

Curriculum Vitae

Name : Artur Avila Cordeiro de Melo.

Born : June 29, 1979 - Rio de Janeiro - RJ - Brazil.

Citizenship : Brazilian.

Address : Institut für Mathematik, Winterthurerstr. 190, 8057 Zürich, Switzerland.

Email : artur.avila@gmail.com

PhD : IMPA, 2001.

Advisor : Welington de Melo.

Current positions :

Since 2018. Professor at the University of Zürich.

Since 2009. Extraordinary researcher (Cátedra Armínio Fraga) at IMPA, CNRS UMI 2294.

Previous positions :

From 2001 to 2003. Maître de Conférence Associé at the Collège de France.

From 2003 to 2008. Chargé de recherche at the CNRS.

From 2003 to 2006. Attached to the Laboratoire de Probabilités et Modèles Aléatoires (UMR 7599, CNRS, Université Paris Diderot, UPMC).

From 2006 to 2008. On leave.

From 2006 to 2009. Research fellow of the Clay Mathematics Institute, attached to IMPA, CNRS UMI 2294.

Since 2008. Directeur de recherche at the CNRS.

From 2008 to 2009. On leave.

From 2009 to 2018. Attached to the Institut de Mathématiques de Jussieu-Paris Rive Gauche (UMR 7586, CNRS, Université Paris Diderot, UPMC).

From 2018. On leave.

Prizes and honors

Gold medal at the International Mathematical Olympiad, Canada, 1995.

Cours Peccot at the Collège de France, 2005.

Invited address at the ICMP, 2006.

Bronze medal of the CNRS, 2006.

Salem prize, 2006.

Wolff Memorial Lectures, Caltech, 2008.

Invited address at the ECM, 2008

EMS prize, 2008.

Grand Prix Jacques Herbrand of the French Academy of Sciences, 2009.

Porter Lectures, Rice, 2010.

Plenary address at the ICM, 2010.

Blyth Lectures, Toronto, 2011.

Michael Brin prize, 2011.

IAMP Early Career Award, 2012.

Member, Academia Brasileira de Ciências, 2013.

Prêmio da SBM, 2013.

TWAS Prize, 2013.

Bellow Lectures, Northwestern, 2014.

Fields Medal, 2014.

Chevalier de la Légion d'honneur, 2015.

TWAS-Lenovo Science Prize, 2015.

Lojasiewicz Lecture, Krakow, 2017.
 Grande Oficial da Ordem Nacional do Mérito Educativo, 2018.
 Grã-Cruz da Ordem Nacional do Mérito Científico, 2018.
 National Academy of Sciences, Foreign Member, United States, 2019.

Service

Editorial boards :

Ergodic Theory and Dynamical Systems (current).
 Mathematical Proceedings of the Cambridge Philosophical Society.
 Publications Mathématiques de l’IHES.
 Duke Mathematical Journal.
 ERC Starting Grant “Quasiperiodic” (2010-2015).
 SNSF Grant “Dynamical Systems” (2020-2024).

PhD students

Past :

Maria João Resende (IMPA, 2009, coadvisor Marcelo Viana).
 Zhenghe Zhang (Northwestern University, 2014, coadvisor Amie Wilkinson).
 Xiaochuan Liu (IMPA, 2016).
 Xu Disheng (Université Paris Diderot, 2016, coadvisor Julie Déserti).
 Martin Leguil (Université Paris Diderot, 2017, coadvisor Julie Déserti).
 Zhiyuan Zhang (Université Paris Diderot, 2017).

Current :

Yi Pan (Université Paris-Diderot, coadvisor Raphaël Krikorian).
 Pedram Safaee (UZH).
 Fernando Argentiari (UZH).

