



Teo Gil Moreno de Mora i Sardà

Laboratoire d'Analyse et de Mathématiques Appliquées
Université Paris-Est Créteil
61 avenue du Général de Gaulle
94010 Créteil, France
teo.gil-moreno-de-mora-i-sarda@u-pec.fr

Universitat Autònoma de Barcelona
Departament de Matemàtiques
Facultat de Ciències
08193 Bellaterra, Spain
teo.gil@autonoma.cat

Education

- 2022 – 2025 **PhD in Mathematics**, *Université Paris-Est Créteil, Universitat Autònoma de Barcelona*, (cotutelle)
Supervisors: Stéphane Sabourau (UPEC), Florent Balacheff (UAB)
- 2021 – 2022 **M2 Master in Fundamental Mathematics**, *Sorbonne Université, Université Paris Cité, Université Sorbonne Paris Nord, France*
Thesis: Filling volume minimality for metrics close to the Euclidean metric.
Supervisor: Prof. Stéphane Sabourau
- 2017 – 2021 **BSc in Mathematics**, *Universitat Autònoma de Barcelona, Spain*
Thesis: Generalizations of the first Minkowski's theorem from a systolic geometry perspective.
Supervisor: Prof. Florent Balacheff
- 2015 – 2021 **BSc in Physics**, *Universitat Autònoma de Barcelona, Spain*
Thesis: Dynamical Superfluid-Insulator Transition of Bose-Einstein condensates in optical lattices.
Supervisor: Prof. Verònica Ahufinger.

Publications

- [1] F. Balacheff and T. Gil Moreno de Mora, *Isosystolic inequalities on two-dimensional Finsler tori*. Accepted for publication in the EMS Surveys of Mathematical Sciences (2024).

Invited Talks

Talks in conferences

- Nov 2023 Forum des jeunes mathématicien-nes, *Université Libre de Bruxelles, Belgium*
- May 2023 Journées des Doctorants du LAMA, *Université Gustave Eiffel and Université Paris-Est Créteil, France*
- March 2020 Bernardo Cascales Functional Analysis School, *Universidad de La Laguna, Spain*

Seminar talks

- April 2024 Colloque de Géométrie, *Université Paris-Est Créteil, France*
- April 2024 Séminaire des doctorants du LAMA, *Université Paris-Est Créteil, France*
- June 2023 Seminari Informal de Matemàtiques de Barcelona, *Universitat de Barcelona, Spain*
- March 2023 Seminari de Geometria, *Universitat Autònoma de Barcelona, Spain*

Organization of Scientific Activities

- May 2024 Journées des Jeunes Chercheurs-ses du LAMA, *Institut Henri Poincaré, France* (22-24 May 2024)
- 2022 – 2024 Séminaire des doctorants, *Laboratoire d'Analyse et Mathématiques Appliquées, Université Paris-Est Créteil, France*

Teaching

- Jan 23–Apr 23 Analyse Réelle, *L1 Mathématiques, Université Paris-Est Créteil* (36h lectures)
Sep 22–Dec 22 Calculus 1, *L1 Chimie, Université Paris-Est Créteil* (30h lectures)

Undergraduate Research Experience

- Sep 20 –Jul 21 **Research Assistant, Mathematics department UAB, Barcelona, Spain**
Supervisor: Prof. Florent Balacheff
Research project in systolic geometry, with further development of my BSc thesis.
- Jul 20 –Sep 20 **ICMAT Introduction to Research Program, Madrid, Spain**
Supervisor: Prof. Francisco Presas
Project on contact geometry and Legendrian submanifolds, and their application to the space of light geodesics of a Lorentz manifold.
- July 2019 **IFISC Summer Undergraduate Research Internship, Palma de Mallorca, Spain**
Supervisor: Prof. David Sánchez
Project on the analysis of language variation in the United Kingdom using Twitter data and Big Data techniques.
- Jul 18 – Oct 18 **ICFO Summer Fellows Program, Barcelona, Spain**
Supervisor: Prof. Leticia Tarruell – Ultracold Quantum Gases group
Project on the development of an active stabilization system in order to stabilize the magnetic field fluctuations in the experimental set-up of the group.
- July 2016 **ICFO Introductory internship, Barcelona, Spain**
Supervisor: Dr. Miguel Ángel García
Programming based experience on the study of random walks on different geometrical settings.

Awards and Scholarships

- 2021 – 2022 **PGSM Master Scholarship**, granted by the *Fondation Sciences Mathématiques de Paris*.
2020 – 2021 **Beca de Colaboración grant BDNS 512590** by the *Spanish MEFP*
2015 – 2021 Academic Merit State Scholarship, funded 33% of my undergraduate degrees.
2015 Extraordinary University Entrance Examination Award, awarded by the *Generalitat de Catalunya*.
2015 University Entrance Scholarship, awarded by the *Fundació Catalunya La Pedrera*.

Languages

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|-----------------|----------------------------------|----------------|--------------------|
| English | C2 Level - Cambridge Certificate | French | B2 Level - DELF B2 |
| Spanish | Native | Catalan | Native |
| Japanese | B1 Level - JLPT N4 | | |