

Curriculum Vitae

Education

- 2022–present **Ph.D. in Mathematics**, *IMB, Université de Bordeaux*.
- 2020–2022 **Master in Mathematics**, *Indiana University Bloomington*.
- 2017–2020 **Master in Mathematics**, *Nankai University*.
- 2013–2017 **Bachelor in Mathematics and Applied Mathematics**, *Beijing Institute of Technology*.

Visiting

- Jun, 2023, Short Student Visiting, YMSC, Tsinghua University (3 weeks)
- Apr, 2022, Student Internship, LaBRI, Université de Bordeaux (6 months)
- Feb, 2019, Student Exchange Program, National Taiwan University (5 months)

Publications and Preprints

- Uniform Length Estimates for Trajectories on Flat Cone Surfaces**, 2024, eprint [arXiv:2409.14188](https://arxiv.org/abs/2409.14188).
- Bounds on saddle connections for flat spheres**, with *Guillaume Tahar*, 2023, eprint [arXiv:2308.08940](https://arxiv.org/abs/2308.08940).

In Preparation

- Computing the Multiscale Boundary I. Real Linear Subvarieties of Abelian and Quadratic Differentials**, with *Vincent Delecroix* and *Bradley Zykoski*.
- Siegel-Veech Measures of Convex Flat Cone Spheres**.

Programming Project

I have a strong interest in **SageMath**, an open-source mathematics software system built on Python. Currently, we are collaboratively working on the joint paper *Computing the Multiscale Boundary I. Real Linear Subvarieties of Abelian and Quadratic Differentials* and contributing new features to the package **veerer**. This work involves constructing veering triangulations with boundaries and Strebel graphs, and implementing conversions between veering triangulations and Strebel graphs.

Talks

- Nov 08, 2024 **Séminaire de Systèmes Dynamiques**, *Institut de mathématiques de Toulouse*, Toulouse, France.

- Oct 04, 2024 **Geometry Topology Grad and Postdoc Seminar**, *University of Toronto*, online.
- Sep 10, 2024 **Riemann Surfaces: Random, Flat, and Hyperbolic Geometry**, *MFO*, Oberwolfach, Germany.
- Oct 17, 2023 **Cours de Géométrie Algébrique et Géométrie Complexe de la fédération MARGAUX**, *Le Laboratoire de Mathématiques et Applications, Université de Poitiers Poitiers*, Poitiers, France.
- Jun 08, 2023 **Student Seminar**, *YMSC, Tsinghua University*, Beijing, China.

Organization

- Mar, 2024 Co-organization of the School on flat surfaces and interactions, Le Teich
- Sep, 2023 Co-organization of the Reading group on mapping class groups, Bordeaux

Conference Participation

- Nov, 2024 Riemann Surfaces: Random, Flat, and Hyperbolic Geometry, MFO, Oberwolfach
- Jun, 2024 New Frontiers in Parabolic Dynamics and Renormalization, Department of Mathematics, University of Bologna, Bologna
- Jun, 2024 Rencontre GALS, Institut Camille Jordan, Lyon
- Mar, 2024 School on flat surfaces and interactions, Le Teich
- Jan, 2024 Sage Days 125: combinatorics, number theory, dynamical systems and geometry, Le Teich
- Jan, 2024 Research School - Hodge Theory and o-minimality, CIRM, Marseille
- Dec, 2023 Renormalization and Visualization in Geometry, Dynamics and Number Theory, CIRM, Marseille
- Nov, 2023 The floor to the junior researcher of Plato's network Institut Fourier, Grenoble
- Oct, 2023 Cours de Géométrie Algébrique et Géométrie Complexe de la fédération MARGAUX, Université de Poitiers, Poitiers
- Oct, 2023 Probability and Geometry in, on and of non-Euclidian spaces, CIRM, Marseille
- Jul, 2023 Renormalization and Visualization for packing, billiard and surfaces, CIRM, Marseille
- Feb, 2023 Sage Days 117: combinatorics, number theory, dynamical systems and geometry, Le Teich
- Sep, 2022 Combinatorics, Dynamics and Geometry on Moduli Spaces, CIRM, Marseille
- May, 2022 Structures on Surfaces, CIRM, Marseille
- Apr, 2022 Mini-rencontre ANR MoDiff, LaBRI, Université de Bordeaux, Bordeaux
- Jun, 2021 CMI-HIMR Dynamics and Geometry Online Summer School, University of Bristol

Scholarship

- Apr, 2021 Hazel King Thompson Scholarship, Indiana University Bloomington
- Apr, 2020 Outstanding Graduate, Nankai University
- Sep, 2018 China National Scholarship, Nankai University

Languages

Chinese native
English fluent
French basic