

Laurent Stolovitch: Curriculum Vitae

EDUCATION

- 2000 Habilitation à diriger de recherches, Université de Toulouse III, France
1994 Phd in Mathematics "Classification analytique de champs de vecteurs", Advisor: Bernard Malgrange, Université de Grenoble I, Institut Fourier, France
1991 Engineer graduated from E.N.S.I.M.A.G (Ecole Nationale Supérieure d'Informatique et de Mathématiques Appliquées de Grenoble), France. ("Grandes Ecoles" Engineering school of Applied mathematics and Computer sciences)¹

POSITIONS

- 2013– Research Director CNRS 1st class, Université de Côte d'Azur, Nice, France.
2009–2013 Research Director CNRS 2nd class, Université de Nice Sophia Antipolis, France
2005–2009 Research Director CNRS 2nd class, Université de Toulouse III, France
1995–2005 Chargé de Recherches CNRS², Université de Toulouse III, France

FELLOWSHIPS AND AWARDS

- 2025 Fellow of the American Mathematical Society
2021 Prime d'Encadrement Doctoral et de Recherches, CNRS, France
2012 Prime Excellence Scientifique, CNRS, France.
2004 Prix Doistau-Blutet, Académie des Sciences, Paris.³
2001 Médaille de Bronze (Bronze Medal), CNRS, France.⁴

GRANTS

- 2024-2025 PI of the France-Japan Sakura project "Holomorphic neighborhoods of compact manifolds and CR geometry", K€12.
2019-2021 PI of Université Côte d'Azur project "Real and complex geometry through Dynamics", K€24.
2015-2020 Member of team "Bekam" ANR project (PI: Raphaël Krikorian) €304 449, ANR-15-CE40-0001-03.
2014–2019 PI of French-Austrian ANR-FWF project "Dynamics and CR geometry". €169 800, ANR-14-CE34-0002-01 (with Bernhard Lamel).
2014–2017 PI of the French-Brasilian Capes-Cofecub project "Hypoellipticity through complex analysis" (with Paulo Cordaro).
2010–2014 Leader of the team "DynPde" of ANR project "Dynamics and Pdes". €220 000, ANR-10-BLAN-0102
2006–2010 Leader of the team "Resonances" of ANR project .

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

Supervised 7 postdocs (Alexander Esterov, Freek Verstringe, Xiaoling Wei, Zhiyan Zhao, Kai Jiang, Martin Klimes, Xiaojun Wu), 4 PhD students (Philipp Lohrmann(2006), Julien Aurouet(2013), Yue Mi(2023)), Master 1& 2 trainee (Mickael Lebedev), Université Côte d'Azur, Nice, France.

¹French engineering students study two years at university level (intensive training in maths and physics), after their secondary school diploma. Then, after a national competitive examination they enter the "Grandes Ecoles" for three years.

²Full time researcher position similar to "Assistant professor" in a Univeristy

³The Prix Paul Doistau-Émile Blutet from is a biennial prize awarded by the French Academy of Sciences in the fields of mathematics and physical sciences since 1954. The prize is also awarded quadrennially in biology

⁴The bronze medal rewards initial research that has established a researcher as a specialist in their field. This distinction is a form of encouragement to pursue research that is already well underway and proving successful.

CURRENT PhD STUDENTS

Mickael Lebedev.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 1995– Member of “Société Mathématiques de France”
- 1995– Member of “American Mathematical Society”

ORGANISATION OF SCIENTIFIC MEETINGS (as both in organisation and scientific comities)

- 2007 Organizer of the conference “Rigidity in dynamics and geometry”, CIRM, France.
- 2008 Organizer of the conference “Holomorphic PDE’s, small divisors and summability”, CIRM, France.
- 2008 Organizer of the conference “Equations aux dérivées partielles et théorie de Galois différentielle”, in the occasion of the 80th birthday of Bernard Malgrange.
- 2012 Organizer of the conference “Dynamics and Pde’s” in the occasion of the 60th birthday of Hakan Eliasson. CIRM, France.
- 2010 - 2017 Organizer of the yearly Winter school “Dynamics and PDE’s”, Saint-Etienne de Tinée, France
- 2017 Organizer of the workshop “Dynamics and CR geometry”, Nice, France
- 2021 Organizer of the workshop “SCV, CR geometry and Dynamics”, Nice, France.
- 2023 Organizer of the workshop “SCV, CR geometry and Dynamics”, Nice, France.
- 2024 Organizer of the workshop “SCV, CR geometry and Dynamics”, Kyoto, Japan.

