CURRICULUM VITAE

MATTEO RUGGIERO

I was born the 30 April 1984 in Bonn (Germany), italian nationality, married.

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Education and diplomas

- A.Y. 2002-2007: Student in Mathematics at Scuola Normale Superiore (Pisa), and at the Università di Pisa.
- 21.07.2005: Bachelor degree in Mathematics at the Università di Pisa, with thesis: "Struttura dell'insieme di Julia per polinomi" (Structure of the Julia set for polynomials), advisor M. Abate, vote 110/110 with honors.
- 12.10.2007: Master degree in Mathematics at the Università di Pisa, with thesis: "Studio della dinamica locale dei punti fissi superattrattivi in $\mathbb{C}^2$ tramite l'albero delle valutazioni" (Study of local dynamics of superattracting fixed points in $\mathbb{C}^2$ through the valuative tree), advisor M. Abate, vote 110/110 with honors.
- 30.10.2008: Master degree in Mathematics at the Scuola Normale Superiore di Pisa, vote 70/70 with honors.
- 01.2008-12.2010: PhD student in Mathematics at Scuola Normale Superiore (Pisa, Italy).
- 04-11.12.2009: Visiting student at the University of Michigan (Ann Arbor, USA).
- 03-07.2010: Visiting student at the École Normale Supérieure (Paris, France).
- 15.03.2011: PhD degree in Mathematics at Scuola Normale Superiore di Pisa, with thesis: "The valuative tree, rigid germs and Kato varieties", advisor M. Abate, vote 70/70 with honors.

Employment

- 05-06.2011: Internship by Scuola Normale Superiore (Pisa, Italy) at the École Polytechnique de Paris, CMLS lab (Palaiseau, France).
- 09.2011-08.2013: Post-doc of the FMJH at the École Polytechnique, CMLS lab (Palaiseau, France).
- 09.2013-present: Maître de conférences at the Université Paris Cité (ex Université de Paris, ex Université Paris-Diderot), UFR de Mathématiques, research unit IMJ-PRG, group Géométrie et Dynamique.
- 19.04-08.07.2018: ICL-CNRS fellowship, Academic visitor at Imperial College, London, UK.
- 26.08-29.12.2018: Visiting professor at BICMR, PKU, Beijing, China.
- 26.08-27.09.2019: Visiting professor at BICMR, PKU, Beijing, China.
- 09.10.2023-07.01.2024: Visiting professor at BICMR, PKU, Beijing, China.

Awards and

- 2017-2018: CNRS delegation (1 semester).
- 2020-2021: CNRS delegation (1 semester).
- 2020-2024: Awarded with the PEDR (French bonus for PhD programs and research).

- 11.11.2020-2029: National Scientific Qualification (Italy), Associate Professor in Geometry.

Current situation. Since 1st September 2013, I am maître de conférences at the Université Paris Cité, UFR de Mathématiques, research unit IMJ-PRG, group Géométrie et Dynamique.

Scientific publications

Research interests. (Local and semi-local) dynamics of analytic maps, (non-Kähler) complex geometry and compactification of orbit spaces, birational aspects of singularities of analytic spaces and maps, links with toric, tropical and non-archimedean geometry.

Research papers.

[1] M.Ruggiero: "Rigidification of holomorphic germs with non-invertible differential". Michigan Mathematical Journal, Volume 61 Issue 1, pp. 161–185, 2012.
`http://projecteuclid.org/`.

[2] M.Ruggiero: "Contracting rigid germs in higher dimensions". Annales de l'Institut Fourier, Volume 63 Issue 5, pp. 1913–1950, 2013.
`http://www.numdam.org/`.

[3] W.Gignac and M.Ruggiero: "Growth of attraction rates for iterates of a superattracting germ in dimension two". Indiana University Mathematics Journal, Volume 63, no.4, pp. 1195–1234, 2014.
`http://www.iumj.indiana.edu/`.

[4] C.Favre and M.Ruggiero: "Normal surface singularities admitting contracting automorphisms". Annales Mathématiques de la faculté des sciences de Toulouse, Volume 23, no. 4, pp. 797–828, 2014.
`http://afst.cedram.org/`.

[5] M.Ruggiero: "Classification of one dimensional superattracting germs in positive characteristic". Ergodic Theory and Dynamical Systems, Volume 35, Issue 7, pp. 2242–2268, 2015.
`http://journals.cambridge.org/`.