Papers

Published

- (1) On the dynamics of the renormalization operator.
 Artur Avila, Marco Martens, Welington de Melo. In “Global Analysis of Dynamical Systems : Festschrift dedicated to Floris Takens for his 60th birthday”, Ed. H.Broer, B. Krauskopf, G. Vegter, Institute of Physics Publishing, Bristol and Philadelphia, 2001, pp. 449–460.
- (2) Infinitesimal perturbations of rational maps.
 Artur Avila. *Nonlinearity* 15 (2002), 695-704.
- (3) A formula with applications to the theory of Lyapunov exponents.
 Artur Avila, Jairo Bochi. *Israel Journal of Mathematics* 131 (2002), 125-137.
- (4) Statistical properties of unimodal maps : smooth families with negative Schwarzian derivative.
 Artur Avila, Carlos Gustavo Moreira. *Astérisque* 286 (2003), 81-118.
- (5) Regular or stochastic dynamics in real analytic families of unimodal maps.
 Artur Avila, Mikhail Lyubich, Welington de Melo. *Inventiones Mathematicae* 154 (2003), 451-550.
- (6) Robust transitivity and topological mixing for C^1 -flows.
 Flavio Abdenur, Artur Avila, Jairo Bochi. *Proceedings of the AMS* 132 (2004), 699-705.
- (7) Convergence of an exact quantization scheme.
 Artur Avila. *Communications in Mathematical Physics* 249 (2004), 305-318.

- (8) Quasisymmetric robustness of the Collet-Eckmann condition in the quadratic family.
Artur Avila, Carlos Gustavo Moreira. *Bulletin of the Brazilian Mathematical Society* 35 (2004), 291-331.
- (9) Siegel disks with smooth boundaries.
Artur Avila, Xavier Buff, Arnaud Chéritat. *Acta Mathematica* 193 (2004), 1-30.
- (10) Statistical properties of unimodal maps : the quadratic family.
Artur Avila, Carlos Gustavo Moreira. *Annals of Mathematics* 161 (2005), 831-881.
- (11) Statistical properties of unimodal maps : physical measures, periodic orbits and pathological laminations.
Artur Avila, Carlos Gustavo Moreira. *Pub. Math. IHÉS* 101 (2005), 1-67.
- (12) Generic singular spectrum for ergodic Schrödinger operators.
Artur Avila, David Damanik. *Duke Mathematical Journal* 130 (2005), 393-400.
- (13) Phase-Parameter relation and sharp statistical properties for general families of unimodal maps.
Artur Avila, Carlos Gustavo Moreira. *Contemporary Mathematics* 389 (2005), 1-42.
- (14) Smoothness of solenoidal attractors.
Artur Avila, Sébastien Gouëzel, Masato Tsujii. *Discrete and Continuous Dynamical Systems* 15 (2006), 21-35.
- (15) Examples of Feigenbaum Julia sets with small Hausdorff dimension.
Artur Avila, Mikhail Lyubich. In “Dynamics on the Riemann Sphere. A Bodil Branner Festschrift”, Ed. Poul G. Hjorth, Carsten Lunde Petersen, European Mathematical Society (EMS), Zürich, pp. 71-87, 2006.
- (16) A generic C^1 map has no absolutely continuous invariant measure.
Artur Avila, Jairo Bochi. *Nonlinearity* 19 (2006), 2917-2925.
- (17) Reducibility or non-uniform hyperbolicity for quasiperiodic Schrödinger cocycles.
Artur Avila, Raphaël Krikorian. *Annals of Mathematics* 164 (2006), 911-940.
- (18) Exponential mixing for the Teichmüller flow.
Artur Avila, Sébastien Gouëzel, Jean-Christophe Yoccoz. *Pub. Math. IHÉS* 104 (2006), 143-211.
- (19) Weak mixing for interval exchange transformations and translation flows.
Artur Avila, Giovanni Forni. *Annals of Mathematics* 165 (2007), 637-664.
- (20) Simplicity of Lyapunov spectra : proof of the Zorich-Kontsevich conjecture.
Artur Avila, Marcelo Viana. *Acta Mathematica* 198 (2007), 1-56.
- (21) Generic expanding maps without absolutely continuous invariant σ -finite measure.
Artur Avila, Jairo Bochi. *Mathematical Research Letters* 14 (2007), 721-730.
- (22) Simplicity of Lyapunov spectra : a sufficient criterion.
Artur Avila, Marcelo Viana. *Portugaliae Mathematica* 64 (2007), 311-376.

