

I am interested in interval exchange transformations with or without flips, in connection with the Teichmüller flow in the moduli space of translation and half-translation surfaces. These objects are particularly relevant to study tiling billiards and are linked to Novikov's conjecture.

## EDUCATION

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<b>Aix-Marseille Université</b>	Marseille
Math PhD, supervised by Pascal Hubert and Olga Paris-Romaskevich	2021–
– PhD students' representative on the doctoral school board	
– Co-organizer of the PhD seminar on campus Saint-Charles	2022-2023
– Co-organizer of the PhD day 2021 (creation), 2022 and 2023	
– Three papers in preparation	
<b>Université Grenoble Alpes</b>	Grenoble
Master <i>Groups and geometries</i> - with Honors	2020–2021
– Internship (5 months) supervised by Erwan Lanneau, Institut Fourier, Grenoble	
– One paper accepted by <i>Geometriae dedicata : Relations with a fixed interval exchange transformation</i>	
<b>École Normale Supérieure de Paris-Saclay</b>	Cachan
Agrégation de mathématiques, option D (computer science) - awarded	2019–2020
<b>École Normale Supérieure de Rennes</b>	Rennes
Math département - double degree in computer science - with Honors	2017–2019
– Internship (2 months) supervised by Tobias Hartnick, Justus-Liebig-Universität, Gießen, Allemagne	2019
– Optional teaching internship (2 weeks) at High School Évariste Galois in Sartrouville, France	Mai 2019
– Internship (6 weeks) supervised by Laurent Bougrain and Radu Ranta at INRIA and CRAN, Nancy	2018
– <i>Polynoms iterations and Julia's set</i> , work in group with Clémentine Laurens, supervised by Franck Loray	2018
<b>Classes Préparatoires aux Grandes Écoles</b>	Lycée Saint-Louis, Paris
MPSI - MP* - MP*	2014–2017

## TRAINING COURSES

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- **Doctoral school's courses**, of 24 hours each  
*Overview of Paul Erdős' math - Differential geometry and Gauss-Bonnet's theorem*
- **Doctoral school's training courses**  
*Developing students' reflexivity (4h) - Teaching in flipped classrooms (8h) - Assessing your students' learning (8h) - The effects of gender stereotypes in academic and professional environments (1h) - Science didactics (4h) - Using cognitive science to facilitate student learning (12h)*
- **MOOC** : *Research ethics (10h), Integrity in scientific professions (10h)*

## TEACHING

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<b>Teaching contract</b> at Aix-Marseille University	2021-
<i>Preparation to Agrégation, option C (Algebra and Formal Calculation) - Modelling on SAGE</i>	(30h) 2021-2024
<i>3rd year - Math in English</i>	(16h) 2023-2024
<i>3rd year of Computer science - Practical courses and training on Databases</i>	(18h) 2023-2024
<i>2nd year of Math, Physics, Chemistry and Computer science (MPCI) - Tutoring on Databases</i>	(16h) 2022-2023
<i>1st year of Computer science - Practical training How computers work</i>	(18h) 2022-2023
<i>2nd year MPCI - Tutoring on Analysis and Algebra</i>	(34h) 2021-2022

## CONFERENCES AND SCHOOLS

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- **Surfaces, MANifolds and Related Topics**, Luxembourg - *Speaker* March 2024
- **School on flat surfaces and interactions**, Le Teich - *Speaker* March 2024
- **Sagedays**, computer programming workshop, Le Teich January 2024
- **Weinachtsworkshop**, Karlsruhe - *Speaker* December 2023
- **Renormalization and Visualization in Geometry, Dynamics and Number Theory**, at CIRM December 2023
- **Maths and art: creating together** at CIRM November 2023
- **Young researchers in geometry and dynamics**, GDR Platon - *Speaker* November 2023
- **Workshop Renormalization, Computation and Vizualization** at CIRM September 2023
- **Renormalization and Visualization for packing, Billiard and Surfaces** at CIRM - *Poster* July 2023
- **Geometry and dynamic Spring School** of GDR Platon, Lille - *Speaker* March 2023
- **Aussois' Winter School** - *Speaker* December 2022
- **Young researchers in geometry and dynamics**, GDR Platon - *5 min lighening talk* November 2022
- **Big Mapping Class Group and Diffeomorphism Groups** at CIRM October 2022
- **Combinatorics, Dynamics and Geometry on Moduli Spaces** at CIRM - *Poster* September 2022
- **Winter school on billiards**, Autrans - *Speaker* January 2022
- **Aussois' Winter School** December 2021
- **Young researchers in geometry and dynamics**, GDR Platon - *Poster* November 2021

I regularly give talks at doctoral seminars (Marseille, Grenoble, Rennes, Dijon, Montpellier), and have presented my work at the **Rauzy seminar in Marseille** on February 3, 2023, at the **Grenoble topology seminar** on April 7, 2023 and at the **Anna Wienhard's group's seminar** in Leipzig on December 19. I will talk at the **Rennes dynamic seminar** in April 2024 and at the **Ergodic theory and dynamical systems seminar** in Zurich in May 2024.

## OUTREACH

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- **Co-organizer of events**
  - II Day, talks and pie contest in Marseille* March 2023
  - French Young Mathematicians Tournament (TFJM2), in Rennes* April 2018
  - Meeting of young mathematician girl (RJM), first edition in Rennes* 2017
- **Tageting girls in particular**
  - Week Les Cigales at CIRM: Supervision of a group (two sessions)* April and November 2022
  - Week Les Cigales at CIRM: Talk How does a kaleidoscope work ?* April 2022
  - Days Girls and math: Speed-dating* Mai 2020 and April 2022

- **Geometrists' gaze**, a project combining art and mathematics in schools  
*Workshop on the theme of light and colors (2h) in a middle school's class* 2023  
*Talk and workshop How many types of frieze patterns exist? for public from 10 to 16 years old* 2022 and 2023  
*Workshops on the theme of kaleidoscope (2h) in classes of middle and high schools* 2022 and 2023
- **Other interventions for middle and high school students**  
*Presentation of my PhD work to a high school class* Decembre 2022  
*Workshops on the theme of mirrors for classes of primary and middle schools* Science festival 2022 and 2023  
*Day for high school students at CIRM: running a stand* 2021 and 2022
- **For the general public**  
*WECAM at MMI, Lyon: Creation of outreach activities on the theme of cooking* January 2023  
*Science festival in Marseille: Running the CIRM's stand* October 2022 and 2023  
*Mathematical culture and games fair, in Paris: Running the stand Imaginary* June 2022
- **Member of the French Mathematical Society:** links with the community and its outreach activities

## VOLUNTEERING

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- **In charge of the Improvisation Club** of ENS Rennes 2018-2019
- **Excellence pathway tutor** at La Biquenais secondary school in Rennes 2018-2019
- **Woofing**(volunteer work on an organic farm) in Ribnitz-Damgarten, Germany July 2015

## LANGUAGES

- **Languages:** French (native) - English (B2) - German (B1/B2)
- **Programing languages:** Python, Sage, C, CamL, LaTeX

## HOBBIES

Music : violin, accordeon, choir singing  
 Aikido, Dance, Hiking