[6] M.Ruggiero and K.Shaw: "Tropical Hopf manifolds and contracting germs". Manuscripta Mathematica, Volume 152, Issue 1-2, pp. 1–60, 2017.
`http://link.springer.com/`.

[7] W.Gignac and M.Ruggiero: "Local dynamics of non-invertible maps near normal surface singularities". Memoirs of the AMS 272, no. 1337, xi+100 pages, 2021.
`https://bookstore.ams.org/`.

[8] E.García Barroso, P. González Pérez, P. Popescu-Pampu and M.Ruggiero: "Ultrametric properties for valuation spaces of normal surface singularities". Transactions of the AMS, Volume 372, Issue 12, pp. 8423–8475, 15 December 2019.
`https://www.ams.org/`.

[9] L.Fantini, C.Favre and M.Ruggiero: "Links of sandwiched surface singularities and self-similarity". Manuscripta Mathematica, Volume 162, Issue 1-2, pp. 23–65, 2020.
`https://link.springer.com/`.

[10] N.Istrati, A.Otiman, M.Pontecorvo and M.Ruggiero: "Toric Kato manifolds". Journal de l'École polytechnique, Volume 9, pp. 1347–1395, 2022.
`https://jep.centre-mersenne.org/`.

[11] S.Mongodi and M.Ruggiero: "Birational properties of tangent to the identity germs without non-degenerate singular directions". Journal of the London Mathematical Society, pp. 1–55, 2023.
`https://onlinelibrary.wiley.com/`.

Preprints.

[12] R.Dujardin, C.Favre and M.Ruggiero: "On the dynamical Manin-Mumford conjecture for plane polynomial maps". Preprint, pp. 20, 2023.
`https://arxiv.org/....`

Book chapters.

[c1] M.Abate (editor): "Local dynamics of singular holomorphic foliations" - M.Ruggiero: "Dynamics of foliations in the Siegel domain". Edizioni ETS, Dipartimento di Matematica dell'Università di Pisa, Dottorato di ricerca in matematica.

Other publications.

[o1] M.Ruggiero: Rigid germs, the valuative tree, and applications to Kato Varieties. PhD thesis defended the 15/03/2011. Edizioni della Normale, Volume 20, pp. XXVI-170, 2015.
`http://edizioni.sns.it/`.

Research Seminars

2008.

- 10.01.2008: Pisa (Italy), Università di Pisa, "Rigidificazione di germi superattrattivi in $(\mathbb{C}^2, 0)$ tramite blow-up".
- 24.10.2008: Levico (TN, Italy), CIRM, GNSAGA-INDAM, Progressi Recenti in Geometria Reale e Complessa, "Rigidificazione di germi olomorfi in $(\mathbb{C}^2, 0)$ tramite blow-up".
- 12.11.2008: Pisa (Italy), Centro de Giorgi, "Rigidificazione di germi olomorfi in $\mathbb{C}^2$ tramite scoppiamenti di punti".

2009.

- 19.11.2009: Pisa (Italy), Centro de Giorgi, "Sulla classificazione dei germi semi-superattrattivi in $\mathbb{C}^2$".
- 05.12.2009: Ann Arbor (Michigan, USA), University of Michigan, RTG Workshop on Complex Dynamics, "On the classification of semi-superattracting germs in $\mathbb{C}^2$ (short version)".
- 07.12.2009: Ann Arbor (Michigan, USA), University of Michigan, Seminars in Several Complex Variables and Complex Dynamics, Fall 2009, "On the classification of semi-superattracting germs in $\mathbb{C}^2$".

2010.

- 19.10.2010: Levico (TN, Italy), CIRM, GNSAGA-INDAM, Progressi Recenti in Geometria Reale e Complessa, "Costruzione di una 3-varietà complessa compatta con global spherical shell".
- 10.11.2010: Pisa (Italy), Centro de Giorgi, "Automorfismi polinomiali di $\mathbb{C}^3$ e varietà di Kato".

2011.

- 14.06.2011: Levico (TN, Italy), CIRM, GNSAGA, Complex Analysis and Geometry - XX, "On the classification of contracting rigid germs".

2012.

