

Curriculum Vitae

Fabrizio Bianchi

Personal information

Date of birth	December 31st, 1989
Nationality	Italian
Address	Dipartimento di Matematica Università di Pisa Largo Bruno Pontecorvo, 5 56127 Pisa (PI), Italy Office 319
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Expertise and research interests

Holomorphic dynamics, complex analysis and geometry, pluripotential theory, ergodic theory and dynamical systems
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Cursus

Professorship Habilitations

2024	Abitolazione Scientifica Nazionale alle funzioni di professore universitario di Prima Fascia nel Settore Concorsuale 01/MATH-02 - ALGEBRA E GEOMETRIA (Italy)
2024	Habilitation à diriger des recherches (HDR) (France)

Academic positions

09/2023 -	Professore Associato , Università di Pisa, Italy
01/2019 -	Chargé de recherche CNRS (tenured full time researcher), CNRS, France. On leave since 09/2023.

Postdoctoral positions

2018 - 2019	Marie Skłodowska-Curie Fellow , Department of Mathematics, Imperial College London, UK.
2016 - 2018	Chapman Fellow , Department of Mathematics, Imperial College London, UK.
	Supervisor/Mentor: Dr Davoud Cheraghi

Education

2013–2016	PhD student, Institut de Mathématiques de Toulouse and Università di Pisa Thesis <i>Motions of Julia sets and dynamical stability in several complex variables</i> Defended on September 9th, 2016 Supervisors: Prof. François Berteloot and Prof. Marco Abate
2011–2013	Second level Diploma (<i>Licenza</i>), Mathematics, Scuola Normale Superiore di Pisa MSc in Mathematics, Università di Pisa Thesis <i>Geodesics for meromorphic connections on Riemann surfaces and dynamics of homogeneous vector fields in several complex variables</i> Defended on July 19th, 2013 Supervisor: Prof. Marco Abate
2008–2011	First level Diploma of Science Class (Mathematics), Scuola Normale Superiore di Pisa Bachelor of Science in Mathematics, Università di Pisa
2003–2008	Secondary school diploma, Liceo Scientifico M.G. Agnesi, Merate (Lecco, Italy).

Invited talks

Talks in conferences and workshops

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| 2027 (planned) | 19th Seasonal Institute of the Mathematical Society of Japan (MSJ-SI) <i>Complex, Algebraic, and Arithmetic Dynamics</i> , Tokyo , March 15-19 |
| 2026 (planned) | <i>Recent developments in complex geometry</i> , Bedlewo , Poland, July 27-31
<i>Subtropical Holomorphic Dynamics</i> , Shenzhen , China, April 20-24 |
| 2025 | <i>Complex Geometry, Complex Analysis and Dynamics</i> , CIRM Marseille , July 7-11
<i>Second meeting of PHC Project Galileo G24-123</i> , Bordeaux , June 25-27
LMS Scheme 3 Network in Holomorphic Dynamics meeting, Imperial College, London , June 20
<i>From Complex Analysis to Quantization</i> , Chern Institute for Mathematics, Tianjin , China, May 12-16
<i>Tangent to the Identity Germs and Affine Surfaces</i> , Toulouse , February 10-14 |
| 2024 | <i>SCV, CR geometry and Dynamics</i> , RIMS Kyoto , November 25-29
<i>CR Analysis and Complex Dynamics</i> , Leipzig , September 30 - October 1
<i>Complex Analysis and Complex Geometry</i> , Hanoi , Vietnam, August 26-29
<i>On Geometric Complexity of Julia Sets-V</i> , Bedlewo , Poland, July 21-26
<i>Complex Dynamics and complex geometry</i> , Amiens , June 17-21
<i>Parameter spaces in complex dynamics and related topics</i> , Pisa , May 27-31
<i>Index Theory and Complex Geometry Part 2</i> , Singapore , April 29 - May 3 |
| 2023 | <i>Algebraic Geometry, Arithmetic and Dynamics Part 2</i> , Singapore , August 28 - September 1
<i>Surfaces affines et germes tangents à l'identité</i> , Toulouse , July 10-13
<i>SCV, CR geometry, and Dynamics</i> , Nice , May 30-June 4
<i>Dynamics of Hénon Maps: Real, Complex and Beyond</i> , Banff , Canada, April 10-14
<i>Complex dynamics: connections to other fields</i> , University of Warsaw Conference Centre in Checiny , Poland, March 27-31
First ANR PADAWAN meeting, Orléans , January 5-6 |
| 2022 | <i>Complex Geometry, Dynamical Systems and Foliation Theory</i> , CIRM Marseille , October 17-21
<i>Complex Geometry and Dynamical Systems</i> , Oberwolfach, Germany , September 4-10
Simons Symposium <i>Algebraic, Complex and Arithmetic Dynamics</i> , Schloss Elmau in Elmau (Krün, Germany), August 22-26
<i>1st Al-Khorezmi International Conference on Modern problems of Mathematics</i> , dedicated to the 75th anniversary of Azimbay Sadullaev, Urgench (Uzbekistan) , July 25-29
Final conference ANR FATOU, Orléans , June 13-17
<i>Adventurous Berkeley Complex Dynamics</i> , main conference in the MSRI semester <i>Complex Dynamics: from special families to natural generalizations in one and several variables</i> May 2-6 (MSRI, Berkeley , California, US) |
| 2021 | <i>On geometric complexity of Julia sets - III</i> , Bedlewo , Poland, September 27-October 1
<i>Index Theory and Complex Geometry: Conference on Complex Analysis and Geometry</i> , August 16-20 (organized by IMM, Singapore - online) |
| 2020 | <i>On geometric complexity of Julia sets - II</i> , August 24-27 (organized by IMPAN, Poland - online)
<i>First Virtual Conference on Complex Analysis and Complex Geometry</i> , May 4 - June 14 (online)
<i>Complex Dynamics</i> , CIRM Marseille , January 27-31 |
| 2019 | <i>Dynamics and geometry</i> , Singapore , November 20
<i>Dynamics, Equations and Applications</i> , Krakow , Poland, September 16-20
XX Congresso Unione Matematica Italiana, Complex Geometry section, Pavia , September 2-7
<i>Topics in Complex Dynamics 2019</i> , Barcelona , March 25-29
LMS Scheme 3 Network in Holomorphic Dynamics meeting, Nottingham , January 14 |
| 2018 | Journée de dynamique complexe, Nice , December 18
Final conference ANR LAMBDA, Toulouse , May 28-June 1
<i>Varietà reali e complesse: geometria, topologia e analisi armonica</i> , Pisa , February 1-3 |
| 2017 | <i>Holomorphic Dynamics</i> , RIMS, Kyoto , December 11-15
<i>Topics in Complex Dynamics 2017</i> , Barcelona , October 2-6
LMS Scheme 3 Network <i>Holomorphic Dynamic</i> meeting, Imperial College, London , March 22
<i>Aspects of dynamical systems</i> , Imperial College, London , March 16-18 |

