Octave Curmi

Curriculum vitae December 2019

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Born October 21, 1992.

Education

Oct 2015 – **PhD student in mathematics**, "Topology of the Milnor fibers of nonisolated June 2019 surface singularities", with Patrick Popescu-Pampu, Université Lille, France.

Jury composed of:

- Javier Fernández de Bobadilla, Referee.
- Hussein Mourtada.
- Anne Pichon, Referee.
- Martin Saralegui Aranguren.
- Bernard Teissier.
- 2014 2015 Master in pure mathematics, Université de Lille.
 - 2014 "Agrégé de mathématiques" (Title obtained by competition, entitling to a teacher position in the national education system).

Experience

Preprints

- Oct 2019 **Topology of smoothings of non-isolated singularities of complex surfaces**, *43 pages*, Available at https://arxiv.org/pdf/1910.04145.pdf.
- Nov 2019 **Boundary of the Milnor fiber of a Newton non degenerate surface singularity**, *33 pages*, Available at https://arxiv.org/pdf/1911.13258.pdf.

Positions

Sep 2018 – **ATER (temporary research and teaching position)**, *Université Aix-Marseille*, Aug 2020 *France*.

Talks given

- Nov 2019 "Topology of smoothings of non-isolated singularities of complex surfaces", Workshop on Topological and Analytical methods in singularity theory, Guanajuato, Mexico.
- July 2019 "Singularities in Topology", Wide audience talk for students an teachers, Lebanese International University, Beyrouth, Lebanon.

- July 2019 "Topology of smoothings of non-isolated singularities of complex surfaces", Singularity theory session of the conference "Joint meeting France-Brazil in Mathematics", IMPA, Rio, Brazil.
- July 2019 Short course around Mumford's "The topology of normal singularities of an algebraic surface and a criterion for simplicity" (1961), Galatasaray University, Istanbul, Turkey.
- June 2019 "Topology of smoothings of non-isolated singularities of complex surfaces", Weekly seminar of topology, geometry and algebra, Université de Nantes, France.
- May 2019 Short course "Around Milnor's fibration theorem: an interplay of algebra and topology", 1st Najah short courses in mathematics, An-Najah University, Nablus, Palestine.
- May 2019 "Topology of smoothings of non-isolated singularities of complex surfaces", Weekly seminar of singularities, Université Paris Diderot, France.
- Apr 2019 **"Topology of smoothings of non-isolated singularities of complex surfaces"**, *Weekly seminar of algebraic geometry*, Université de Lille, France.
- Apr 2019 "Topology of smoothings of non-isolated singularities of complex surfaces", Weekly seminar Singacom, Universidad de Valladolid, Spain.
- Mar 2019 **"Topology of non-isolated singularities of complex surfaces"**, Weekly seminar of dynamical systems and geometry, Université d'Angers, France.
- Feb 2019 **Some bases of toric geometry, I & II**, Weekly workshop on singularities, Université d'Aix-Marseille, France.
- Nov 2018 **"Topology of non-isolated singularities of complex surfaces"**, Weekly seminar of complex geometry, Université d'Aix-Marseille, France.
- Oct 2018 **"Topology of non-isolated singularities of complex surfaces"**, Workshop "Lipschitz Geometry of Singularities", Casa Matemática Oaxaca, Oaxaca, Mexico.
 - The following talks were given during the seminar "GEOMETRY OF SIN-GULAR SPACES" at Université de Lille.
- Nov 2017 "About Klein's formula for plane curves".
- Nov 2017 "Plücker's formulae for plane curves".
- Apr 2017 "Nonisolated surface singularities studied à la Némethi-Szilard".
- Jan 2017 "Topology of non-degenerate normalized surface singularities".
- June 2016 "Topology of isolated non-degenerate surfaces singularities, following Oka".
- Feb 2016 "Integral points in polygons and genus of curves in the torus".

Attended conferences

- Jul 2019 "Joint meeting France-Brazil in Mathematics", IMPA, Rio, Brazil.
- May 2019 "Geometry and Topology of Singularities", Alfréd Rényi Institute of Mathematics, Budapest, Hungary.
- Oct 2018 Workshop "Lipschitz Geometry of Singularities", Casa Matemática Oaxaca, Oaxaca, Mexico.

- June 2018 International school on Singularities and Lipschitz Geometry, Unidad Cuernavaca del Instituto de Matemáticas, UNAM, Mexico.
- Dec 2017 **Theory of Valuations**, Université Paris 7.
- July 2017 Galois Meets Newton: Algebraic and Geometric aspects of Singularity Theory, Conference in honor of A. Khovanskii, Weizmann Institute of Science, Israel.
- Feb 2017 A panorama on singular varieties, Conference in honor of Lê Dũng Tráng, Institute of Mathematics of the University of Sevilla IMUS, Spain.
- Nov 2016 The 4th Franco-Japanese-Vietnamese Singularities, Université Savoie-Mont Blanc, Chambéry, France.
- Oct 2016 **Resolution of foliations**, Université Paris 7, France.
- May 2016 Nonisolated singularities, Université de Lille, France.
- May 2016 Algebra, geometry and topology of singularities, One week of school and one week of conferences, Galatasaray University, Istanbul, Turkey.
- Feb 2016 Winter Braids VI, School on braids and low dimensional topology, Université de Lille, France.

Participation to research networks

2019 Involved in the project "Jets, arcs and invariants of surface singularities", along with M. Tosun (Galatasaray university, Turkey), C. Plénat (Aix-Marseille university, France), H. Mourtada (Université Paris-Diderot, France), M. Ruggiero (Université Paris-Diderot, France) and B. Karadeniz (Galatasaray university, Turkey), French-Turkish research project, implying a stay in Istanbul in July 2019.

Teaching

- 2019 2020 Teaching basic calculus and algebra to 1st and 2nd year students, 176 hours, Université Aix-Marseille, Marseille, France.
- 2018 2019 Teaching basic analysis and algebra to 1st and 2nd year students, 192 hours, Ecole Polytech Marseille, Marseille, France.
- 2015 2018 Assistant teacher in Télécom engineer school for 1st and 2nd year students, 64 hours of teaching per year, Université de Lille.
- 2014–2015 Oral examiner for weekly exams of bachelor students, Lycée Saint Paul, Lille.
- 2011 2016 **Teacher for private lessons**, in various contexts, as a volunteer or not.

Computer skills

Programming CAML, C++

Software LATEX, OpenOffice, Linux, Maple, IPE, Sage

Languages

French Mothertongue English **Fluent** Arabic, Spanish German Basic, currently learning Basic words and phrases