

Marco Flores

Curriculum Vitae

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Education

- 2017 - 2019 M.Sc. in Mathematics, Freie Universität Berlin.
- 2012 - 2017 B.Sc. in Mathematics, Universidad de Guanajuato.

Academic Experience

Seminar Organization

- Winter 19/20 Abelian Varieties, HU Berlin.
- Summer 2019 Modular Forms, HU Berlin.

Selected Talks

- Nov 2019 HU Berlin: *Cohomological dimension of projective schemes in pro- p towers*. Arithmetic Geometry research seminar.
- May 2019 HU Berlin: *Compactly supported direct images of Frobenius Modules*. Seminar on Riemann-Hilbert correspondence in characteristic p .
- Sep 2018 U Guanajuato: *Kummer vs Fermat, bringing algebra to its final consequences*. Mathematics Seminar for Undergraduate Students.
- May 2018 FU Berlin: *Homotopy theoretic interpretation of vector bundles*. K-theory seminar .
- Jun 2017 CIMAT Guanajuato: *Algebraic curves and configurations of points in \mathbb{P}^1* . Algebraic Geometry Seminar.
- Mar 2017 UNAM Oaxaca: *Representations of $SL(4, \mathbb{C})$* . Representation Theory Seminar.
- Oct 2016 49th National Congress of Mathematicians: *Convexity in a certain Teichmüller space*. Differential Geometry special session. Aguascalientes, Mexico.
- Oct 2015 48th National Congress of Mathematicians: *Local properties of plane algebraic curves*. Undergraduate students special session. Hermosillo, Mexico.

Teaching Assistanships

- Spring 2016 Commutative Algebra, U Guanajuato.
- Fall 2015 General Topology, U Guanajuato.
- Spring 2015 Abstract Algebra, U Guanajuato.

Mathematical Events Attended (after selection process)

- Feb 2017 BMS Days and Student Conference in Berlin, Germany.
- Dec 2016 Workshop in Algebraic Geometry in Morelia, Mexico.
- Jul-Aug 2016 Undergraduate Summer Research Program at the Fields Institute in Toronto, Canada.
- Feb-Mar 2016 School on Moduli of Curves in Guanajuato, Mexico.

- Dec 2015 Workshop in Algebraic Geometry in Morelia, Mexico.
- Dec 2015 II School in Topological Data Analysis in Querétaro, Mexico.
- July 2015 XV Summer School in Mathematics in Morelia, Mexico.
- June 2015 XI Mathematical School of Latin America and the Caribbean in Puebla, Mexico.
- Dec 2014 School of Knots and 3-Manifolds in Guanajuato, Mexico.
- July 2013 International Mathematics Summer School for Students, hosted by Jacobs University in Bremen, Germany.

Service

- 2018 Co-organizer of the What is..? seminar of the Berlin Mathematical School.
- 2015 - 2016 President of the Students Society of the Mathematics Department, U Guanajuato.
- 2014-2016 Head organizer of the Mathematics and Computer Science Seminar for Students of the University of Guanajuato.
- 2014-2015 Coach for the National Mexican team in route to the 17th and 18th Central American and Caribbean Mathematical Olympiad.
- Aug 2013 Local staff at the 1st Mathematical Congress of the Americas.
- 2012-2013 Coach for the state of Guanajuato at the 27th Mexican Mathematical Olympiad.

Awards and Honours

- 2018 Honourable Mention, Sotero Prieto Prize for best Bachelor thesis, awarded by the Mexican Mathematical Society.
- 2015 Excelency Medal, awarded each year by U Guanajuato to the student with the highest grades from each faculty and each class.
- 2011 Gold Medal, 25th National Mexican Mathematical Olympiad.
- 2010 Silver Medal, 24th National Mexican Mathematical Olympiad.

Scholarships

- 2019-2022 Math+ scholarship for Ph.D. studies.
- 2017-2019 Berlin Mathematical School scholarship for Master studies.
- 2016-2017 National Autonomous University of Mexico (UNAM) scholarship for realization of Bachelor thesis.
- 2012-2017 Science and Technology National Council (CONACyT) and Research Center in Mathematics (CIMAT) scholarship for undergraduate studies.
- 2012-2017 TELMEX Foundation scholarship for undergraduate studies.

Languages

- Spanish (native).
- English (fluent).
- German (elementary).