INSTITUTIONAL RESPONSIBILITIES

- 2011– Member of the Hiring Committees (for professors and assistant professors), France.
- 2017–2023 Manager of the team “Géométrie-Analyse-Dynamique”, Lab. J.-A. Dieudonné, Nice.

SELECTED INVITED CONFERENCE PRESENTATIONS

- 2024 "Shenzhen International Workshop on Several Complex Variables and CR geometry", China.
- 2024 "Stability and rigidity in dynamical systems, beyond classical KAM theory", Paris.
- 2024 "Workshop on Several Complex Variables, Complex Geometry and related PDEs", Maryland U., USA.
- 2024 "Recent progresses in Complex Geometry", Singapour.
- 2023 "Complex Geometry", Taipei, Taiwan.
- 2023 "Real and Complex Dynamical Systems" dedicated to Yulij Ilyashenko’s 80-th Birthday, Tsaghkadzor, Armenia.
- 2023 “Analysis and Geometry in Several Complex Variables” , Vienna, Austria.
- 2023 "Complex Analysis, Geometry and Dynamics", Portorož, Slovenia.
- 2022 "Complex Geometry and Dynamical Systems", Oberwolfach, Germany.
- 2022 "CR Geometry and PDE’s IX", Levico Terme, Italy.
- 2021 "Minisymposium on complex analysis and geometry", 8ECM, Slovenia (virtual).
- 2019 “Microlocal Analysis and Asymptotic Analysis”, RIMS, Kyoto, Japan.
- 2019 “Geometric Complex Analysis on Foliations and Dynamics”, RIMS, Kyoto, Japan.
- 2019 AMS-Vietnam conference, Quy-Nhon, Vietman (invited in 2 different sections)
- 2018 “Real and Complex Dynamical Systems” (75th birthday of Y. Ilyashenko), Moscow, Russia.
- 2018 “Progress in Several Complex Variables”, KIAS, Seoul, Korea.
- 2018 Workshop on “Quasi-periodic Dynamics and Schrödinger operators”, Nanjing, China.
- 2017-2019,2023,2025 “Workshop on recent developments in several complex variables and partial differential equations”, Serra Negra, Brazil.
- 2017 "Analysis and Dynamics" Conference in occasion of Luigi Chierchia’s 60th Birthday, Lecce, Italy.
- 2016 "PDE, Complex Analysis, and Related Topics", Miami, USA.
- 2015 “Complex Analysis and Geometry”(Sidney Webster’s 70th birthday), Madison, USA