- 26.03.2012: Marseille 1 (France), LATP, "Germes rigides contractants en toute dimension".
- 04.09.2012: Cortona (AR, Italy), New trends in holomorphic dynamics (INDAM), "Attraction rate for iterates of superattracting germs in $\mathbb{C}^2$".
- 01.10.2012: Palaiseau (France), Séminaire de Géométrie Ergodique (CMLS), "Taux de contraction des itérés de germes superattractifs de $\mathbb{C}^2$".
- 05.10.2012: Bâle (Switzerland), Seminar Algebra and Geometry, "Valuative analysis of the dynamics of superattracting germs in $\mathbb{C}^2$".
- 09.10.2012: Amiens (France), Séminaire de Probabilités et Théorie Ergodique, "Taux de contraction des itérés de germes superattractifs de $\mathbb{C}^2$".
- 16.10.2012: Levico (TN, Italy), Progressi Recenti in Geometria Reale e Complessa, "Attraction rate for iterates of superattracting germs in $\mathbb{C}^2$".

2013.

- 25.01.2013: Albi (France), Komplex Analysis Workshop (KAWA4), "Attraction rate for iterates of superattracting germs in dimension 2".
- 18.02.2013: Paris (France), Paris VII, Séminaire Singularités, "Germes attractifs sur des singularités normales de surface".
- 08.03.2013: Lille (France), Séminaires d'Analyse Géométrique, "Automorphismes contractants de singularités normales de surface" (Contracting automorphisms of normal surface singularities).
- 13.03.2013: Orléans (France), Géométrie et systèmes dynamiques archimédiens et non-archimédiens, "On the dynamics of superattracting germs".
- 18.03.2013: Marseille (France), LATP Algèbre, Dynamique et Topologie, "Automorphismes contractants de singularités normales de surface".
- 08.04.2013: Grenoble (France), Institut Fourier, Algèbre et Géométrie, "Taux de contraction des itérés de germes superattractifs de $\mathbb{C}^2$".
- 25.04.2013: Orsay (France), Séminaire Topologie et Dynamique, "Taux de contraction des itérés de germes superattractifs de $\mathbb{C}^2$".
- 05.06.2013: Levico (TN, Italy), CIRM, GNSAGA, Complex Analysis and Geometry - XXI, "Attraction rate for iterates of superattracting germs".
- 07.10.2013: Paris (France), Paris VII, Séminaires Singularités, "Dynamique dans l'arbre des valuations".
- 14.10.2013: Paris (France), Paris VII, Séminaires Singularités, "Surfaces de Kato et valuations".
- 21.10.2013: Paris (France), Paris VII, Séminaires Singularités, "Exemples de dynamiques valuatives".
- 19.11.2013: Palaiseau (France), École Polytechnique, lecture group: Surfaces compactes non-archimédiennes, "Surfaces de Hopf non-archimédiennes d'après Voskuil" (with Christian Lehn).
- 22.11.2013: Lyon (France), Lyon 1, Séminaire Géométries, "Taux de contraction des itérés de germes superattractifs en dimension 2".

2014.

- 14.03.2014: Bochum (Germany), Seminar Komplexe Geometrie, "Attraction rates for iterates of superattracting germs in dimension 2".
- 13.05.2014: Paris (France), lecture group "Croissance des degrés pour applications birationnelles de $\mathbb{P}^2$".

2015.

- 13.01.2015: Paris (France), Paris VII, Séminaires Singularités, "Exemples de valuations divisorielles dont le gradué n'est pas de type fini, d'après Cossart-Galindo-Piltant".
- 11.03.2015: Leuven (Belgium), KU Leuven, Seminar number theory and algebraic geometry, "Attraction rates for iterates of superattracting germs at normal surface singularities".
- 17.03.2015: Amiens (France), Journée Amiénoise de systèmes dynamiques, "Variétés de Hopf tropicales".
- 07.04.2015: Paris (France), Paris VII, Séminaires Singularités, "Taux de contraction des itérés de germes superattractifs sur des singularités normales de surface".

2016.

- 09.02.2016: University of Pisa, Pisa (Italy), Workshop on dynamical systems in logic, complex analysis and ergodic theory, "Local dynamics of superattracting germs in dimension 2".
- 21.04.2016: American University of Beirut, Beirut (Lebanon), Analysis and Geometry seminar, "Local dynamics of superattracting germs in dimension 2".
- 04.10.2016: Paris (France), Paris VII, Séminaires Singularités, "La distance angulaire sur les espaces de valuations ".

