Timothée Bénard

Curriculum Vitae

Email address : timothee.benard@gmail.com

Publications

Radon stationary measures for a random walk on $\mathbb{T}^d \times \mathbb{R}$.
Submitted in December 2019 (arXiv:2006.05742v1), 74 pages

Drift of random walks on abelian covers of finite volume homogeneous spaces.
Submitted in December 2020 (arXiv:2010.12830v2), 27 pages

Transience of a symmetric random walk in infinite measure.
Submitted in January 2021 (hal-02845403v3), 18 pages

Some asymptotic properties of random walks on homogeneous spaces.
Submitted in April 2021 (arXiv:2104.13181), 30 pages

Invited talks

Arbeitsgemeinschaft 1841: Rigidity of Stationary Measure.
Oberwolfach, October 2018

Ergodic Theory and Dynamical Systems Seminar.
ETH & UZH in Zurich, October 2020

GDR Platon "Paroles aux jeunes chercheurs en systèmes dynamiques et géométries".
Grenobles, December 2020

Seminar "Raconte-moi".
ENS Paris, April 2021

Group actions and Dynamics seminar.
Yale, November 2021

Conferences attended

2017-2018   *GDR Platon "Paroles aux jeunes chercheurs en systèmes dynamiques et géométries" (Rennes), Young Geometric and Group Theory VII (Les Diablerets).*

2018-2019   *Arbeitsgemeinschaft 1841: Rigidity of Stationary Measure (Oberwolfach), Dynamique d'action de groupes (Cetraro).*

2019-2020   *GDR Platon "Paroles aux jeunes chercheurs en systèmes dynamiques et géométries" (Nancy), Winter School on Dynamics: Topology and Numbers (HIM Bonn), Random and Arithmetic Structures in Topology - virtual semester (MSRI Berkley).*

2020-2021   *GDR Platon "Paroles aux jeunes chercheurs en systèmes dynamiques et géométries" (Grenoble), CMI-HIMR Dynamics and Geometry Online Summer School (Bristol).*

▬▬ Education

2012–2014   *Classes préparatoires*, Lycée Louis-Le-Grand in Paris.

2014   *Admitted at ENS Paris*.

2014–2015   *Bachelor's degree in Mathematics*, ENS Paris / Sorbonne Université ("Paris 6").

2015–2016   *Master 1 in Mathematics*, ENS Paris / Sorbonne Université .

2016–2017   *Master 2 in Pure Mathematics*, Sorbonne Université .

2017-2018   *Research internship in homogeneous dynamics*, Université Paris Saclay ("Paris 11").
directed by Yves Benoist

2018-2020   *Ph.D. on random walks on homogeneous spaces of infinite volume*, Université Paris Saclay.
directed by Yves Benoist, defended in February 2020

2020-202..   *Postdoc at the Department of Pure Mathematics and Mathematical Statistics*, University of Cambridge.
supervised by Péter Varju and Emmanuel Breuillard

▬▬ Academic responsabilities

2017-2018   *Oral examinations in classe préparatoire*.
Lycée Saint-Louis

2018-2020   *Teaching assistant in Differential Geometry*.
ENS Paris

2020-2021   *Teaching assistant in Algebraic Topology*.
ENS Paris

I have also been the organizer of a study group in Dynamics and Topology at Université Paris Saclay addressing PhD-students and post-docs (2019-2021). I supervised as well a lecture group on Lie Algebra Theory and an undergraduate's thesis on the Hausdorff dimension of subrings of $\mathbb{Q}_p$ at ENS Paris.

▬▬ Others

Languages : french, english.