

ISABEL LEAL

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Last updated January 2019

EDUCATION

- 2012 – 2018 **Ph.D. in Mathematics**, The University of Chicago
Advisor: Kazuya Kato
- 2014 **M.S. in Mathematics**, The University of Chicago
- 2010 – 2012 **Master in Mathematics**, UNICAMP (State University of Campinas)
Advisor: Alberto Vazquez Saa
- 2006 – 2010 **B.S. in Mathematics**, UNICAMP

PAPERS AND PREPRINTS

- 2018 *Refined Swan conductors mod p of one-dimensional Galois representations*
Joint with Kazuya Kato and Takeshi Saito.
[Preprint.](#)
- 2018 *Generalized Hasse-Herbrand functions in positive characteristic*
[Preprint.](#)
- 2018 *Zero-cycles on a product of elliptic curves over a p -adic field*
Joint with Evangelia Gazaki.
[Preprint.](#)
- 2017 *On ramification in transcendental extensions of local fields*
Journal of Algebra, DOI: [10.1016/j.jalgebra.2017.11.004](https://doi.org/10.1016/j.jalgebra.2017.11.004).
- 2016 *On the ramification of étale cohomology groups*
Journal für die reine und angewandte Mathematik, DOI: [10.1515/crelle-2016-0035](https://doi.org/10.1515/crelle-2016-0035).

TEACHING EXPERIENCE

- 2019 Lecturer for Calculus (New York University)
- 2018 Lecturer for Linear Algebra (The University of Chicago)
- 2017 Lecturer for Mathematical Methods for Social Sciences (The University of Chicago)
- 2017 Lecturer for Linear Algebra (The University of Chicago)
- 2016 Lecturer for Mathematical Methods for Social Sciences (The University of Chicago)
- 2014 – 2016 Lecturer for Calculus - MATH 150's (The University of Chicago)

- 2013 – 2014 College Fellow for Honors Calculus IBL (The University of Chicago)
- 2012 TA for Analytic Geometry and Vectors (UNICAMP)
- 2009 TA for Calculus (UNICAMP)

SERVICE

- 2014 – 2018 Committee member for Directed Reading Program (The University of Chicago)
- 2013 – 2017 Mentor for Directed Reading Program - 6 projects (The University of Chicago)

HONORS AND FELLOWSHIPS

- 2010 – 2012 Master’s Fellowship from FAPESP (Foundation for Research Support of the State of São Paulo)
- 2009 First Place Bachelor’s Degree in Mathematics from UNICAMP
- 2009 Scientific Initiation Fellowship from FAPESP - “Introduction to geometric phases”
- 2008 Scientific Initiation Fellowship from FAPESP - “Introduction to Lie theory”
- 2006 First Place in UNICAMP Vestibular (undergraduate admissions exam) for Physics, Mathematics, and Applied Mathematics

INVITED TALKS

- September 2019 *IMPAN*, Wild Ramification and Irregular Singularities Conference (Poland)
- May 2019 *Caltech*, Algebra and Geometry Seminar
- May 2019 *UC Irvine*, Number Theory Seminar
- May 2019 *Princeton/IAS*, Number Theory Seminar
- November 2018 *SUNY Binghamton*, The Arithmetic Seminar
- November 2018 *Tohoku University*, p -adic Cohomology and Arithmetic Geometry Conference (Japan)
- July 2018 *UFRJ*, ICM satellite conference on Automorphic Forms, Galois Representations and L -functions (Brazil)
- February 2018 *MIT*, Number Theory Seminar
- January 2018 *Purdue University*, Algebraic Geometry Seminar
- December 2017 *Clemson University*, Palmetto Number Theory Series XXIX (Plenary speaker)
- November 2017 *University of Michigan*, Group, Lie and Number Theory Seminar
- August 2017 *University of Chicago*, Interactions between Representation Theory and Algebraic Geometry Conference (Introductory talk)