

Florent Ygouf

📍 Rennes, France

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Research Interest

Dynamical systems, ergodic theory, dynamics in moduli spaces, homogeneous dynamics, foliation dynamics, lie group actions on geometric spaces.

Experience

Université de Rennes, Maitre de conférences Sept 2023 – present
Tel Aviv University & University of Bologna, Postdoc Sept 2019 – Aug 2023

Education

PhD **Université Grenoble Alpes**, Mathematics Sept 2016 – Sept 2019
 • Advisor: Erwan Lanneau
 • Thesis title: Dynamique isopériodique dans l'espace de modules des surfaces de translation

MS **ENS de Lyon**, Mathematics Sept 2014 – Aug 2016

BS **ENS de Lyon**, Mathematics Sept 2013 – Aug 2014

Publications

Isoperiodic Dynamics in Rank 1 Affine Invariant Orbifolds 2021
 F.Ygouf
<https://doi.org/10.1093/imrn/rnab153> (International Mathematics Research Notices)

A criterion for density of the isoperiodic leaves in rank one affine invariant orbifolds 2022
 F.Ygouf
<https://doi.org/10.1112/topo.12279> (Journal of topology)

Non arithmetic affine invariant suborbifolds in $H(2,2)$ and $H(3,1)$ 2023
 F.Ygouf
<https://doi.org/10.1007/s10711-023-00792-0> (Geometriae Dedicata)

Horocycle dynamics in rank one invariant subvarieties I: weak measure classification and equidistribution 2024
 J.Chaika, B.Weiss, F.Ygouf
<https://doi.org/10.1007/s10711-023-00792-0> (Israel Journal of Mathematics)

Horospherical dynamics in invariant subvarieties 2024
 P.Smillie, J.Smillie, B.Weiss, F.Ygouf
<https://doi.org/10.1016/j.aim.2024.109783> (Advances in Mathematics)

Scientific Visits

- SkolTech, Moscow, Russia, Fall 2020 (1 week)
- IMPA, Rio de Janeiro, Brazil, Winter 2020 (3 weeks)
- HIM, Bonn, Germany, Spring 2020 (3 months)
- Tel Aviv university, Israel, spring 2022 (1 month)

Community Service

seminar organizer

- I organize the weekly [ergodic theory seminar](#) of the IRMAR since Sept. 2023.
- I (co)-organized 4 semester long seminars on recent trends in dynamical systems.

organization of conferences

- 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 peer-reviewed journals

- Illinois Journal of Mathematics, Mathematische Annalen and International Mathematics Research Notices

Invited Talks

Research seminars

- Grenoble, France, Institut Fourier, 2017
- Marseille, France, I2M, 2018
- Moscou, Russie, Skoltech, 2019
- Bordeaux, France, IMB, 2019
- Rio de Janeiro, Brésil, IMPA, 2020
- Ann Arbor, USA, UMICH Online seminar, 2021
- Bologne, Italie, UNIBO, 2021
- Tel Aviv, Israël, TAU, 2022
- San Diego, USA, Online seminar, 2022
- Bordeaux, France, IMB, 2023
- Rennes, France, IRMAR, 2023
- Grenoble, France, Institut Fourier, 2023
- Nice, France, UNICE, 2023
- Marseille, France, Séminaire Rauzy, 2023
- Orsay, France, LMO, 2023
- Paris, France, IHP, 2023

International conferences

- Aussois, France, École d’hiver de dynamique, 2018
- Toulouse, France, Mini-conférence sur les surfaces plates, 2019
- Oaxaca, Mexique, Workshop on Teichmüller dynamics, 2019
- Conférence Platon en ligne, Paroles aux jeunes géomètres dynamiques, 2020
- Niteroi, Brésil, Workshop in homogeneous dynamics, 2020
- Paris, France, IHP, Group actions with Hyperbolicity and Measure Rigidity, 2024

Skills

Programming: LaTeX, Sage, basics of Web development

Languages: French (native), English (fluent), Italian (intermediate), Hebrew (intermediate)