

# Florent Ygouf

Postdoctoral Fellow in Mathematics  
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## RESEARCH INTEREST

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Dynamics and geometry of moduli spaces of surfaces, foliation dynamics, homogeneous dynamics and applications.

## EDUCATION

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### University Grenoble Alpes, France.

PhD in Mathematics

Title of thesis: "Isoperiodic Dynamics in Moduli Spaces of Abelian Differentials", Advisor: Prof. Erwan Lanneau.

Sept. 2016 - June 2019

### École Normale Supérieure de Lyon, France.

B.S and M.S in Mathematics

Sept. 2013 - June 2016

## ACADEMIC APPOINTMENT

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### Tel Aviv University, Israel.

Postdoctoral researcher

Sept. 2022 - Present

### University of Bologna, Italy.

Postdoctoral researcher

Sept. 2021 - Aug. 2022

### Tel Aviv University, Israel.

Postdoctoral researcher

Sept. 2019 - Aug. 2021

## PAPERS

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- A criterion for density of isoperiodic leaves in rank one invariant orbifold, 03/2023 *J. Topol*, 16(1), 1-19
- Nonarithmetic affine invariant orbifolds in  $\mathcal{H}^{odd}(2,2)$  and  $\mathcal{H}(3,1)$ , *Geom. Dedicata* (to appear)
- Isoperiodic dynamics in rank one affine invariant orbifolds, 12/2022, *Int. Math. Res. Not.* 2022(24), 19854–19861
- Horospherical dynamics in invariant subvarieties, Joint with J. Smillie, P. Smillie and B. Weiss, *preprint*.
- Horocycle dynamics in rank one invariant subvarieties I: weak measure classification and equidistribution, Joint with J. Chaika and B. Weiss, *arXiv:2301.12419*
- Stationary measures and orbit closures for linear actions on the torus after Benoist & Quint, *expository notes*.

## INVITED TALKS

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- Grenoble, France, IF January 2017
- Marseille, France, I2M, December 2018
- Aussois, France, Winter school of dynamics, December 2018
- Toulouse, France, IMT, February 2019
- Oaxaca, Mexico, Casa Matemática, workshop on Teichmüller dynamics, May 2019
- Moscow, Russia, Skoltech, October 2019
- Bordeaux, France, IMB, December 2019
- Rio de Janeiro, Brazil, IMPA, February 2020
- Niteroi, Brazil, UFF, February 2020
- Online conference, Conference Platon, December 2020
- Bologna, Italy, October 2021
- Tel Aviv, Israel, February 2022
- San Diego, California, USA, October 2022
- Bordeaux, France, IMB, Mars 2023
- Rennes, France, IRMAR, Mars 2023
- Grenoble, France, Institut Fourier, Mars 2023

- Marseille, France, Séminaire Rauzy, Mars 2023
- Nice, France, Lab J.A Dieudonné, Mars 2023
- Paris, France, IHP, Avril 2023

## SCIENTIFIC VISITS

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- SkolTech, Moscow, Russia, Fall 2020 (1 week)
- IMPA, Rio de Janeiro, Brazil, Winter 2020 (3 weeks)
- HIM, Bonn, Germany, Spring 2020 (3 months for the Thematic trimester Dynamics: Topology and Numbers)

## COMMUNITY SERVICE

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- Organizer of a year-long learning seminar on the work of M. Ratner on unipotent flows at the University of Bologna in 2021/22.
- Co-organizer of the international conference “Geometry & Dynamics Of Moduli Spaces” at the University of Bologna in June 2022. The conference hosted the ICM joint lecture “Horocycle Flow on the moduli space of translation surfaces”.
- Reviewer for Illinois Journal of Mathematics, Mathematische Annalen and International Mathematics Research Notices

## TEACHING EXPERIENCE

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**University Grenoble Alpes, France.**  
Course instructor

2016-2019

**Lycée du Parc, Lyon, France.**

Preparation of students to the oral entrance exam to French “Grandes Écoles”.

2013-2016

## SKILLS

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**Languages:** French (Native), English (Fluent), Italian (intermediate), Hebrew (beginner)

**Coding:** Latex, HTML, CSS, Sage, Python