2016	<i>Progressi Recenti in Geometria Reale e Complessa - X</i> , Levico , October 8-11 Workshop <i>Residues and dynamics</i> , held in Pisa , September 12-13 Workshop <i>Dynamical systems in logic, complex analysis and ergodic theory</i> , Pisa , February 8-9
2015	<i>Topics in Complex Dynamics 2015</i> , Barcelona , November 23-27 Rencontre ANR LAMBDA, held in Amiens , September 28-30 <i>Complex Analysis and Geometry - XXII</i> , Levico , May 31 - June 5 <i>Aspects métriques et dynamiques en analyse complexe</i> , Lille , May 18-23 <i>Komplex Analysis Weeklong School and Workshop (KAWA6)</i> , Pisa , March 23-29 <i>Postgraduate Conference in Complex Dynamics</i> , London , March 11-13
2014	<i>Progressi Recenti in Geometria Reale e Complessa - IX</i> , Levico , October 20-23

Special lectures

2025	BICMR, Beijing (Colloquium), May
2023	Cologne (Monthly Regional Bochum-Essen-Koeln-Wuppertal seminar), January
2022	Oklahoma (Karcher Colloquium), October

Talks in research seminars

2025	Singapore (April), Tashkent , Uzbekistan (December)
2024	Oklahoma (February), Singapore (March), Roma Tor Vergata (May), Singapore (September)
2023	Singapore (February), Oklahoma (February), Tashkent , Uzbekistan (March, online), IMPAN, Warsaw (March), Paris Sorbonne (April), Lille (April), Amiens (May), Paris IHP (June), Florence (November), Toulouse (December)
2022	Paris Sorbonne (January), Open University, Milton Keynes , UK (March, online), Rennes (May), Beijing (June, online), Cologne (July), Pisa (September), Angers (October), Singapore (November), North Texas (December, online)
2021	Tashkent , Uzbekistan (November), Bordeaux (November)
2020	Lille (February), Toulouse (November, online)
2019	Amiens (October), RIMS Kyoto (December)
2018	NUS Singapore (February), Nice (April), Warsaw (June), Lille (September)
2017	Lille (February), Paris 6 (February), Orléans (April), Rennes (April), Queen Mary , London (September), Dijon (October), Warwick (October), Tokyo (December)
2016	Imperial College, London (January), Open University, Milton Keynes , UK (January), Dijon (June), Amiens (October), Liverpool (November)
2015	IMPAN, Warsaw (September), Toulouse (November)

