

# Yann Chaubet

✉ [yann.chaubet \[at\] univ-nantes.fr](mailto:yann.chaubet[at]univ-nantes.fr)  
📄 <https://yannchaubet.github.io/>  
born December 13, 1995

## 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**, Jusseu.
- 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.