- (23) A uniform dichotomy for generic $SL(2, \mathbb{R})$ cocycles over a minimal base.
Artur Avila, Jairo Bochi. *Bulletin de la Société Mathématique de France* 135 (2007), 407-417.
- (24) Exponential decay of correlations for the Rauzy-Veech-Zorich renormalization map.
Artur Avila, Alexander Bufetov. *Fields Institute Communications* 51 (2007), 203-211.
- (25) Hausdorff dimension and conformal measures of Feigenbaum Julia sets.
Artur Avila, Mikhail Lyubich. *Journal of the American Mathematical Society* 21 (2008), 305-363.
- (26) Absolute continuity of the integrated density of states for the almost Mathieu operator with non-critical coupling.
Artur Avila, David Damanik. *Inventiones Mathematicae* 172 (2008), 439-453.
- (27) Cantor Spectrum for Schrödinger Operators with Potentials arising from Generalized Skew-shifts.
Artur Avila, Jairo Bochi, David Damanik. *Duke Mathematical Journal* 146 (2009), 253-280.
- (28) On the spectrum and Lyapunov exponent of limit periodic Schrödinger operators.
Artur Avila. *Communications in Mathematical Physics* 288 (2009), 907-918.
- (29) The ten martini problem.
Artur Avila, Svetlana Jitomirskaya. *Annals of Mathematics* 170 (2009), 303-342.
- (30) Combinatorial rigidity for unicritical polynomials.
Artur Avila, Jeremy Kahn, Mikhail Lyubich, Weixiao Shen. *Annals of Mathematics* 170 (2009), 783-797.
- (31) Nonuniform center bunching and the genericity of ergodicity among C^1 partially hyperbolic symplectomorphisms.
Artur Avila, Jairo Bochi, Amie Wilkinson. *Annales Scientifiques de l'École Normale Supérieure* 42 (2009), 931-979.
- (32) Uniform exponential growth for some $SL(2, \mathbb{R})$ matrix products.
Artur Avila, Thomas Roblin. *Journal of Modern Dynamics* 3 (2009), 549-554.
- (33) Density of positive Lyapunov exponents for quasiperiodic $SL(2, \mathbb{R})$ cocycles in arbitrary dimension.
Artur Avila. *Journal of Modern Dynamics* 3 (2009), 629-634.
- (34) Almost localization and almost reducibility.
Artur Avila, Svetlana Jitomirskaya. *Journal of the European Mathematical Society* 12 (2010), 93-131.
- (35) Bulk universality and clock spacing of zeros for ergodic Jacobi matrices with a.c. spectrum.
Artur Avila, Yoram Last, Barry Simon. *Analysis & PDE* 3 (2010), 81-118.
- (36) Extremal Lyapunov exponents : an invariance principle and applications.
Artur Avila, Marcelo Viana. *Inventiones Mathematicae* 181 (2010), 115-174.
- (37) Uniformly hyperbolic finite-valued $SL(2, \mathbb{R})$ cocycles.
Artur Avila, Jairo Bochi, Jean-Christophe Yoccoz. *Commentarii Mathematici Helvetici* 85 (2010), 813-884.

