.
11. P. Berger -C. G. Moreira, Nested Cantor set, *Math. Zeitschrift*, 283 (2016), no. 1-2, p. 419 - 435.
12. P. Berger - A. Kocsard, Structural stability of the inverse limit of endomorphisms, *Annales of Henri Poincaré (C)* , (2016), 34p.
13. M.C. Arnaud and P. Berger, The non-hyperbolicity of irrational invariant curves for twist maps and all that follows, *Revista Matemática Iberoamericana* n° 32.4 (2016) pp. 1295–1310
14. P. Berger - R. Dujardin, On stability and hyperbolicity for polynomial automorphisms of C^2 , *Ann. Scient. Ec. Norm. Sup.*, 4e, 50 , (2017) pp. 447–475
15. P. Berger, Generic family with robustly infinitely many sinks, *Inventiones Mathematicae*, (2016) 205: 121. pp. 1–41
16. —, Emergence and non-typicality of the finiteness of the attractors in many topologies, *Proceeding of the Steklov inst.* (2017) Vol. 297, pp. 1–27.
17. —, Emergence and non-typicality of the finiteness of the attractors in many topologies, *Trudy Matematicheskogo Instituta imeni V.A. Steklova* (2017), Vol. 297, pp. 7–37.

18. —, Persistent bundle over a two dimensional compact set, *accepted to Revista Colombiana de Matemáticas*, (2018), 25p.
19. —, Properties of the maximal entropy measure and geometry of Hénon attractors, *J. Eur. Math. Soc.*, 21 (2019), no. 8, p. 2233–2299.
20. P. Berger - J-C. Yoccoz, Strong regularity, *Astérisque*, 410 (2019), 14p.
21. P. Berger, Abundance of non-uniformly hyperbolic Hénon-like endomorphisms, *Astérisque*, Vol. 410 (2019) 123 p.
22. P. Berger and D. Turaev, On Herman's positive entropy conjecture, *Advances in Mathematics*, Vol. 349, (2019), p. 1234-1288
23. P. Berger, Complexities of differentiable dynamical systems, *Journal of Mathematical Physics*, Vol. 61 n°3, (2020).
24. P. Berger and J. Bochi, On Emergence and Complexity of Ergodic Decompositions, *Advances in Mathematics*, Vol. 390, (2021) 52 p.
25. P. Berger, Generic family displaying robustly a fast growth of the number of periodic points, *Acta Mathematica*, 227 (2021) no. 2 p. 205-262.
26. P. Berger, S. Crovisier and E. Pujals, Germ-typicality of the coexistence of infinitely many sinks, *Advances in Mathematics*, vol. 407, (2022), 42 p.
27. P. Berger and S. Biebler, Emergence of wandering stable components, *Journal of American Math. Soc.* vol. 36, no 2, (2023), p. 397-482.
28. P. Berger, Coexistence of chaotic and elliptic behaviors among analytic, symplectic diffeomorphisms of any surface, *Journal de l'École polytechnique*, Tome 10 (2023), pp. 525-547.
29. P. Berger, A. Florio and D. Peralta-Salas, Steady Euler Flows on R^3 with Wild and Universal Dynamics. *Communications in Math. Physics*, (2023), p. 1-47.
30. P. Berger and D. Turaev, Generators of groups of Hamiltonian maps, *to appear in Israel Journal of Math.*, 11p.

Pre-publications

1. P. Berger, Normal forms and Misiurewicz renormalization for dissipative surface endomorphisms, *arxiv, not submitted*, (2014), 27 p.
2. —, Zoology in the Hénon family: twin babies and Milnor's swallows, *Arxiv* (2018), 42 p.
3. P. Berger, N. Gourmelon and M. Helfter, Every diffeomorphism is a total renormalization of a close to identity map, *ArXiv*, (2022), p.28.
4. P. Berger and B. Reinke, Parametric linearization of skew products, *ArXiv*, (2022), P.24.
5. P. Berger, Analytic pseudo-rotations, *ArXiv*, (2022), P. 34.

Conference proceedings, surveys and general articles for mathematicians

1. P. Berger, Abundance of one-dimensional uniformly hyperbolic attractors for surface endomorphisms, proceeding MFO, (2009) 3 p.
2. —, Generic family with robustly infinitely many sinks, proceeding MFO, (2015) 3 p.
3. P. Berger, S. Crovisier, E. Pujals Iterated Functions Systems, Blenders and Parablenders, *Proc. FARF III*, (2016) 13p.
4. P. Berger, Ésthetopies, *Gazette de la SMF*, oct. (2017) 6p.
5. —, Un élève à l'École d'un Maître, *Gazette de la SMF en hommage à Jean-Christophe Yoccoz*, (2018) 6p.
6. —, Lectures on structural stability, *Simon's Semester volume of Banach Center Publications*, (2018) 28 p.
7. P. Berger- S. Biebler, Emergence of wandering stable open components, proceeding MFO, (2019) 3 p.
8. P. Berger with S. Crovisier and E. Pujals, Germ-typicality of Newhouse phenomenon, proceeding MFO, (2021) 3 p.