Research courses

2026	2x1,5h mini-course <i>Applications of Thermodynamic Formalism to Holomorphic Dynamics</i> in <i>New Trends in Holomorphic Dynamics in Dimension One and Higher</i> , Orléans , June 29-July 3
2025	4x1h mini-course <i>Thermodynamic formalism in holomorphic dynamics</i> (with Y. M. He) in <i>Beyond uniform hyperbolicity 2025</i> , ICTP Trieste , June
2024	2x1h30 mini-course <i>Dynamics of horizontal-like maps</i> in the first PHC Galileo meeting, Parma , October 23-25
2023	4x1h30 course <i>Equilibrium states through potential theory</i> in the Simons Semester on Dynamical Systems: <i>Topological, smooth and holomorphic dynamics, ergodic theory, fractals</i> in Banach Center, Warsaw , March
2018	2x1h30 mini-course <i>Bifurcations for polynomial-like maps</i> in the First ANR FATOU meeting, Amiens , April 16-18

Visits (at least a week, conferences excluded)

2025	Toulouse (February), Oklahoma (March), Singapore (April), Beijing and Tianjin (May), Bordeaux (June), IAS Princeton (July), Tashkent , Uzbekistan (December)
2024	Oklahoma (February), Singapore (March and August), Hanoi (August)
2023	Milan (January), Singapore (January-February), Oklahoma (February), Warsaw (March), Toulouse (July and December)

2022	MSRI (February), Singapore (April and November), Cologne (July), Milan (July), Oklahoma (September-October)
2021	Orléans (June), Tashkent and Bukhara , Uzbekistan (November)
2019	Milan (April), London (April), Orléans (May), Trento (June), Cologne (July), Lahore , Pakistan (October), Singapore (November), Kyoto (December)
2018	Singapore (February and December), Warsaw (June), Milan (August), Lille (October)
2017	Paris , Paris 6 and Ecole Polytechnique (March), Dijon (July and October), Orléans (September), Kyoto and Tokyo (December)
2016	London , Imperial College (January), Amiens (October)
2015	Warsaw , IMPAN (September)
2012	Paris , Ecole Normale Supérieure (October-December, as exchange student during the last year of undergraduate studies)

Publications

Published papers

- (with Tien-Cuong Dinh) *Exponential mixing of all orders and CLT for automorphisms of compact Kähler manifolds*,
Advances in Mathematics, to appear
- (with Maxence Brévard) *Holomorphic motions of weighted periodic points*
Proceedings of the Simons Symposia on Algebraic, Complex, and Arithmetic Dynamics, to appear
- (with Sardor Bazarbaev and Karim Rakhimov) *On the support of measures of large entropy for polynomial-like maps*, 2025
Analysis and Mathematical Physics, Volume 15, article number 69
- (with Matthieu Astorg) *Horn maps of semi-parabolic Hénon maps*
Mathematische Annalen, Volume 392, 837-860, 2025
- (with Yan Mary He) *A Mané-Manning formula for expanding measures for endomorphisms of \mathbb{P}^k*
Transactions of the AMS, Volume 377, Number 11, 8179-8219, 2024
- (with Tien-Cuong Dinh and Karim Rakhimov) *Monotonicity of dynamical degrees for horizontal-like and polynomial-like maps*
Transactions of the AMS, Volume 377, Number 9, 6595-6618, 2024
- (with Tien-Cuong Dinh) *Equilibrium states of holomorphic endomorphisms of \mathbb{P}^k II: spectral gap and limit theorems*
Geometric and Functional Analysis (GAFA), Volume 34, 1006–1051 (2024)
- (with Karim Rakhimov) *Strong probabilistic stability in holomorphic families of endomorphisms of \mathbb{P}^k and polynomial-like maps*
International Mathematics Research Notices (IMRN), Volume 2024, Issue 12, 9875–9892 (2024)
- (with Samuele Mongodi) *Generalized Levi currents and singular loci for families of plurisubharmonic functions*
Journal of Geometric Analysis, Volume 34, article number 203 (2024)
- (with Tien-Cuong Dinh) *Every complex Hénon map is exponentially mixing of all orders and satisfies the CLT*
Forum of Mathematics, Sigma, Volume 12, article e4 (2024)
- (with Tien-Cuong Dinh) *Equilibrium states of holomorphic endomorphisms of \mathbb{P}^k I: existence and properties*
Journal de Mathématiques Pures et Appliquées, Volume 172, 162-201 (2023)
- (with Matthieu Astorg) *Hyperbolicity and bifurcations in families of polynomial skew products*
American Journal of Mathematics, Volume 145, Number 3, 861-898 (2023)