- (38) On the regularization of conservative maps.
Artur Avila. *Acta Mathematica* 205 (2010), 5-18.
- (39) Parapuzzle of Multibrot sets and typical dynamics of unimodal maps.
Artur Avila, Mikhail Lyubich, Weixiao Shen. *Journal of the European Mathematical Society* 13 (2011), 27-56.
- (40) Hölder continuity of absolutely continuous spectral measures for one-frequency Schrödinger operators.
Artur Avila, Svetlana Jitomirskaya. *Communications in Mathematical Physics* 301 (2011), 563-581.
- (41) Cohomological equations and invariant distributions for minimal circle diffeomorphisms.
Artur Avila, Alejandro Kocsard. *Duke Mathematical Journal* 158 (2011), 501-536.
- (42) Density of positive Lyapunov exponents for $SL(2, \mathbb{R})$ cocycles.
Artur Avila. *Journal of the American Mathematical Society* 24 (2011), 999-1014.
- (43) A KAM scheme for $SL(2, \mathbb{R})$ cocycles with Liouvillean frequencies.
Artur Avila, Bassam Fayad, Raphaël Krikorian. *Geometric and Functional Analysis* 21 (2011), 1001-1019.
- (44) Mixing for time-changes of Heisenberg nilflows.
Artur Avila, Giovanni Forni, Corinna Ulcigrai. *Journal of Differential Geometry* 89 (2011), 369-410.
- (45) The full renormalization horseshoe for unimodal maps of higher degree : exponential contraction along hybrid classes.
Artur Avila, Mikhail Lyubich. *Publications Mathématiques de l'IHÉS* 114 (2011), 171-223.
- (46) Nonuniform hyperbolicity, global dominated splittings and generic properties of volume-preserving diffeomorphisms.
Artur Avila, Jairo Bochi. *Transactions of the American Mathematical Society* 364 (2012), 2883-2907.
- (47) Opening gaps in the spectrum of strictly ergodic Schrödinger operators.
Artur Avila, Jairo Bochi, David Damanik. *Journal of the European Mathematical Society* 14 (2012) 61-106.
- (48) Exponential Mixing for the Teichmüller flow in the Space of Quadratic Differentials.
Artur Avila, Maria João Resende. *Commentarii Mathematici Helvetici* 87 (2012), 589-638.
- (49) Small eigenvalues of the Laplacian for algebraic measures on moduli space, and mixing properties of the Teichmüller flow.
Artur Avila, Sébastien Gouëzel. *Annals of Mathematics* 178 (2013), 385-442.
- (50) $SL(2, \mathbb{R})$ -invariant probability measures on the moduli spaces of translation surfaces are regular.
Artur Avila, Carlos Matheus, Jean-Christophe Yoccoz. *Geometric and Functional Analysis* 23 (2013), 1705-1729.

- (51) Holonomy invariance : rough regularity and applications to Lyapunov exponents.
Artur Avila, Jimmy Santamaria, Marcelo Viana. *Astérisque* 358 (2013), 13-74.
- (52) On rigidity of critical circle maps.
Artur Avila. *Bulletin of the Brazilian Mathematical Society* 44 (2013), 611-619.
- (53) Singular density of states measure for subshift and quasi-periodic Schrödinger operators.
Artur Avila, David Damanik, Zhenghe Zhang. *Communications in Mathematical Physics* 330 (2014), 469-498.
- (54) Complex one-frequency cocycles.
Artur Avila, Svetlana Jitomirskaya, Christian Sadel. *Journal of the European Mathematical Society* 16 (2014), 1915-1935.
- (55) On manifolds supporting distributionally uniquely ergodic diffeomorphisms.
Artur Avila, Bassam Fayad, Alejandro Kocsard. *Journal of Differential Geometry* 99 (2015), 191-213.
- (56) On the Kotani-Last and Schrödinger conjectures.
Artur Avila. *Journal of the American Mathematical Society*, 28 (2015) 579-616.
- (57) Absolute continuity, Lyapunov exponents and rigidity I : geodesic flows.
Artur Avila, Marcelo Viana, Amie Wilkinson. *Journal of the European Mathematical Society* 17 (2015), 1435-1462.
- (58) The visits to zero of a random walk driven by an irrational rotation.
Artur Avila, Dmitry Dolgopyat, Eduard Duryev, Omri Sarig. *Israel Journal of Mathematics* 207 (2015), 653-717.
- (59) Monotonic cocycles.
Artur Avila, Raphaël Krikorian. *Inventiones Mathematicae* 202 (2015), 271-331.
- (60) Global theory of one-frequency Schrödinger operators.
Artur Avila. *Acta Mathematica* 215 (2015), 1-54.
- (61) Weak mixing directions in non-arithmetic Veech surfaces.
Artur Avila, Vincent Delecroix. *Journal of the American Mathematical Society* 29 (2016), 1167-1208.
- (62) Towers for commuting endomorphisms, and combinatorial applications.
Artur Avila, Pablo Candela. *Annales de l'Institut Fourier* 66 (2016), 1529-1544.
- (63) An integrable deformation of an ellipse of small eccentricity is an ellipse.
Artur Avila, Jacopo de Simoi, Vadim Kaloshin. *Annals of Mathematics* 184 (2016), 527-558.
- (64) On the Hausdorff dimension of the Rauzy gasket.
Artur Avila, Pascal Hubert, Alexandra Skripchenko. *Bulletin de la Société Mathématique de France* 144 (2016), 539-568.
- (65) Diffusion for chaotic plane sections of 3-periodic surfaces.
Artur Avila, Pascal Hubert, Alexandra Skripchenko. *Inventiones Mathematicae* 206 (2016), 109-146.