Participation to large audience videos and articles

- Author of the article, ‘La théorie du chaos justifie-t-elle un usage constant des statistiques ?’ *Gazette de l’institut Galilée*, (2012).
- Interviewed, *INSMI letter*, January 28 (2013).
- Co-author of an exhibition filmed by Alice Jacquet, ‘Regards dans les espaces de dimension 3’, production FSMP, March (2013).
- Co-author of an exhibition reported by Cesar Baima, ‘Os espaços do Universo em três dimensões’, quotidien Brésilien *O Globo*, January 27 (2015).
- Interviewed on Radio Nacional Rio de Janeiro, Feb. (2015).
- Co-author of the exhibition reported by Valentina Leite, ‘Matemática em três dimensões’, Brazilian scientific magazine *Ciencia Hoje*, March (2015).
- Author of the exhibition at 7ECM reported by *INSMI letter*, July 21 (2016).
- Mathematical work subject of ‘Un chaos bien plus sauvages qu’escompté’, *INSMI letter*, Dec. 3 (2016).
- Interviewed par Francois Beguin, *Images des Mathématiques*, (2017). Interview translated in Italian for the electronic journal *Maddmath*.
- Article reported by Anne Debroise, ‘Le chaos est encore plus chaotique’, *Science & Vie*, Feb. (2017).
- Author of an exhibition reported by Loïc Mangin, ‘La 3D comme vous ne l’avez jamais vue,’ *Pour la Science*, June (2017).
- Subject of the video by Pierre de Parscau , ‘Les noces des mathématiques et des arts’, *Journal du CNRS*, July (2017).
- Author of an exhibition filmed by Jean-Baptiste Fave, documentary ‘Esthétopies’, *production IHP*, July (2017).
- Author of the article ‘Arte multimedia para expresar lo inenarrable de las matemáticas’, apated by Ágata T. Timón for *El País*, March 3 (2018).

EXHIBITIONS

The website on my exhibitions are:

www.espaces-imaginaires.fr and <http://esthetopies.math.cnrs.fr>

- | | |
|-----------------|--|
| 1-3/2019 | Authors of the exhibition Esthetopies at Chateau de Ladoucette, Drancy, with the participation of P.Y. Fave, S. Krakowski, V. Martial, J. Royo-Letelier. |
| 11/2017-... | Permanent exhibition at museum da ciencias UNAM (Mexico), with the sound part in collaboration with J. Royo-Letelier et S. Krakowski. |
| Avril 2017 | Interactive exhibition online: http://esthetopies.math.cnrs.fr |
| March-July 2017 | Author of the exhibition 'Esthétopies' at IHP, with the participation of P.Y. Fave, S. Krakowski, V. Martial, J. Royo-Letelier. |
| July 2016 | Author of the exhibition 'Views in 3-manifolds', with the participation of P.Y. Fave, S. Krakowski, A. Laier, J. Royo-Letelier and L. Velho for the 7th European Congress in Mathematics, Berlin. |
| 2015 | Author of the exhibition 'Espaces Imaginaires' for events at Centquatre-Paris, University Paris 13, the CIJM Place St. Sulpice and in a corridor of Montparnasse subway corridor at Paris. |
| Jan. 2015- ... | Translation of the exhibition 'Regard dans les espaces de dimension 3' into Portuguese (supervised by Luiz Velho) and exhibited permanently to the science museum (MAST) of Rio de Janeiro since January 2015. Exhibition showed at São Paulo during the Lacanian congress ENAPOL in 2015. |
| 2013-2015 | Co-author with P. Y. Fave of the exhibition 'Regards dans les espaces de dimension 3' showed at University P13, 'Journées CNRS Jeunes', Festival 'Savante Banlieue', at 'Nuit des Sciences à l'Ecole Supérieure Paris', at 'Clavim' Issy-les-Moulineaux. The exhibition contains collaborations with A. Laeir, S. Krakowski et L. Velho. |

SKILLS, INTERESTS AND EXPERIENCE

- Fluent **French**, **Brazilian Portuguese** and **English**, adequate **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).