- 11.10.2016: Lille (France), Lille 1, Séminaires Géométrie des espaces singuliers, "La distance angulaire sur les espaces de valuations ".
- 27.10.2016: Rio de Janeiro (Brazil), IMPA, Seminário de Folheações Holomorfas, "Algebraically stable models for holomorphic selfmaps of normal surface singularities".
- 07.11.2016: Chambéry (France), The 4th Franco-Japanese-Vietnamese Singularities Conference, "Non-expanding behavior of the angular distance on valuation spaces".

2017.

- 12.01.2017: Paris (France), Paris VII, Séminaires Géométrie Algébrique, "Modèles algébriquement stables pour germes holomorphes sur des singularités normales de surface".
- 14.02.2017: London (UK), Imperial College, DynamIC Seminars, "Local dynamics of non-invertible selfmaps on complex surfaces".
- 26.10.2017: Beijing (China), Academy of Mathematics and Systems Science, "Local dynamics of non-invertible selfmaps on complex surfaces".

2018.

- 19.03.2018: Palaiseau (France), Ecole Polytechnique, lecture group Sasaki, "Blum's existence to minimizing valuation I".
- 10.04.2018: Lille (France), Laboratoire Painlévé (Université Lille 1), Géométrie des espaces singuliers, "Entrelacs de singularités normales de surface et autosimilarité".
- 16.04.2018: Amiens (France), Rencontre ANR Fatou, "Super forms and super currents (following Lagerberg)".
- 25.05.2018: London (UK), Imperial College, Geometry and Topology Seminar, "Links of normal surface singularities and non-Kahler manifolds".
- 31.05.2018: Toulouse (France), Université Paul Sabatier, ANR Lambda final conference, "Normal surface singularities admitting special local dynamical systems".
- 07.06.2018: Paris (France), Paris VI, Séminaire Géométrie Algébrique, "Entrelacs de singularités normales de surface et variétés non-kahlériennes".
- 15.06.2018: London (UK), Imperial College, Junior Geometry Seminar, "Local dynamics of non-invertible self-maps on normal surface singularities".
- 03.11.2018: Beijing (China), BICMR PKU, Beijing Algebraic Geometry Colloquium, "Algebraically stable models for holomorphic maps on normal surface singularities".

2019.

- 22.01.2019: Nice (France), Université Nice Sophia Antipolis, Laboiratoire Dieudonné, Séminaire Géométrie Analyse et Dynamique, "Dynamique locale et modèles algébriquement stables pour germes holomorphes non-inversibles en dimension 2.".
- 14.03.2019: Marseille (France), Aix Marseille Université, Institut de Mathématiques, Séminaire Singularités, "Ultrametric properties for valuation spaces of normal surface singularities".
- 15.05.2019: Palaiseau (France), Rencontre ANR Fatou, "Hybrid spaces and dynamics I" minicours, second part given by Romain Dujardin.
- 04.06.2019: Beijing (China), BICMR PKU, lecture group on Berkovich spaces, "Hybrid spaces and applications".

2020.

- 17.02.2020: Marseille (France), Aix Marseille Université, Institut de Mathématiques, Séminaire Géométrie, Dynamique et Topologie, "Dynamique locale et modèles algébriquement stables pour germes holomorphes non-inversibles en dimension 2".

2021.

- 17.02.2021: (online) Fortaleza (Brazil), Universidade Federal do Ceará, Seminário de Singularidades, "The angular distance on valuation spaces and applications".
- 01.04.2021: (online) Nantes (France), Laboratoire de Mathématiques Jean Leray, Séminaire de topologie, géométrie et algèbre, "Local dynamics of holomorphic maps on normal surface singularities".

- 07.12.2021: Avignon (France), Laboratoire de Mathématiques d'Avignon, Séminaire de Systèmes dynamiques, Analyse et Géométrie, "Dynamique locale des germes holomorphes non-inversibles en dimension deux".

2022.

- 07.06.2022: Paris (France), Paris VII, Séminaires Singularités, "Birational properties of tangent to the identity germs in dimension 3".
- 15.06.2022: (online) Meeting on local dynamics in positive characteristic 2022, "On the local dynamics of non-invertible germs in positive characteristic".
- 17.06.2022: Orléans (France), Université d'Orléans, Journées ANR Fatou, "Birational properties of tangent to the identity germs in dimension 3".
- 21.09.2022: Paris (France), Institut Henry Poincaré, Séminaire de dynamiques complexes, "Dynamique locale des germes superattractifs en dimension 2".