- (with Samuele Mongodi) *On minimal kernels and Levi currents on weakly complete complex manifolds*, 2021
Proceedings of the AMS, Volume 150, Issue 9, 3927–3939 (2022)
- (with Matthieu Astorg) *Higher bifurcations for polynomial skew products*
Journal of Modern Dynamics, 18, 69–99 (2022)
- (with Yûsuke Okuyama) *Degeneration of quadratic polynomial endomorphisms to a Hénon map*
Indiana University Mathematics Journal, Volume 69, 2549–2570 (2020)
- Misiurewicz parameters and dynamical stability for polynomial-like maps of large topological degree*
Mathematische Annalen, Volume 373, 901–928 (2019)
- Parabolic implosion for endomorphisms of \mathbb{C}^2*
Journal of the European Mathematical Society, Volume 21, 3709–3737 (2019)
- (with François Berteloot) *Perturbations d'exemples de Lattès et dimension de Hausdorff du lieu de bifurcation*
Journal de Mathématiques Pures et Appliquées, Volume 116, 161–173 (2018)
- (with François Berteloot and Christophe Dupont) *Dynamical stability and Lyapunov exponents for holomorphic endomorphisms of \mathbb{P}^k*
Annales Scientifiques de l'ENS, Volume 51, Issue 1, 215–262 (2018)
- (with Johan Taflin) *Bifurcations in the elementary Desboves family*
Proceedings of the AMS, Volume 145, Issue 10, 4337–4343 (2017)
- (with Marco Abate) *A Poincaré-Bendixson theorem for meromorphic connections on Riemann surfaces*
Mathematische Zeitschrift, Volume 282, Issue 1, 247–272 (2016).

Preprints

- (with Yan Mary He) *Manhattan curves in complex dynamics and asymptotic correlation of multiplier spectra*, 2025
- (with Yan Mary He) *Analyticity of the Hausdorff dimension and metric structures in Misiurewicz families of polynomials*, 2025
- (with Yan Mary He) *Pressure path metrics on parabolic families of polynomials*, 2024
- (with Tien-Cuong Dinh and Karim Rakhimov) *Hölder continuity and laminarity of the Green currents for Hénon-like maps*, 2024

Other

- (with Tien-Cuong Dinh) *Statistical properties of complex Hénon maps*, in *Hénon maps: a list of open problems* (Eds. C. Favre, T. Firsova, L. Palmisano, J. Raissy, G. Vigny)
Arnold Mathematical Journal, 2024
- (with François Berteloot) *Stability and bifurcations in projective holomorphic dynamics*
Dynamical systems, **Banach Center Publications**, 115, Polish Acad. Sci. Inst. Math., Warsaw, 37–71, 2018

Editorial work

- Editor* of the Springer Lecture Notes Volume *Quantitative aspects in complex analysis, geometry, and dynamics* (in preparation). This volume is the collection of the expanded lectures notes of the courses in the ACQUA21 school that I organized in Lille in 2021.
- Reporter* for the Oberwolfach report 40/2022, *Complex Geometry and Dynamical Systems*

Research Fellowships, grants, and other funding (by year of award)

Fellowships and positions (excluding declined positions)

2023	Winner of the competition for a permanent full-time position of <i>Professore Associato</i> at the University of Pisa
2018	Winner of the French national competition for a permanent full-time CNRS researcher position Two-year Marie Skłodowska-Curie Individual Fellowship
2016	Two-year Chapman Fellowship, Department of Mathematics, Imperial College
2013	LabEx CIMI full PhD scholarship (2013-2016), Université Paul Sabatier, Toulouse
2008	Winner of the competition for Full Scholarship for a 5-year term of studies (2008-2013) in the Science Class of Scuola Normale Superiore di Pisa (SNS).

Participation and direction of research groups

2024	Member of the ANR TIGerS (Tangent to the Identity Germs and affine Surfaces, PI Xavier Buff), 2025-2028, €374.321
2023	Member of the PHC Galileo G24-123 (From rational to transcendental: complex dynamics and parameter spaces, PIs Miriam Benini and Jasmin Raissy), €6.250 (Italian side)
2021	Coordinator of the Axis <i>Holomorphic Dynamics</i> of the three-year ANR-DFG funded project QuaSiDy (Quantization, Singularities, and Holomorphic Dynamics, PIs Viet-Anh Nguyen and George Marinescu), 2022-2024, €562.000 Member of the four-year ANR funded project PADAWAN (Parabolic dynamics, bifurcations, and wandering domains, PI Matthieu Astorg), 2022-2025, €184.000
2019	PI of the two-year I-SITE ULNE grant NEPECAD (New perspectives in Complex Analytic Dynamics), Lille (2020-2021), €118.800

Funding for specific events

2025	Unipi funding for the workshop "Quasidy@Pisa", 2025, €1600
2024	LabEx CIMI (Toulouse) funding for the Semester "Holomorphic dynamics", 2025, €120000
2021	INDAM funding for the workshop "New trends in holomorphic dynamics", 2022, €15000 + use of Palazzone of Cortona
2020	<i>Porteur</i> for the "CNRS Ecole Thematiques" project, for the organization of ACQUA20/21 (various grants, total budget of the event €18000)

Other collaborative funding

2025	2-week 2025 Summer Collaborators program (Research in Pairs), IAS Princeton (with Yan Mary He)
2019	3 months CNRS "Poste Rouge" Invitation for Yusuke Okuyama (with Gabriel Vigny) 1-week Research in Pairs (with Samuele Mongodi), CIRM-FBK Trento (Italy) Projet Internationalisation BQR (with Viet-Anh Nguyen), Université de Lille, for cooperation with the Institute of Mathematics of Cologne (€2500)
2017	Imperial College European Partner Fund (with Davoud Cheraghi), for collaboration with the French community in holomorphic dynamics, 2017-2019 (£5,000)

