

Currently Qualification

2017/2019	PostDoc , Institute of Mathematical Sciences and Computations (ICMC-USP, São Carlos, Brazil).
2013	PhD in Mathematics (Summa Cum Laude First Class Honors).
2010	Graduate of Advanced Teaching in Mathematics.

Education & Qualification

2017/2019	PostDoc , founded by the Foundation for Research Support of the State of São Paulo, Institute of Mathematical Sciences and Computations (ICMC, São Carlos, Brazil).
2017/2018	Diploma of University , "Lights on the Univers", Observatory of Paris.
2015/2017	PostDoc , founded by the Japanese Society for the Promotion of Science (JSPS), Tokyo Gakugei University, Department of Mathematics.
2014/2015	Temporary Assistant Professor , Fourier Insitute (Grenoble), Topology team.
2013/2014	Temporary Assistant Professor , University of Pau, Algebra and Geometry team.
2013 to 2010	PhD in mathematics and monitoring , University of Pau, Algebra and Geometry team & University of Zaragoza, Geometry and Topology team, defended in December, 6th 2013. Title: <i>Topological invariants of line arrangements</i> . <i>Advisors</i> : E. ARTAL BARTOLO, V. FLORENS and J. VALLÈS. <i>Reviewers</i> : A. DEGTYAREV, A. DIMCA and M. YOSHINAGA.
2009/2010	Advanced Teaching in Mathematics (agrégation externe), University of Rouen.
2007 to 2009	Masters in Fundamental Mathematics , University Paris VI. <i>Advisor</i> : J. MICHEL. Title: <i>Complex reflections groups, braids groups and Hecke algebra</i> .
2004 to 2007	Bachelors of Mathematics and Applications , University François Rabelais (Tours).

Research areas

- **Algebraic Geometry**: Plane curves, Fundamental group, Coverings, Singularities, Configurations and Arrangements of linear subspaces.
- **Topology**: Complex manifolds, Homology with local coefficients, Milnor fibration.

Academic references

- J.B. MEIHLAN, Fourier Institute (France).
- H. TOKUNAGA, Tokyo Metropolitan University (Japan).
- E. ARTAL, University of Zaragoza (Spain).

Publications & Preprints

★ Main publications

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| 2018 | Topology and homotopy of lattice-isomorphic line arrangements , arXiv-1801.02682, 8 pp, (submitted). |
| 2017 | Fundamental groups of real line arrangements and torsion in the lower central series , to appear in <i>Experimental Mathematics</i> , arXiv-1704.04152, 9 pp, with E. Artal and J. Viu-Sos.
★ Configurations of points and topology of real line arrangements , arXiv-1702.00922, 52 pp, with J. Viu-Sos, (submitted). |
| 2016 | On the topology of arrangements of a cubic and its inflectional tangents , <i>Proceedings of the Japan Academy, Ser. A, Mathematical Sciences</i> , arXiv-1607.07618, 6 pp, with S. Bannai, T. Shirane and H. Tokunaga.
Non-homotopicy of the linking set of algebraic plane curves , <i>Journal of Knots Theory and its Ramifications</i> , arXiv-1602.04916, 12 pp, with T. Shirane.
★ A linking invariant for algebraic curves , arXiv-1602.04916, 18 pp, with J.B. Meilhan, (submitted). |
| 2015 | An arithmetic Zariski pair of line arrangements with non-isomorphic fundamental group , <i>Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas</i> , arXiv-1507.00190, 26 pp, with E. Artal, J.I. Cogolludo and M.A. Marco.
★ Multiplicativity of the \mathcal{L}-invariant and topology of glued arrangements , <i>Journal of the Mathematical Society of Japan</i> , arXiv-1506.08227, 15 pp.
Dynamical approach to logarithmic vector fields , arXiv-1412.0137, 13 pp, with J. Viu-Sos. An announcement version is published in <i>Monographs of the "García de Galdeano" Mathematics</i> . |
| 2014 | ★ An arithmetic Zariski 4-tuple of twelve lines , <i>Geometry and Topology</i> , arXiv-1411.2300, 16 pp.
★ A topological invariant of line arrangements , <i>Annali della Scuola Normale Superiore di Pisa - Classe di Scienze</i> , arXiv-1407.3387, 19 pp, with E. Artal and V. Florens,. |
| 2013 | On complex line arrangements and their boundary manifolds , <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , arXiv-1305.5645, 18 pp, with V. Florens and M.A. Marco. |

Grants and Awards

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| 2017 | Awarded of a Post-doctoral grant from the Foundation for Research Support of the State of São Paulo (Brazil). |
| 2017 | Ranked second for the Brunella Post-doctoral grant in Bourgogne University (France). |
| 2016 | Interviewed for a tenure position in Bourgogne University (France). |
| 2014 | Awarded of a Post-docotral grant from the Japanese Society for the Promotion of Science (Japan). |

Communications in International Meetings

July 2016	63th Topology Symposium , Kobe (Japan).
July 2016	13th Workshop on algebraic surfaces , Kochi (Japan).
Mar. 2016	Workshop on Hyperplane Arrangements and Singularity Theory , Sapporo (Japan).
Mar. 2016	AMS Sectional Meeting , Stony Brook (New York, USA).
Jan. 2016	3rd Workshop on Algebraic Geometry , Ube (Japan).
Aug. 2015	Workshop Hyperplane arrangements and reflection groups , Hanover (Germany).
Dec. 2014	Day on Hyperplane Arrangements , Nancy (France).
Sept. 2014	First workshop of JSPS-MAE Sakura Program Geometry and Combinatorics of Hyperplane Arrangements and Related Problems , Sapporo (Japan).
Aug. 2014	Second Franco-Japanese-Vietnamese Symposium on Singularities , Sapporo (Japan).
Feb. 2014	Winter Braids IV , Dijon (France).
Sept. 2012	XII International Conference Zaragoza-Pau on Applied Mathematics and Statistics , Jaca (Spain).

Teaching Experiences

- **Temporary Assistant Professor at University J. Fourier**

2014/15	Differential equation , L2 Physics, exercices. Mathematics , L1 Math and I.T., courses and exercices.
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- **Temporary assistant professor at University of Pau**

2013/14	Masters thesis , L3 Mathematics, examiner and reviewer. Group theory , L2 Mathematics, courses and exercices. Initiation at the Statistic Modelization , L2 Mathematics Applied to Social Sciences, courses and exercices. Linear Algebra for I.T. , L1 I.T., exercices. Elementary algebra , L1 Natural Sciences, courses and exercices.
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- **Monitorat at University of Pau**

2012/2013	Algebraic Topology , M1 Mathematics, exercices.
2011 to 2013	Groups theory , L2 Mathematics, courses and exercices.
2010/2011	Geometry , Year of Preparation for an Insertion in Scientific Licence, courses and exercices.

Professional skills

• Linguistic:	French: native language	English: working knowledge		
	German: intermediate	Japanese: beginner		
• Computer skills:	Sage	Maple	GAP	Scilab
	Geogebra	Javascript	Pascal	Asymptote
	L ^A T _E X	Beamer	TiKz	HTML & CSS3