2023.

- 06.09.2023: Pisa (Italy), XXII Congresso UMI, "Singolarità autosimili e superfici di Kato".
- 27.09.2023: Luminy (France), CIRM, Singularity conference, "Tangent to the identity germs and resolution of vector fields".
- 17.11.2023: Hangzhou (China), Westlake University, "Resolution of vector fields and applications to parabolic dynamics".

2024.

- 16.01.2024: Angers (France), LAREMA, Séminaire systèmes dynamiques et géométrie, "".
- 02.02.2024: Toulouse (France), IMT, Séminaire de systèmes dynamiques, "".

Minicourses

- 09,17,24.04.2008 (9h) : Pisa (Italy), Università di Pisa, "Foliazioni olomorfe: Classificazione nel dominio di Siegel".
- 04,11,18.09.2019 (5h) : Beijing (China), BICMR PKU, "Local dynamical systems and valuations".
- 06-09.11.2019 (4h30) : Istanbul (Turkey), Galatasaray University, Minischool on singularities of surfaces, "Intersection theory on valuation spaces and applications".
- 25.10, 1-8-15-22.11, 6-13.12.2013 (10h30) : Beijing (China), BICMR PKU, "Resolution of vector fields and applications to parabolic dynamics".

Popular seminars

- 16.07.2008: Colle di Val d'Elsa (Italy), Orientamento universitario, "Frattali: i disegni del caos".
- 05.02.2014: Paris (France), Paris VII-IREM, Math Monde 2014, "La géométrie dans l'espace : Italie".
- 18.05.2016: Paris (France), Paris VII-IREM, Math Monde 2016, "La géométrie : Italie".

(Co-)organized workshops and conferences

- 29.09-01.10.2014: Paris VII, Paris (France), "Singularités et Géométrie tropicale" (with H.Mourtada and B.Teissier), `https://sites.google.com/site/singtrop2014/`.
- 05-07.10.2015: Paris VII, Paris (France), "Singularités et Géométrie tropicale" (with H.Mourtada and B.Teissier), `https://sites.google.com/site/singtrop2015/`.
- 17-19.10.2016: Paris VII, Paris (France), "Resolution of singularities of foliations" (with H.Mourtada and B.Teissier), `https://sites.google.com/site/resfol2016/`.

- 04-06.12.2017: Paris VII, Paris (France), "Theory of valuations" (with A.B. De Felipe, H.Mourtada and B.Teissier), https://sites.google.com/site/valth2017/.
- 17-19.12.2018: Paris VII, Paris (France), "Free divisors and hyperplane arrangements" (with A.B. De Felipe, J. Déserti, H.Mourtada and B.Teissier), https://sites.google.com/site/freehyperp/.
- 16-18.12.2019: Paris VII, Paris (France), "Hilbert schemes, Mckay correspondence and singularities" (with P. Afsharijoo, A.B. De Felipe, H. Mourtada and B. Teissier), https://sites.google.com/site/hilbmck2019/.
- 23-27.11.2020: Paris VII, Paris (France), GDR Meeting "Singularities and applications" (with P. Afsharijoo and H. Mourtada, organizing commettee), https://sites.google.com/site/gdrsing2020/.
- 29.08-02.09.2022: Cortona (Italy), INDAM Meeting "New trends in holomorphic dynamics" (with L. Arosio, F. Bianchi and J. Raissy), https://sites.google.com/view/hds-cortona-2022.
- 21-25.11.2022: Paris (France), "Singularities and applications" (with A. Belotto da Silva, H. Mourtada and B. Teissier), https://sites.google.com/view/singparis-2022/.

(Co-)organized seminars

- 09.2016-present: Paris VII, Paris (France), "Séminaires des Singularités" (with A.Belotto da Silva, H.Mourtada and B.Teissier), https://www.imj-prg.fr/gestion/evenement/affEvenement/61.
- 09.2017-present: Paris VII, Paris (France), "Colloquium de Géométrie et Dynamique" (with Y.Martinez-Maure, R.Petrides and A.Zorich), https://www.imj-prg.fr/gestion/evenement/affEvenement/90.

