# One-year Post doc position at the Institut de Mathématiques de Marseille

Opening of a 1 year postdoc position at the Institut de Mathématiques de Marseille, Aix Marseille University and CNRS), France. http://www.i2m.univ-amu.fr. The institute develops a large spectrum of fields in pure and applied mathematics including algebraic geometry, singularity theory, topology, complex geometry, dynamical systems, analysis, probability, etc. The candidates should show their interest and competence in singularity theory, real and complex algebraic geometry and low-dimensional topology to participate in the «Lipschitz Geometry of Singularities (LISA)» project funded by the French Agence Nationale de la Recherche (ANR):

http://www.agence-nationale-recherche.fr/Project-ANR-17-CE40-0023

https://www.i2m.univ-amu.fr/ANR-LISA-2017-2021?lang=fr

The position is for 12 months non-renewable. We seek a person having preferably less than 3 years experience since the Ph.D. defense. Starting date is flexible, hopefully fall 2018.

**How to apply ?**
Applications must be sent by email to  anne.pichon@univ-amu.fr 

Requested documents :
1. Curriculum Vitae (max. 2 pages), list of publications
2. A covering letter
3. A scientific project (5 pages max.)
4. At least two recommendation letters. The letters of recommendation should be sent directly by the authors by email to  anne.pichon@univ-amu.fr .

Applications must be completed by **30 April 2018**, *23h59 Paris time*, including the recommendation letters.

**Decision**
The decision of the recruiting committee will be announced in June.

**Brief description of the scientific projet**
Lipschitz geometry of singular sets is an intensively developing subject which started in 1969 with the work of Pham and Teissier on the Lipschitz classification of germs of plane complex algebraic curves.
The LISA project, which is motivated by several important results obtained in this area during the last decade, has two main objectives: (1) Building classifications of Lipschitz geometry in large settings such as non-isolated and high dimensional complex singularities, function germs, and in the global, semi-algebraic and o-minimal settings, (2) Developing bridges between Lipschitz geometry and three other aspects of singularity theory: equisingularity, embedded topology, arc spaces and resolution theory. These three topics are classical areas of singularity theory, but their relations with Lipschitz geometry remain almost unexplored.
The post-doc researcher will work on one or several of these research directions in collaboration with members of the LISA project, in particular Anne Pichon and David Trotman in Marseille.