Other personal funding

2023	<i>Junior Leader</i> 1-month fellowship of the Simons Semester on Dynamical Systems: <i>Topological, smooth and holomorphic dynamics, ergodic theory, fractals</i> in Banach Center, Warsaw, Spring 2023; invited 1-week course
2019	3-week JSPS Invitational Fellowships for Research in Japan (Short-term), host: Yusuke Okuyama Projet Exploratoire Premier Soutien (PEPS) <i>Jeune chercheuse, jeune chercheur</i> , CNRS, €3500
2017-18	Imperial College Research Imperial College Research Impulse Awards (3x) (total £3000)
2014	Mobility grant <i>Bando Vinci</i> from the <i>Université Franco-Italienne</i> for joint PhD degrees between Italy and France (€4500)
2013	Grant from SNS to attend the <i>Advanced school and workshop in Real and Complex Dynamics</i> , ICTP Trieste, May 20-31, 2013 (€750)

2012 | Grant from SNS, fully funded visit to the Ecole Normale Supérieure, Paris, Oct-Dec 2012

Service and responsibilities

2024-	Member of the <i>PhD School board</i> , Dipartimento di Matematica, Pisa
2024-	Member of the <i>Commissione di Coordinamento</i> of the <i>Dipartimento di Eccellenza</i> project, Dipartimento di Matematica, Pisa
2024-2025	Responsible for the <i>VQR 2020-2024 evaluation</i> preparation, Dipartimento di Matematica, Pisa
2020-2023	<i>Membre du Conseil</i> , Laboratoire Paul Painlevé
2020-2023	<i>Membre du Conseil</i> , Fédération de Recherche Mathématique des Hauts-de-France
2022	Member of the hiring committee for a <i>Maître de Conférences</i> (lecturer, tenured position), Université de Lille
2020	Member of the hiring committee for a <i>Maître de Conférences</i> (lecturer, tenured position), Université de Amiens
2024	Referee for the NWO (Dutch Research Council), one grant proposal
2021-	Referee for the Polish National Science Centre (evaluation of two grant applications, 2021, 2023)
Referee for	<i>Analysis and Mathematical Physics</i> , <i>Annali della Scuola Normale Superiore di Pisa</i> , <i>Computational methods and function theory</i> , <i>Discrete and continuous dynamical system</i> , <i>Fundamenta mathematicae</i> , <i>Inventiones Mathematicae</i> , <i>Journal für die reine und angewandte Mathematik (Crelle's journal)</i> , <i>Journal of Dynamical and Control Systems</i> , <i>Journal of Fixed Point Theory and Applications</i> , <i>Journal of Geometric Analysis</i> , <i>Journal of the European Mathematical Society</i> , <i>Proceedings of the AMS</i> , <i>Rendiconti del Circolo Matematico di Palermo</i>
Expert opinion for	<i>Advances in Mathematics</i> , <i>Communication in Mathematical Physics</i> , <i>Conformal Geometry and Dynamics</i> , <i>Fundamenta Mathematicae</i> , <i>Geometric and Functional Analysis (GAFA)</i> , <i>Journal of Functional Analysis</i> , <i>Journal of the American Mathematical Society</i> , <i>Journal of the European Mathematical Society</i> , <i>Journal of the London Mathematical Society</i> , <i>Mathematische Annalen</i> , <i>Publicacions Matemàtiques</i> , <i>Results in Mathematics</i> , <i>Revue Roumaine de Mathématiques Pures et Appliquées</i> , <i>Transactions of the AMS</i>
Reviewer for	<i>Mathematical Reviews</i> and <i>zbMATH - Zentralblatt MATH</i>

Organization of events

Conferences and meetings

2025	<i>QuaSiDy@Pisa</i> , Pisa, 1-3 October https://www.mathconf.org/qsdp2025 with Gian Maria Dall'Ara, Viet-Anh Nguyen, and Marco Vergamini
2025	CIMI semester <i>Holomorphic dynamics and geometry of surfaces</i> , Toulouse, France, January-June https://www.cimi.univ-toulouse.fr/en/all-news/c8b29677-3c4d-438b-b4de-aecc5be1a274/ with Xavier Buff, Julio Rebelo, and Slavyana Geninska
2023	<i>Pluripotential theory and holomorphic foliations</i> , Valenciennes, France, 25-27 October https://workshophfpt.sciencesconf.org with Séverine Biard, Judith Brinkschulte, and Viet-Anh Nguyen
2023	<i>Workshop on complex geometry and holomorphic dynamics</i> , Calais, France, 4-5 September https://www.mathconf.org/wcghd2023 with Daniel Greb and Christian Miebach
2022	<i>New trends in holomorphic dynamics</i> , Cortona, Italy, 29 August, - 2 September 2022 https://sites.google.com/view/hds-cortona-2022 with Leandro Arosio, Jasmin Raissy, and Matteo Ruggiero

