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born December 13, 1995

Yann Chaubet

Research Experience

Oct 2022– **Herchel Smith Research Fellow**, University of Cambridge.

2019–2022 **PhD in Mathematics**, *under the supervision of Colin Guillarmou*, Université Paris-Saclay.

Publications and Preprints

Preprints **Dynamical zeta functions for billiards**, with Vesselin Petkov, arXiv preprint arXiv :2201.00683. 2022. Submitted.

Dynamical torsion for contact Anosov flows, with Nguyen Viet Dang, arXiv :1911.09931. In revision at Analysis & PDE.

2022 **Closed billiard trajectories with prescribed bounces**, *Annales Henri Poincaré*, pages 1–25. Springer, 2022.

Poincaré series for surfaces with boundary, *to appear in Nonlinearity*.

Closed geodesics with prescribed intersection numbers, *to appear in Geometry & Topology*.

Education

2019–2022 **PhD in Mathematics**, *under the supervision of Colin Guillarmou*, Université Paris-Saclay.

2014–2019 **Student (élève) of the Ecole Normale Supérieure (ENS)**, Paris.

2017–2018 **Master 2**, *Fundamental Mathematics*, Sorbonne Université, *highest honors*.

Master's thesis, *The Ruelle zeta function for Anosov flows*, under the supervision of Colin Guillarmou.

2015–2016 **Master 1**, *Mathematics*, ENS Paris, *highest honors*.

2014–2015 **Bachelor's degree**, *Mathematics*, ENS Paris, *highest honors*.

Bachelor's thesis, *The graph case of the positive mass theorem*, under the supervision of Cecile Huneau.

2012–2014 **Classe préparatoire MPSI and MP***, *Lycée Joffre*, Montpellier.

2012 **Baccalauréat**, *Lycée Georges Pompidou*, Castelnau-le-Lez, *highest honors*.

Teaching

2019–2022 **Teaching assistant**, *Course of Dynamical Systems*, École Normale Supérieure.

2018-2019 **Oral examinations (colles)**, *PC**, Lycée Saint-Louis.

Experiences

2017   **Research and development in analysis of mobility**, Paris.
Five months work as a machine learning ingeneer for the start-up Geo4Cast (ex it4pme).

2016   **Visitor student**, *IMPA*, Rio de Janeiro.
Dissertation : A C^∞-closing lemma and the Lefschetz formula, supervised by Enrique Pujals.

Invited talks

International conferences

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   **Ruelle-Pollicott Resonances in dynamics and semiclassical analysis**, Lausanne (online).

Apr 2020   **Spectral problems, hyperbolic dynamical systems and quantum chaos**, Online.

Oct 2018   **NxSE Tech Forum**, Paris.

Seminars

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.

Interests

Languages   French (mother tongue), English (fluent), Portuguese, Spanish (basics).

Programming skills   Python, Matlab

Sports   Freestyle skiing (winner of a Da Camp contest in 2011), surfing, football, gymnastics.

Hobbies   Piano, cinema, literature, chess.