PUBLICATIONS of Laurent Stolovitch

- [BIS13] B. Braaksma, G. Iooss, and L. **Stolovitch**. “Existence of quasipatterns of the Swift-Hohenberg equation”. In: *Arch. Rational Mech. Anal.* 209 (2013), pp. 255–285.
- [BIS14] B. Braaksma, G. Iooss, and L. **Stolovitch**. “Erratum to: Existence of Quasipattern Solutions of the Swift-Hohenberg Equation [MR3054604]”. In: *Arch. Ration. Mech. Anal.* 211.3 (2014), p. 1065. DOI: [10.1007/s00205-013-0701-1](https://doi.org/10.1007/s00205-013-0701-1).
- [BIS17] B. Braaksma, G. Iooss, and L. **Stolovitch**. “Proof of quasipatterns for the Swift-Hohenberg equation”. In: *Comm. Math. Phys.* 353.1 (2017), pp. 37–67.
- [BS07] B. Braaksma and L. **Stolovitch**. “Small divisors and large multipliers”. In: *Ann. Inst. Fourier (Grenoble)* 57.2 (2007), pp. 603–628. URL: http://aif.cedram.org/item?id=AIF_2007__57_2_603_0.
- [BS20] D. Bambusi and L. **Stolovitch**. “Convergence to normal forms of integrable PDEs”. In: *Comm. Math. Phys.* 376.2 (2020), pp. 1441–1470. DOI: [10.1007/s00220-019-03661-8](https://doi.org/10.1007/s00220-019-03661-8).
- [CS16] C. Chavaudret and L. **Stolovitch**. “Analytic reducibility of resonant cocycles to a normal form”. In: *J. Inst. Math. Jussieu* 15.1 (2016), pp. 203–223.
- [GS16] X. Gong and L. **Stolovitch**. “Real Submanifolds of Maximum Complex Tangent Space at a CR Singular Point, I”. In: *Invent. Math.* 206.2 (2016), pp. 293–377. DOI: [10.1007/s00222-016-0654-8](https://doi.org/10.1007/s00222-016-0654-8).
- [GS19] X. Gong and L. **Stolovitch**. “Real Submanifolds of Maximum Complex Tangent Space at a CR Singular Point, II”. In: *J. Differential Geom.* 112.1 (2019), pp. 121–198. DOI: [10.4310/jdg/1557281008](https://doi.org/10.4310/jdg/1557281008).
- [GS22] X. Gong and L. **Stolovitch**. “Equivalence of Neighborhoods of Embedded Compact Complex Manifolds and Higher Codimension Foliations”. In: *Arnold Math. J.* 8 (2022), p.61–145. DOI: <https://doi.org/10.1007/s40598-021-00192-w>.
- [GS24] X. Gong and L. **Stolovitch**. “A structure theorem for neighborhoods of compact complex manifolds”. In: *J. Geom. Anal.* 34.133 (2024), p.1–30. DOI: [0.1007/s12220-024-01582-0](https://doi.org/10.1007/s12220-024-01582-0).
- [GS25] X. Gong and L. **Stolovitch**. “On neighborhoods of embedded complex tori”. In: *Math. Ann.* 391.2 (2025), pp. 2509–2540.
- [JS21] K. Jiang and L. **Stolovitch**. “Complete integrability of diffeomorphisms and their local normal forms”. In: *J. Dynam. Differential Equations* 33.3 (2021), pp. 1179–1201. DOI: [10.1007/s10884-020-09902-y](https://doi.org/10.1007/s10884-020-09902-y).
- [KLS22] I. Kossovskiy, B. Lamel, and L. **Stolovitch**. “Equivalence of Cauchy-Riemann manifolds and multisummability theory”. In: *Advances in Mathematics* 397 (2022), p. 108117. DOI: <https://doi.org/10.1016/j.aim.2021.108117>.
- [LS10] E. Lombardi and L. **Stolovitch**. “Normal forms of analytic perturbations of quasihomogeneous vector fields: Rigidity, invariant analytic sets and exponentially small approximation”. In: *Ann. Scient. Ec. Norm. Sup.* (2010), pp. 659–718. DOI: [DOI:10.24033/asens.2131](https://doi.org/10.24033/asens.2131).
- [LS19] B. Lamel and L. **Stolovitch**. “Convergence of the Chern-Moser-Beloshapka Normal Forms”. In: *to be published in J. Reine Angew. Math. (Crelle’s Journal)* (2019). DOI: [10.1515/crelle-2019-0004](https://doi.org/10.1515/crelle-2019-0004).
- [MS24] Y. Mi and L. **Stolovitch**. “On linearization of biholomorphism with non-semi-simple linear part at a fixed point”. In: *J. Dynam. Differential Equations* 36.4 (2024), pp. 3687–3710.
- [PS16] T. Paul and L. **Stolovitch**. “Quantum singular complete integrability”. In: *J. Funct. Anal.* 271 (2016), pp. 1377–1433. DOI: <https://doi.org/10.1016/j.jfa.2016.04.029>.