2022	<p><i>Introductory workshop of the MSRI semester Complex Dynamics: from special families to natural generalizations in one and several variables</i></p> <p>MSRI, 8 - 17 February 2022</p> <p>https://www.msri.org/workshops/971</p> <p>with Anna Miriam Benini, Mikhail Hlushchanka, and Dylan Thurston</p>
2021	<p><i>ACQUA21 - Quantitative aspects in complex analysis, geometry and dynamics</i></p> <p>1-week school + workshop, Lille, October 25 - 29, 2021</p> <p>https://www.mathconf.org/acqua2021/</p> <p>with George Marinescu, Volker Mayer, Viet-Anh Nguyen, Karim Rakhimov, and Gabriel Vigny</p> <p><i>porteur du projet</i></p>
2021	<p><i>Journée du Laboratoire Paul Painlevé</i>, Villeneuve d'Ascq, July 1</p> <p>https://www.mathconf.org/jlpp2020</p> <p>with Sylvain Arguillère and Baba Thiam</p>
2019	<p><i>Journée d'analyse complexe</i>, Lille, October 9</p> <p>https://www.mathconf.org/jac2019</p> <p>with Viet-Anh Nguyen</p>

Regular seminars

2021-2023	<p>Monthly seminar "Dynamique Holomorphe"</p> <p>IHP, Paris</p> <p>with Matthieu Astorg and Nguyen Bac Dang</p>
2020-2023	<p>Weekly seminar "Analyse Complexe et Equations differentielles"</p> <p>Laboratoire Paul Painlevé, Université de Lille</p> <p>with Viet-Anh Nguyen and Changgui Zhang</p>

Teaching and tutoring

2025-2026	<p>Università di Pisa</p> <ul style="list-style-type: none"> - <i>Holomorphic dynamics</i>, MSc course, Mathematics degree - <i>Mathematical analysis</i>, first year, Informatics degree - <i>Mathematics</i>, first year, Tecniche per la Meccanica e la Produzione, Engineering degree
2024-2025	<p>Università di Pisa</p> <ul style="list-style-type: none"> - <i>Complex Analysis and Geometry</i>, MSc course, Mathematics degree - <i>Mathematical analysis</i>, first year, Informatics degree - <i>Mathematics</i>, first year, Tecniche per la Meccanica e la Produzione, Engineering degree
2023-2024	<p>Università di Pisa</p> <ul style="list-style-type: none"> - <i>Holomorphic dynamics</i>, MSc course, Mathematics degree - <i>Mathematical analysis</i>, first year, Informatics degree
2021-2022	<p>International Mathematics Master - COMSATS, Lahore, Pakistan (ICTP – CUI Visiting Scholars Program for Training and Research in Mathematics)</p> <ul style="list-style-type: none"> - <i>Differential geometry</i>, MSc course (with Marco Abate, Eleonora di Nezza, and Francesca Tovena) <p>Université de Lille</p> <ul style="list-style-type: none"> - <i>Tutor</i> for two fourth year students
2020-2021	<p>Université de Lille</p> <ul style="list-style-type: none"> - <i>Ergodic theory, theory of currents, and complex dynamics</i>, "M2 Recherche" course <p>International Mathematics Master - COMSATS, Lahore, Pakistan</p> <ul style="list-style-type: none"> - <i>Mathematical analysis (exercise classes, online)</i> - <i>Functional analysis (exercise classes, online)</i>

2019-2020	International Mathematics Master - COMSATS, Lahore, Pakistan - <i>Differential geometry</i> , MSc course (with Marco Abate)
2017-2018	Imperial College London - <i>Geometric Complex Analysis</i> , 3rd-4th-MSc course - <i>Tutor</i> for six first, second and third year students
2016-2017	Imperial College London - <i>Introduction to Riemann surfaces and conformal dynamics</i> , 3rd-4th-MSc course - <i>Tutor</i> for five first and second year students
2015-2016	Université Paul Sabatier, Toulouse - <i>Mathématiques 1 - Analyse 1</i> , L1 (first year) Sciences fondamentales et appliquées, course and exercises.
2014-2015	Université Paul Sabatier, Toulouse - <i>Mathématiques</i> , L1 (first year) Sciences Naturelles, course and exercises; - <i>Option Mathématiques</i> , L1 (first year) Sciences Naturelles, exercises-only course.
2014	<i>Modern Mathematics International Summer School for Students</i> , held in Lyon, August 20-29, 2014. Tutor and teaching assistant for the classes: - <i>Tropical geometry and enumeration of curves</i> - <i>Ultraproducts, asymptotics, and model theory</i>

