

Santiago Toro Oquendo

Nationality : Colombian

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EDUCATION

Université de Bretagne Occidentale, Brest, France

- Doctorat Nouveau Régime de Mathématiques Sep 2019 – Expected Mar 2024
Dissertation programmed for March 2024.
 - Thesis project : Simplicial C_2 -Isovariant Homotopy Theory.
 - Advisor : Prof. Johannes Huisman

Université Grenoble Alpes, Grenoble, France

- Master 2 Mathématiques et applications parcours Mathématiques fondamentales Sep 2018 – Jun 2019
 - Mémoire de stage : Applications of motivic homotopy theory to arithmetic counts of lines.
 - Advisor 1 : Prof. Johannes Huisman
 - Advisor 2 : Prof. Jean Fasel
 - Subjects : Algebraic Geometry, Algebraic Topology, Motivic Homotopy Theory

Universidad Nacional de Colombia sede Medellín, Medellín, Antioquia, Colombia

- Master in Mathematical Sciences Feb 2016 – Jun 2018
Unfinished because of acceptance to master in Grenoble.
- Bachelor's degree in Mathematics Feb 2012 – Nov 2015
Degree project : The Riemann Roch Theorem

PUBLICATIONS AND PREPRINTS

- [1] “Simplicial C_2 -Isovariant Homotopy Theory”.
Santiago Toro Oquendo,
Arxiv.2312.08133. 2023
- [2] “A model category for bifibrations”.
Cesar Bardomiano, Jana Nickel, Maru Sarazola, Paula Verdugo, Daniel Teixeira and Santiago Toro Oquendo. In preparation. 2024

CONFERENCES

- *Journées de géométrie algébrique réelle du Centre Henri Lebesgue*,
Vannes - France. Nov 2023
- *Birational Geometry and regulous functions*,
Centre Henri Lebesgue, Croisic - France. Jun 2023
- *Harnessing motivic invariants*,
University of Duisburg-Essen - Germany. Jul 2022
- *Géométrie au bout du monde*,
Centre Henri Lebesgue. Trez-Hir - France Jul 2022
- *Summer School : The Six-Functors Formalism and Motivic Homotopy Theory*,
University of Milan - Italia. Oct 2021
- *Toposes online*. Jun 2021
- *Journées de géométrie algébrique réelle du Centre Henri Lebesgue*,
Ushant Island - France. Oct 2019

- *Autumn school : Computations in motivic homotopy theory*,
University of Regensburg - Germany Sep 2019
- *XXI Colombian congress of mathematics*,
Universidad Nacional de Colombia sede Bogotá - Colombia. Jun 2017
- *V Latin-American congress of mathematicians (CLAM)*,
Universidad del Norte - Colombia. Jul 2016
- *XX Colombian congress of mathematics*,
Universidad Nacional de Colombia sede Manizales - Colombia. Jun 2015
- *Mathematics in the southern cone 2*.
Universidad de la República - Montevideo - Uruguay. Feb 2024

TALKS

- *A model structure for bifibrations*,
Journées de Géométries Poitiers - Angers. Poitiers - France. Feb 2024
- *C_2 -Simplicial isovariant homotopy theory*,
Journées de géométrie algébrique réelle du Centre Henri Lebesgue. Nantes - France. Jun 2023
- *Simplicial isovariant homotopy theory*,
Séminaires systèmes dynamiques et géométrie. LAREMA Angers - France. 2023
- \mathbb{A}^1 -connected components,
Working group ANR HQDIAG2023 organized by Frédéric Déglise and Jean Fasel, ENS de Lyon,
France. 2022
- *Working group The real cycle map*,
Weekly working group organized by Pierre Martinez. LMBA Brest - France. 2022-2023
The topics of my talks include : Sheaf cohomology and Witt rings.
- *Working group in higher category theory*,
Weekly working group organized by myself together with Johannes Huisman and Pierre Martinez.
LMBA Brest - France. 2021-2022
The topics of my talks include : Simplicial Categories, (Complete) Segal spaces and Quasicategories.
- *Théorie homotopique stable du site réel-étale*,
Working group ANR HQDIAG2022 organized by Frédéric Déglise, ENS de Lyon, France. 2022
- *On the homology spectral sequence of a cosimplicial space*,
electronic Computational Homotopy Theory (eCHT) seminar, Wayne State University, Department of
Mathematics, Detroit, USA. 2020

AWARDS & SCHOLARSHIPS

- Bourse d'excellence de master.
LabEx PERSYVAL-Lab, Université Grenoble Alpes. Sep 2018 – Jun 2019
- Half scholarship for tuition costs due to performance and academic average.
Universidad Nacional de Colombia sede Medellín Feb 2017 – Jun 2017
- Half scholarship for tuition costs due to performance and academic average.
Universidad Nacional de Colombia sede Medellín Aug 2017 – Dec 2017

TEACHING

AT UNIVERSITÉ D'ANGERS

- Teaching fellow,
LAREMA, Université d'Angers. Jan 2024- Aug 2024

- Temporary Assistant Professor (ATER in France),
LAREMA, Université d'Angers. Oct 2022- Aug 2023
As part of my teaching activities, I taught courses for first and second year students in the subjects : Linear algebra, Arithmetic over Z , Analytical Geometry and Mathematics for life sciences.

AT UNIVERSITÉ BRETAGNE OCCIDENTALE

- Graduate Instructor,
Département de Mathématiques - TD Mathématiques générales Sep 2021- Dec 2021
- Graduate Instructor,
Département de Mathématiques - TD Analyse 1 Jan 2022- Jun 2022

AT UNIVERSIDAD NACIONAL DE COLOMBIA, SEDE MEDELLÍN

- Graduate Instructor,
Department of mathematics - Linear algebra Feb 2016 – Dec 2016
Graduate Instructors from the Department of Mathematics of the Universidad Nacional de Colombia sede Medellín have to teach in an assigned course, provide two hours of weekly tutoring to students, and participate in grading exams.
- Graduate Instructor,
Department of mathematics - Differential calculus Feb 2017 – Jun 2017
- Graduate Instructor,
Department of mathematics - Integral Calculus Aug 2017 – Dec 2017

OTHER WORK EXPERIENCE

- Tutor online,** Dec 2015 – -
- Online tutor at tutor.com. Tutoring for U.S. college and university students in the following subjects : Algebra, Calculus, Trigonometry, Linear Algebra

LANGUES

- Spanish : Native.
- English : Fluent
- French : Fluent
- Italian : Elementary

SOFTWARE SKILLS

\LaTeX , Matlab, Wolfram Mathematica.

RESEARCH INTERESTS

Equivariant homotopy theory, Homotopy theory, Higher category theory and Motivic homotopy theory.