

# Boulos El Hilany

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Born: 01 March 1990  
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## Education

<b>2013-</b>	<b>PHD student supervised by Frédéric BIHAN.</b> <i>LAMA, University of Savoy Mont Blanc, Le Bourget-du-Lac, France.</i> “Tropical Geometry and Polynomial Systems”
<b>2013</b> (2 months)	Stage of 2 <sup>nd</sup> master year supervised by Frédéric BIHAN, <i>LAMA, University of Savoy Mont Blanc, Le Bourget-du-Lac, France.</i> “Tropical Curves and Amoebas”
<b>2012–2013</b>	2 <sup>nd</sup> master year in pure mathematics, option: Riemannian Geometry, <i>Lebanese University, École Doctorale de Sciences et Technologies.</i>
<b>2011–2012</b>	1 <sup>st</sup> master year in pure mathematics, <i>Lebanese University, Faculty of Science 2.</i>
<b>2008–2011</b>	Bachelor degree in pure mathematics, <i>Université Libanaise, Lebanese University, Faculty of Science 2.</i>
<b>2007–2008</b>	High School diploma, option: General Sciences, <i>Deddeh Official High school, North Lebanon.</i>

## Research Topics

Tropical Geometry, Sparse Polynomial Systems, Real Algebraic Geometry,  
Grothendieck’s Dessins d’enfant.

## Pre-publications

	B. El Hilany. <i>Characterization of circuits supporting polynomial systems with the maximal number of positive solutions.</i> In preparation.
<b>2015</b> (Dec.)	B. El Hilany. <i>Counting positive intersection points of a trinomial and a <math>t</math>-nomial curves via Grothendieck’s dessin d’enfant.</i> (32 pages) Submitted, arXiv:1512.05688.

<b>2015</b> (June.)	F. Bihan, B. El Hilany. <i>A sharp bound on the number of real intersection points of a sparse plane curve with a line.</i> (10 pages) Submitted, arXiv:1506.03309.
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## Conferences and Workshops

<b>2016</b> (Jan.)	<i>Singularity Workshop Meeting.</i> CIRM, Marseille, France.
<b>2015</b> (Oct.)	<i>Singularities and Tropical Geometry.</i> IMJ-PRG, Paris, France.
<b>2015</b> (June)	<i>Algebraic Complexity Meeting.</i> ENS Lyon, France.
<b>2015</b> (June)	<i>Effective Methods in Algebraic Geometry (MEGA).</i> Povo center, Trento, Italy.
<b>2015</b> (Feb.)	<i>Jeunes Chercheurs en Singularité.</i> CIRM, Marseille, France.
<b>2014</b> (Jan.)	<i>Tropical Geometry in its Complex and Symplectic Aspects.</i> Bernoulli Center, EPFL, Switzerland.

## Organization

<b>2015</b> (1 week)	Conference for PhD students in math: <i>Colloque Inter'Actions.</i> University of Grenoble, France.
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## Teaching activity

<b>2015-2016</b>	<i>Reinforcement math courses</i> , University of Savoy Mont Blanc, 20 hrs Math 326, <i>Fourrier Series</i> , University of Savoy Mont Blanc, 25 hrs Math 121b, <i>Basic Calculus</i> , University of Savoy Mont Blanc, 55 hrs
<b>2014-2015</b>	Math 611, <i>Inferential Statistics</i> , University of Savoy Mont Blanc, 30 hrs Math 401, <i>Statistics and Probability</i> , University of Savoy Mont Blanc, 12 hrs

## Skills

SAGE	Intermediate
Maple	Basic

## Languages

Arabic	Reading, Writing, Speaking 1 <sup>st</sup> Native language.
Russian	Reading, Writing, Speaking 2 <sup>nd</sup> Native language.
English	Reading, Writing, Speaking Fluent.
French	Reading, Writing, Speaking Fluent.