Supervision

Master thesis

Q. Luong	Imperial College, 2018. Quintin went on to do a PhD in Queen Mary, London
M. Brévard	ENS Rennes and Paris 13, 2020. Maxence went on to do a PhD in Toulouse, under my joint supervision
W. Akram	Lahore, 2021. Waseem went on attending a Master in Calabria, Italy and is now PhD student in Tasmania University, Australia
D. Hussain	Lille, 2023. Daniel is now PhD student in Lille
M. Dell'Onte	Pisa, 2025. Mattia is now high school teacher in Italy

Other undergraduate projects

M. Tabaro	MSc summer project (Imperial 2018). Matteo later did the PhD in Imperial College
W. Lim	MSc summer project (Imperial 2018). Willie later did the PhD in Stony Brook, US
G. Tallia	Bachelor thesis (Pisa and SNS, 2025). Giovanni is now master student in SNS Pisa

PhD

M. Brévard	2020-2023, Toulouse, joint with François Berteloot
S. Bazarbaev	2022-2025, National University of Uzbekistan, Tashkent, joint with Karim Rakhimov
M. Vergamini	2023-2027, Scuola Normale Superiore, Pisa
S. Boymurodov	2024-2027, National University of Uzbekistan, Tashkent, joint with Karim Rakhimov
C. Genes	2025-2028, ENS Rennes, joint with Christophe Dupont

Postdoc

K. Rakhimov	2020-2022, with a fellowship funded by my I-SITE grant. After this postdoc, Karim got a position of associate professor in Tashkent National University, the most prestigious university in Uzbekistan.
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Participation in Conferences (excluding online events)

2025	<p><i>Complex Geometry, Complex Analysis and Dynamics</i>, CIRM Marseille, July 7-11</p> <p><i>Second meeting of PHC Project Galileo G24-123</i>, Bordeaux, June 25-27</p> <p>LMS Scheme 3 Network in Holomorphic Dynamics meeting, Imperial College London, June 20</p> <p><i>Beyond uniform hyperbolicity 2025 I</i>, ICTP Trieste, June 2-6</p> <p><i>From Complex Analysis to Quantization</i>, Chern Institute for Mathematics, Tianjin, China, May 12-16</p> <p><i>Tangent to the Identity Germs and Affine Surfaces</i>, Toulouse, February 10-14</p>
2024	<p>SCV, <i>CR geometry and Dynamics</i>, RIMS Kyoto, November 25-29</p> <p><i>First meeting of the PHC Galileo G24-123</i>, Parma, October 23-25</p> <p><i>CR Analysis and Complex Dynamics</i>, Leipzig, September 30 - October 1</p> <p><i>Complex Analysis and Complex Geometry</i>, Hanoi (Vietnam), August 26-29</p> <p><i>On Geometric Complexity of Julia Sets-V</i>, Bedlewo, Poland, July 21-26</p> <p><i>Complex Dynamics and complex geometry</i>, Amiens, June 17-21</p> <p><i>Parameter spaces in complex dynamics and related topics</i>, Pisa, May 27-31</p> <p><i>Index Theory and Complex Geometry Part 2</i>, Singapore, April 29 - May 3</p>
2023	<p><i>Geometric and Topological Properties of Random Algebraic Varieties</i>, Cologne, October 4-6</p> <p>XXI Congresso Unione Matematica Italiana, Pisa, September 4-8</p> <p><i>Algebraic Geometry, Arithmetic and Dynamics Part 2</i>, Singapore, August 28 - September 1</p> <p><i>Surfaces affines et germes tangents à l'identité</i>, Toulouse, July 10-13</p> <p>SCV, <i>CR geometry, and Dynamics</i>, Nice, May 30-June 4</p> <p><i>Dynamics of Hénon Maps: Real, Complex and Beyond</i>, Banff, Canada, April 10-14</p> <p><i>Complex dynamics: connections to other fields</i>, University of Warsaw Conference Centre in Checiny, Poland, March 27-31</p> <p>First ANR PADAWAN meeting, Orléans, January 5-6</p>
2022	<p><i>Conference on Complex Analysis, Complex Geometry and Dynamics, in memory of Nessim Sibony</i>, Orsay, December 5-9</p> <p><i>Complex Geometry, Dynamical Systems and Foliation Theory</i>, CIRM Marseille, October 17-21</p> <p><i>Complex Geometry and Dynamical Systems</i>, Oberwolfach, Germany, September 4-10</p> <p><i>New trends in holomorphic dynamics</i>, Cortona, Italy, August 29-September 2</p> <p>Simons Symposium <i>Algebraic, Complex and Arithmetic Dynamics</i>, Schloss Elmau in Elmau (Krün, Germany), August 22-26</p> <p><i>1st Al-Khorezmi International Conference on Modern problems of Mathematics</i>, dedicated to the 75th anniversary of Azimbay Sadullaev, Urgench, Uzbekistan, July 25-28</p> <p><i>Final conference ANR FATOU</i>, Orléans, June 13-17</p> <p><i>Adventurous Berkeley Complex Dynamics</i>, main conference in the MSRI semester <i>Complex Dynamics: from special families to natural generalizations in one and several variables</i> May 2-6 (MSRI)</p>
2021	<p><i>On geometric complexity of Julia sets - III</i>, Bedlewo, Poland, September 27-October 1</p> <p>CIME School <i>Modern dynamics</i>, Cetraro, Italy, August 2-6</p>
2020	<p><i>Complex dynamics</i>, CIRM Marseille, January 27-31</p>
2019	<p><i>Bifurcation and stability in complex dynamics</i>, Kyoto, December 9-13</p> <p><i>Geometry and dynamics</i>, Singapore, November 20</p> <p>Rencontre ANR FATOU, Orleans, November 13-15</p> <p><i>Dynamics, Equations and Applications</i>, Krakow, September 16-20</p> <p>XX Congresso Unione Matematica Italiana, Pavia, September 2-7</p> <p><i>Complex Analysis and Geometry - XXII</i>, held in Levico, May 31 - June 5</p> <p><i>Analytic Low-Dimensional Dynamics: a celebration of Misha Lyubich's 60th birthday</i>, Toronto, May 27-31</p> <p>Rencontre ANR FATOU, Ecole Polytechnique, May 15-17</p> <p><i>Topics in Complex Dynamics 2019</i>, Barcelona, March 25-29</p> <p>LMS Scheme 3 Network in Holomorphic Dynamics meeting, Nottingham, January 14</p>