Research projects activities

- 2012-2017: member of the project ERC "Nonarcomp" (coordinated by: Charles Favre).
- 2018-2022: member of the project ANR JCJC "Fatou" (coordinated by: Thomas Gauthier).
- 2019-2021: member of the project PHC Bosphore Turquie (coordinated by: Meral Tosun and Camille Plénat).
- 2022-2026: member of the project ANR "Sintrop" (coordinated by: Patrick Popescu Pampu).
- 2022-2026: member of the GDR "Singularités et Applications, 2945" (local contact for Université Paris Cité-Sorbonne Université).

Other responsabilities

- 09.2015-11.2018: Representative at the Département Sciences Exactes for the UFR de Mathématiques, Université Paris-Diderot.
- 09.2015-11.2018: Member of the "commission pédagogique" for the UFR de Mathématiques, Université Paris-Diderot.
- 01.2019-09.2020: Member of the "comité de prospective et recrutement" (CPR) for IMJ-PRG.
- 10.2019-present: Member of the "comité parité" for IMJ-PRG.
- Member of hiring committée: MCF Nice 2019, MCF Angers 2021.
- Evaluation for: 1 project SONATA 2017 (Poland).
- Referee for
  - International Mathematics Research Notices,
  - Nonlinearity,
  - Conformal Geometry and Dynamics,
  - Ergodic Theory and Dynamical Systems,
  - Journal of Modern Dynamics,
  - Journal of London Mathematical Society,

  - Annales de la faculté de sciences de Toulose.
- Quick referee (opinion) for
  - Transactions of the American Mathematical Society,
  - Mathematische Zeitschrift,
  - Journal of Modern Dynamics.
  - Michigan University Mathematical Journal.
- Reviewer for Mathscinet.

Teaching

Unless otherwise specified, teachings took place in the university I was affiliated at the moment.

A.Y. 2007-2008.

- annual: tutor "Matematica I" (Mathematics I) (classes G. Da Prato, exercise sessions F. Bonsante), 1st year Maths and Physics at Scuola Normale Superiore (Pisa, Italy).
- 12-18.07.2008: tutor for mathematics at the pre-universitary course organized in Colle di Val D'Elsa (SI, Italy).

A.Y. 2008-2009.

- annual: tutor "Analisi Complessa" (Complex Analysis) (classes G. Tomassini, exercise sessions F. Callegaro), 2nd year Maths and Physics at Scuola Normale Superiore (Pisa, Italy).

A.Y. 2009-2010.

- 1st semester: tutor "Seminario Fisico-Matematico I" (Physics-Mathematics seminar I) (classes F. Ricci, exercise sessions A.Mennucci), 1st year Maths and Physics at Scuola Normale Superiore (Pisa, Italy).

A.Y. 2013-2014.

- 1st semester: classes and exercise sessions "MM1 - Algèbre et analyse élémentaires I", 1st year Chemistry.
- 2nd semester: exercise sessions "MA2 - Algèbre et analyse élémentaires II" (classes F. Han), 1st year Applied Maths.

A.Y. 2014-2015.

- 1st semester: classes and exercise sessions "MM1 - Algèbre et analyse élémentaires I", 1st year Maths.
- 1st semester: exercise sessions "U1CD35 - Calcul différentiel et topologie" (classes M. Brunaud), 3rd year Applied Maths.

A.Y. 2015-2016.

- 1st semester: classes and exercise sessions "MM1 - Algèbre et analyse élémentaires I", 1st year Maths.
- 1st semester: exercise sessions "U1CD35 - Calcul différentiel et topologie" (classes M. Brunaud), 3rd year Applied Maths.
- 2nd semester: exercise sessions "U1FA36 - Fonctions holomorphes" (classes D. Gerard-Varet), 3rd year Maths.

A.Y. 2016-2017.

- 1st semester: exercise sessions "U1CD35 - Calcul différentiel et topologie" (classes M. Brunaud), 3rd year Applied Maths.
- 2nd semester: classes and exercise sessions "MMAL2 - Algèbre élémentaire II", 1st year Maths.
- 2nd semester: oral tests "MM2 - Algèbre et analyse élémentaires II", 1st year Maths.
- 2nd semester: exercise sessions "U1FA36 - Fonctions holomorphes" (classes D. Gerard-Varet), 3rd year Maths.

A.Y. 2017-2018.

