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born December 13, 1995

Yann Chaubet

Research Experience

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

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

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

2018-2019 **Interrogations orales (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.

(Submitted) Preprints

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

2021	**Closed billiard trajectories with prescribed bounces**, arXiv :2108.11340.
2021	**Poincaré series for surfaces with boundary**, arXiv :2106.07604.
	In revision at *Nonlinearity*.
2021	**Closed geodesics with prescribed intersection numbers**, arXiv :2103.16301.
2019	**Dynamical torsion for contact Anosov flows**, with Nguyen Viet Dang, arXiv :1911.09931.

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	**Seminari di Sistemi Dinamici**, Centro di Ricerca Matematica Ennio De Giorgi, Pisa.
Apr 2022	**Oberseminar Dynamische Systeme**, Ruhr-Universität, Bochum.
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.