- [PS22] M. Procesi and L. **Stolovitch**. “About linearization of infinite-dimensional Hamiltonian systems”. In: *Comm. Math. Phys.* (2022), pp. 1–34. DOI: <https://doi.org/10.1007/s00220-022-04398-7>.
- [Sto00] L. **Stolovitch**. “Singular complete integrability”. In: *Inst. Hautes Études Sci. Publ. Math.* 91 (2000), 133–210 (2001). URL: http://www.numdam.org/item?id=PMIHES_2000__91__133_0.
- [Sto04] L. **Stolovitch**. “Sur les structures de Poisson singulières”. In: *Ergodic Theory Dynam. Systems* 24.5 (2004), pp. 1833–1863. DOI: 10.1017/S0143385703000804. URL: <https://doi.org/10.1017/S0143385703000804>.
- [Sto05a] L. **Stolovitch**. “Normalisation holomorphe d’algèbres de type Cartan de champs de vecteurs holomorphes singuliers”. In: *Ann. of Math.* 161 (2005), pp. 589–612. DOI: <https://doi.org/10.4007/annals.2005.161.589>.
- [Sto05b] L. **Stolovitch**. “A KAM phenomenon for singular holomorphic vector fields”. In: *Publ. Math. Inst. Hautes Études Sci.* 102 (2005), pp. 99–165. DOI: 10.1007/s10240-005-0035-0. URL: <https://doi.org/10.1007/s10240-005-0035-0>.
- [Sto08] L. **Stolovitch**. “Normal Forms of holomorphic dynamical systems”. In: *Hamiltonian dynamical systems and applications*. Ed. by W. Craig. Springer-Verlag, 2008, pp. 249–284.
- [Sto09a] L. **Stolovitch**. “Progress in normal form theory”. In: *Nonlinearity* 22 (2009), R77–R99, Invited article. DOI: <https://doi.org/10.1088/0951-7715/22/7/R01>.
- [Sto09b] L. **Stolovitch**. “Rigidity of Poisson structures”. In: *Tr. Mat. Inst. Steklova* 267. Osobennosti i Prilozheniya (2009), pp. 266–279. DOI: 10.1134/S008154380904021X. URL: <https://doi.org/10.1134/S008154380904021X>.
- [Sto13] L. **Stolovitch**. “Smooth Gevrey normal forms of vector fields near a fixed point”. In: *Ann. Inst. Fourier (Grenoble)* 63.1 (2013), pp. 241–267. DOI: 10.5802/aif.2760. URL: <https://doi.org/10.5802/aif.2760>.
- [Sto15] L. **Stolovitch**. “Family of intersecting totally real manifolds of $(\mathbb{C}^n, 0)$ and germs of holomorphic diffeomorphisms”. In: *Bull. Soc. Math. France* 143.2 (2015), pp. 247–263. DOI: 10.24033/bsmf.2685. URL: <https://doi.org/10.24033/bsmf.2685>.
- [Sto16] L. **Stolovitch**. “Big denominators and analytic normal forms. With an appendix of M. Zhitomirskii”. In: *J. Reine Angew. Math.* 710 (2016), pp. 205–249. DOI: <https://doi.org/10.1515/crelle-2013-0111>.
- [Sto93] L. **Stolovitch**. “On the computation of a versal family of matrices”. In: *Numer. Algor.* 4 (1993), pp. 25–46. DOI: <https://doi.org/10.1007/BF02142739>.
- [Sto94] L. **Stolovitch**. “Sur un théorème de Dulac”. In: *Ann. Inst. Fourier (Grenoble)* 44.5 (1994), pp. 1397–1433. URL: http://www.numdam.org/item?id=AIF_1994__44_5_1397_0.
- [Sto96] L. **Stolovitch**. “Classification analytique de champs de vecteurs 1-résonnants de $(\mathbb{C}^n, 0)$ ”. In: *Asymptotic Anal.* 12.2 (1996), pp. 91–143.
- [SV16] L. **Stolovitch** and F. Verstringe. “Holomorphic normal form of nonlinear perturbations of nilpotent vector fields”. In: *Regul. Chaotic Dyn.* 21.4 (2016), pp. 410–436. DOI: <https://doi.org/10.1134/S1560354716040031>.
- [SZ22] L. **Stolovitch** and Z. Zhao. “Geometry of hyperbolic Cauchy-Riemann singularities and KAM-like theory for holomorphic involutions”. In: *Math. Ann.* (2022), pp. 1–86. DOI: 10.1007/s00208-022-02408-6.