2018	<p><i>Journée de Dynamique Complexe</i>, Nice, December 18</p> <p>Rencontre ANR FATOU, Dijon, November 14-16</p> <p><i>Journées Complexes du Nord</i>, Lille, October 22-23</p> <p><i>Complex Analysis and Geometry in Pisa</i>, Pisa, October 5-6</p> <p>CIME School <i>Complex non-Kähler geometry</i>, Cetraro, July 9-13</p> <p><i>New Developments in Complex Analysis and Function Theory</i>, Heraklion, July 2-6</p> <p><i>Analysis aspects of dynamics</i>, Imperial College London, 16-18 May</p> <p>Final conference ANR LAMBDA, Toulouse, May 28-June 1</p> <p>First ANR FATOU meeting, Amiens, April 16-18</p> <p><i>Varietà reali e complesse: geometria, topologia e analisi armonica</i>, Pisa, February 1-3</p>
2017	<p><i>Holomorphic Dynamics</i>, RIMS, Kyoto, December 11-15</p> <p><i>Topics in Complex Dynamics 2017</i>, Barcelona, October 2-6</p> <p>LMS Scheme 3 Network in Holomorphic Dynamics meeting, Imperial College, London, March 22</p> <p><i>Aspects of dynamical systems</i>, Imperial College, London, March 16-18</p>
2016	<p><i>Progressi Recenti in Geometria Reale e Complessa - X</i>, Levico, October 8-11</p> <p>Workshop <i>Residues and dynamics</i>, Pisa, September 12-13, 2016</p> <p><i>Parameter Problems in Analytic Dynamics</i>, London, June 27- July 1</p> <p><i>North-American Workshop in Holomorphic Dynamics</i>, Cancun, May 27 - June 4</p> <p><i>Komplex Analysis Weeklong School and Workshop (KAWA7)</i>, Toulouse-Albi, March 7-12</p> <p><i>Workshop on Dynamical systems in logic, complex analysis and ergodic theory</i>, Pisa, February 8-9</p>
2015	<p><i>Topics in Complex Dynamics 2015</i>, Barcelona, November 23-27</p> <p>Rencontre ANR LAMBDA, Amiens, September 28-30</p> <p><i>Topics in Analysis and Holomorphic Dynamics</i>, Warsaw, September 15-18</p> <p><i>Complex Analysis and Geometry - XXII</i>, Levico, May 31 - June 5</p> <p><i>Aspects métriques et dynamiques en analyse complexe</i>, Lille, May 18-23</p> <p><i>Komplex Analysis Weeklong School and Workshop (KAWA6)</i>, Pisa, March 23-29</p> <p><i>Postgraduate Conference in Complex Dynamics</i>, London, March 11-13</p> <p>Rencontre ANR LAMBDA, Toulouse, January 29-30</p>
2014	<p><i>Progressi Recenti in Geometria Reale e Complessa - IX</i>, in Levico, October 20-23</p> <p>Rencontre inaugurale ANR LAMBDA, Marne la Vallée, April 14-16</p> <p><i>Komplex Analysis Winter School and Workshop (KAWA-Nordan)</i>, CIRM, Marseille, March 24-29</p>
2013	<p>Workshop <i>Parabolic renormalization</i>, Pisa, June 3 - June 7</p> <p><i>Advanced School and Workshop in Real and Complex Dynamics</i>, Trieste (Italy), May 20-31</p> <p>Workshop <i>Varietà reali e complesse: geometria, topologia e analisi armonica</i>, Pisa, February 28 - March 3</p>
2012	<p>INdAM Conference <i>New Trends in Holomorphic Dynamics</i>, Cortona (Italy), September 3-7</p>