- 2nd semester: exercise sessions "MC2 - Algèbre élémentaire II", 1st year Chemistry.
- 2nd semester: oral tests "MM2 - Algèbre et analyse élémentaires II", 1st year Maths.
- 2nd semester: exercise sessions "U1FA36 - Fonctions holomorphes" (classes D. Gerard-Varet), 3rd year Maths.

A.Y. 2018-2019.

- 1st semester: classes of Undergraduate Young Talent Project "Holomorphic Dynamical Systems", 3rd-4th year Maths at BICMR, PKU (Beijing, China).
- 2nd semester: classes and exercise sessions "MMAL2 - Algèbre élémentaire II", 1st year Maths.
- 2nd semester: exercise sessions "MC2 - Algèbre élémentaire II", 1st year Chemistry.
- 2nd semester: exercise sessions "UDMT42 - Topologie Algébrique" (classes E. Letellier), 4th year Maths.

A.Y. 2019-2020.

- annual: classes "Preparation for Agrégation Interne".
- 1st semester 2nd half: classes "Holomorphic Dynamical Systems", 5th year Maths.
- 2nd semester 1st half: exercise sessions "UDMT42 - Topologie Algébrique" (classes E. Letellier), 4th year Maths.
- 2nd semester: classes and exercise sessions "MMAL2 - Algèbre élémentaire II", 1st year Maths.

A.Y. 2020-2021.

- annual: classes "Preparation for Agrégation Interne".
- 1st semester 2nd half: classes "Holomorphic Dynamical Systems", 5th year Maths.
- 2nd semester 1st half: exercise sessions "UDMT42 - Topologie Algébrique" (classes E. Letellier), 4th year Maths.

A.Y. 2021-2022.

- annual: classes "Preparation for Agrégation Interne".
- 1st semester 2nd half: classes "TO5 - Topologie", 3rd year Maths.
- 2nd semester: exercise sessions "MP4 - Mathématiques 4" (classes G. Skandalis), 2nd year Physics.
- 2nd semester 1st half: exercise sessions "RM2 - Raisonnement mathématique 2" (classes C. Gille), 1st year Maths.
- 2nd semester 2nd half: exercise sessions "GD8 - Géométrie différentielle" (classes F. Hélein), 4th year Maths.

A.Y. 2022-2023.

- annual: classes "Preparation for Agrégation Interne".
- 1st semester: exercise sessions "CD5 - Calcul différentiel et topologie" (classes R. Petrides), 3rd year Maths-Informatics (replacing Marc Brunaud).
- 1st semester 2nd half: classes "TO5 - Topologie", 3rd year Maths.
- 2nd semester: exercise sessions "MP4 - Mathématiques 4" (classes M. Bonnivard), 2nd year Physics.
- 2nd semester 2nd half: exercise sessions "GD8 - Géométrie différentielle" (classes F. Hélein), 4th year Maths.
- 2nd semester: classes and exercise sessions "MPint4 - Interactions Maths-Physique 4", 2nd year Maths.

A.Y. 2023-2024.

- annual: classes "Preparation for Agrégation Interne".
- 2nd semester: exercise sessions "MP4 - Mathématiques 4" (classes M. Bonnivard), 2nd year Physics.
- 2nd semester 2nd half: exercise sessions "GD8 - Géométrie différentielle" (classes M. Rosso), 4th year Maths.

- 2nd semester: classes and exercise sessions “MPint4 - Interactions Maths-Physique 4”, 2nd year Maths.

Student mentoring

Master thesis.

- 2020: Damien Coll, “Réduction des singularités d’un feuilletage holomorphe en dimension 2”.
- 2021: Kémo Morvan, “Classification des automorphismes contractants sur les singularités normales de surfaces complexes”.

PhD students.

- 2022-2025: Kémo Morvan, École Doctorale 386 Université Paris Cité, in codirection with André Belotto da Silva.
- 2022-2028: Bilal Balo, École Doctorale 386 Université Paris Cité, in codirection with Hussein Mourtada.

Various skills

Languages.

- Italian: written and spoken, first language.
- English: written and spoken, advanced.
- French: written and spoken, advanced.

Informatics skills.

- Operating systems: Windows and Linux (intermediate).
- Markup languages: Word, Office, Html, Latex, Luatex.
- Programming languages: C, C++, Sage.
- Graphic tools: Inkscape, Geogebra.