

# 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

**Combinatorial zeta functions for triangles**, with Léo Bénard, Nguyen Viet Dang and Thomas Schick.

preprint arXiv :2303.11226

**Dynamical zeta functions for billiards**, with Yannick Guedes Bonthonneau, Thibault Lefeuvre and Leo Tzou.

preprint arXiv :2211.13973

**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

## 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.