

Laboratoire de mathématiques Jean Leray
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born December 13, 1995

Yann Chaubet

Positions

- 2023– **Assistant Professor**, Nantes Université.
2022–2023 **Herchel Smith Research Fellow**, University of Cambridge.

Education

- 2019–2022 **P.h.D in fundamental mathematics**, under the supervision of Colin Guillarmou, Université Paris-Saclay.
2014–2019 **Student at the École normale supérieure**, Paris.

Publications and Preprints

Nonlinear chaotic Vlasov equations, with Daniel Han-Kwan and Gabriel Rivière.
preprint arXiv :2407.04426

Combinatorial zeta functions for triangles, with Léo Bénard, Nguyen Viet Dang and Thomas Schick.
preprint arXiv :2303.11226

Geodesic Lévy flights and expected stopping time for random searches, with Yannick Guedes Bonthonneau, Thibault Lefeuvre and Leo Tzou.
To appear in *Probability theory and related fields*

Dynamical zeta functions for billiards, with Vesselin Petkov.
To appear in *Annales de l'Institut Fourier*.

Resolvent of vector fields and Lefschetz numbers, with Yannick Guedes Bonthonneau.
To appear in *Pure and Applied Analysis*.

Dynamical torsion for contact Anosov flows, with Nguyen Viet Dang.
To appear in *Analysis & PDE*.

Closed geodesics with prescribed intersection numbers.
Geometry & Topology, 28 :701–758, 2024

Closed billiard trajectories with prescribed bounces.
Annales Henri Poincaré, Vol. 24, No. 3, pp. 1051–1075, 2022

Poincaré series for surfaces with boundary.
Nonlinearity, 35(12) :5993, 2022

Teaching

- 2022–2023 **Exercice sessions**, *Differential geometry*, Cambridge University.
24h
2019–2022 **Teaching assistant**, *Course of Dynamical Systems*, École Normale Supérieure.
3 x 64h

Invited talks

International conferences

- Sep 2024 **Rigidity phenomena in dynamics and spectral theory**, Zurich.
- Nov 2023 **Workshop : Hyperbolic dynamics and semiclassical analysis**, Jussieu.
- Jun 2023 **Analytic techniques in Dynamics and Geometry**, Les Diablerets.
- Mar 2023 **Rencontre aléatoire, dynamique et spectre**, Grenoble.
- Mar 2023 **École de printemps géométrie et dynamique**, Lille.
- Mar 2023 **Paris-London Analysis seminar**, London.
- Nov 2022 **Geometrical Inverse Problems**, Linz.
- Mar 2022 **Rigidity problems in geometry**, Roscoff.
- Feb 2022 **Spectra and Dynamics on (Locally) Symmetric Spaces**, Paderborn.
- Dec 2021 **Spectral Geometry in the clouds**, Online.
- Nov 2021 **ANR "Aléatoire, dynamique et spectre" meeting**, Nantes.
- Sep 2021 **Hyperbolic dynamical systems and resonances**, Porquerolles.
- Apr 2021 **Resonances in dynamics and semiclassical analysis**, Lausanne.
- Apr 2020 **Spectral problems, hyperbolic dynamical systems and quantum chaos**, Online.
- Oct 2018 **NxSE Tech Forum**, Paris.

Seminars

- Fev 2024 **Séminaire Quimpériodique**, Quimper.
- Jan 2024 **Séminaire Topologie, Géométrie et Algèbre**, Nantes.
- Jun 2023 **Ergodic Theory and Dynamical Systems Seminar**, Bristol.
- Mar 2023 **Séminaire Géométrie et Analyse Globale**, Nantes.
- Fev 2023 **London Analysis and Probability seminar**, London.
- Fev 2024 **Ergodic Theory and Dynamical Systems Seminar**, Warwick.
- Feb 2023 **Workgroup on rigidity problems**, Cambridge University.
- Jan 2023 **Differential geometry and topology seminar**, Cambridge University.
- Dec 2022 **Séminaire Géométrie et Topologie**, Institut de Mathématiques de Marseille.
- Nov 2022 **Séminaire Géométrie et Topologie**, Institut de Mathématiques de Jussieu.
- May 2022 **Séminaire Gaston Darboux**, Institut Montpellierain Alexander Grothendieck.
- Apr 2022 **Oberseminar Dynamische Systeme**, Ruhr-Universität, Bochum.
- Apr 2022 **Seminari di Sistemi Dinamici**, Centro di Ricerca Matematica Ennio De Giorgi, Pisa.
- Feb 2022 **Séminaire de Physique Mathématique**, Institut de Mathématiques de Bordeaux.
- Jun 2021 **Séminaire de géométrie**, Institut de Mathématiques d'Orsay.
- Apr 2021 **Geometrische Analysis und Zahlentheorie**, Universität Paderborn.
- Mar 2021 **Séminaire de vulgarisation des doctorants**, Institut de mathématiques d'Orsay.
- Nov 2020 **Séminaire d'analyse des doctorants**, Institut de mathématiques d'Orsay.
- Fev 2020 **Séminaire d'Analyse Harmonique**, Institut mathématique d'Orsay.
- Jan 2020 **Séminaire Teich**, Institut mathématique de Marseille.
- Fev 2019 **Working group : b-calculus**, Institut mathématique d'Orsay.