- (66) Diffeomorphisms with positive metric entropy.
Artur Avila, Sylvain Crovisier, Amie Wilkinson. *Publications Mathématiques de l’IHES* 124 (2016), 319-347.
- (67) Spectral Theory of Extended Harper’s Model and a Question by Erdős and Szekeres.
Artur Avila, Svetlana Jitomirskaya, Christopher Marx. *Inventiones Mathematicae* 210 (2017), 283-339.
- (68) Sharp Phase transitions for the almost Mathieu operator.
Artur Avila, Jiangong You, Qi Zhou. *Duke Mathematical Journal* 166 (2017), 2697-2718.
- (69) Symplectic and isometric $SL(2, \mathbb{R})$ invariant subbundles of the Hodge bundle.
Artur Avila, Alex Eskin, Martin Möller. *Journal für die reine und angewandte Mathematik* 732 (2017), 1-20.
- (70) Second phase transition line.
Artur Avila, Svetlana Jitomirskaya, Qi Zhou. *Mathematische Annalen* 370 (2018), 271-285.
- (71) Zorich conjecture for hyperelliptic Rauzy-Veech groups.
Artur Avila, Carlos Matheus, Jean-Christophe Yoccoz. *Mathematische Annalen* 370 (2018), 785-809.
- (72) Livsic theorem for diffeomorphism cocycles.
Artur Avila, Alejandro Kocsard, Xiao-Chuan Liu. *Geometric and Functional Analysis* 28 (2018), 843-964.
- (73) Statistical properties of quadratic polynomials with a neutral fixed point.
Artur Avila, Davoud Cheraghi. *Journal of the European Mathematical Society* 20 (2018), 2005-2062.
- (74) Weak mixing properties of interval exchange transformations and translation flows.
Artur Avila, Martin Leguil. *Bulletin de la Société Mathématique de France* 146 (2018), 391-426.
- (75) The Kontsevich-Zorich cocycle over Veech-McMullen family of symmetric translation surfaces.
Artur Avila, Carlos Matheus, Jean-Christophe Yoccoz. *Journal of Modern Dynamics* 14 (2019), 21-54.
- (76) Some monoids of Pisot matrices.
Artur Avila, Vincent Delecroix. In “New trends in one-dimensional dynamics”, Ed. Maria José Pacífico, Pablo Guarino, Springer Proceedings in Mathematics & Statistics, pp. 21-30, 2019.
- (77) Recurrence for the wind-tree model.
Artur Avila, Pascal Hubert. *Annales de l’Institut Henri Poincaré. Analyse Non Linéaire* 37 (2020), 1-11.
- (78) Smooth Siegel disks everywhere.
Artur Avila, Xavier Buff, Arnaud Chéritat. *Astérisque* 416 (2020), 133-180.
- (79) Stable accessibility with 2-dimensional center.
Artur Avila, Marcelo Viana. *Astérisque* 416 (2020), 301-320.

