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Contact

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Chronology

1996-2004 attends week-end clubs of mathematics, computer science and physics for pupils animated by voluntary teachers
2004 graduates high-school
2004 wins a nationwide contest and gains a scholarship from Fondation de France which finances 2 years of studies in Paris
2004-2005 learns French at the Institut français in Bucharest
studies math at the University of Bucharest
2005-2007 studies maths, physics and computer science at Louis le Grand de Paris
2007 is admitted at École Polytechnique but refuses and goes at ENS de Lyon
2007-2008 bachelor degree in mathematics à ENS de Lyon
2008-2009 first year of master in mathematics at ENS de Lyon
2009-2010 master degree in computer science at ENS de Lyon
2010 becomes teacher of mathematics after the agrégation selection exam but postpones affiliation for the time of doctoral studies
2010-2013 PhD. in algorithmic number theory and cryptography
2014 post-doctoral researcher at École polytechnique (LIX laboratory)
2014-present permanent researcher at CNRS, member of the number theory team of Imj-prg.

Research

Almost all works are done in collaboration.

security of pairings cryptography	In 2013 with three colleagues breaks the small characteristic industrial standards agencies forbid their utilization. In 2016 breaks the recommended standards for the remaining pairings and implying modifications.
formulae for multiplication	In 2012 discovers new formulae which spare computations for multiplication in \mathbb{F}_{3^5}
families of elliptic curves	In 2009 discovered families of elliptic curves suited for a factorization algorithm
study of Greenberg's conjecture	In 2017 makes progress on a number theory conjecture

Teaching

2011-2013	teacher's assistant at Telecom Nancy, engineering school in computer science
2014-present	teaches at University Paris 6 and University Paris 7: preparation for future teachers of mathematics (master degree) master degree in computer science and bachelor degree in mathematics
2016-present	directs the PhD thesis of Sudarshan Shinde with Pierre-Vincent Koseleff
2014-present	directs internships in mathematics and computer science

Activities with school students around mathematics

2005	takes part at the correction of the selection of the national team of Romania for the Junior Balkan mathematics olympiad
2005-2007	gives private classes to a 13 year old pupil (remunerated)
2007-2010	after school assistance for pupils of immigrants in Lyon (voluntary)
2008-2010	private classes of mathematics for pupils at Vaux-en-Velin (voluntary)
2012-present	teaches in maths summer camps of Animath (voluntary) to school pupils including some members of the national team of France for the International mathematics olympiad
2012-present	lectures at the Paris club of mathematics (www.parimath.fr) for young school students passionate in mathematics (voluntary)
2015	writes a chapter in "5 jeune chercheurs d'avenir", Cédric Villani, Le Pommier.
2015-present	co-organizes the national contest of cryptography Alkindi with Mathias Hiron and Matthieu Lequesne

Administrative tasks

2013	elected representative of PhD students at the IAEM PhD school (University of Lorraine)
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