- (80) On mixing diffeomorphisms of the disk.
Artur Avila, Bassam Fayad, Patrice Le Calvez, Disheng Xu, Zhiyuan Zhang. *Inventiones Mathematicae* 220 (2020), 673-714.
- (81) Invariant graphs and spectral type of Schrödinger operators.
Artur Avila, Konstantin Khanin, Martin Leguil. *Pure and Applied Functional Analysis* 5 (2020), 1257-1277.
- (82) C^1 -density of stable ergodicity.
Artur Avila, Sylvain Crovisier, Amie Wilkinson. *Advances in Mathematics* 379 (2021), 68pp.
- (83) Mixing for smooth time-changes of general nilflows.
Artur Avila, Giovanni Forni, Davide Ravotti, Corinna Ulcigrai. *Advances in Mathematics* 385 (2021), 65pp.
- (84) Lebesgue measure of Feigenbaum Julia sets.
Artur Avila, Mikhail Lyubich. *Annals of Mathematics* 195 (2022), 1-88.
- (85) Absolute continuity, Lyapunov exponents, and rigidity II : systems with compact center leaves.
Artur Avila, Marcelo Viana, Amie Wilkinson. *Ergodic Theory & Dynamical Systems* 42 (2022), 437-490.
- (86) Non-differentiable irrational curves for C^1 twist map.
Artur Avila, Bassam Fayad. *Ergodic Theory & Dynamical Systems* 42 (2022), 491-499.

Accepted for publication

- (87) Analytic maps of parabolic and elliptic type with trivial centralisers.
Artur Avila, Davoud Cheraghi, Alexander Eliad. To appear in : *Annales de l'Institut Henri Poincaré. Analyse Non Linéaire*.
- (88) Symplectomorphisms with positive metric entropy.
Artur Avila, Sylvain Crovisier, Amie Wilkinson. To appear in : *Proceedings of the London Mathematical Society*.

Submitted for publication

- (89) Schrödinger operators with potentials generated by hyperbolic transformations : I. Positivity of the Lyapunov exponent.
Artur Avila, David Damanik, Zhenghe Zhang.
- (90) Quantitative weak mixing for interval exchange transformations.
Artur Avila, Giovanni Forni, Pedram Safaee.
- (91) On the abominable properties of the almost Mathieu operator with well approximated frequencies.
Artur Avila, Yoram Last, Mira Shamis, Qi Zhou.

Preprints

- (92) Smooth Siegel disks via semicontinuity : a remark on a proof of Buff and Cheritat.
Artur Avila.
- (93) The absolutely continuous spectrum of the almost Mathieu operator.
Artur Avila.
- (94) On point spectrum at critical coupling.
Artur Avila.

(95) Distortion elements in $\text{Diff}^\infty(\mathbb{R}/\mathbb{Z})$.
Artur Avila.

(96) Almost reducibility and absolute continuity I.
Artur Avila.

Expository

(97) Bifurcations d'applications unimodales.
Artur Avila. C. R. Acad. Sci. Paris, Ser. I 334 (2002), 483-488.

(98) Bifurcations of unimodal maps.
Artur Avila, Carlos Gustavo Moreira. In Dynamical Systems. Part II : Topological Geometrical and Ergodic Properties of Dynamics. Pubblicazioni della Classe di Scienze, Scuola Normale Superiore, Pisa. Centro di Ricerca Matematica "Ennio De Giorgi" : Proceedings, 2003, pp. 1-22.

(99) Dynamics in the moduli space of Abelian differentials.
Artur Avila, Marcelo Viana. Portugaliae Mathematica 62 (2005), 531-547.

(100) Solving the ten martini problem.
Artur Avila, Svetlana Jitomirskaya. Lecture Notes in Physics 690 (2006), 5-16.

(101) Chaoticity of the Teichmüller flow.
Artur Avila. Clay Mathematics Proceedings 10 (2010), 321-338.

(102) Dynamics of renormalization operators.
Artur Avila. In "Proceedings of the International Congress of Mathematicians 2010. Volume 1." World Scientific Publishing, pp. 154-175.

(103) Cocycles over partially hyperbolic maps.
Artur Avila, Marcelo Viana, Amie Wilkinson. Astérisque 358 (2013), 1-12.

Co-authors

Flavio Abdenur (6).
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Alexander Bufetov (24).
Xavier Buff (9,78).
Pablo Candela (62).
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Eduard Duryev (58).
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Sébastien Gouëzel (14,18,49).
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Svetlana Jitomirskaya (29,34,40,54,67,70,100).
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