

CURRICULUM VITAE

Côme DATTIN

Date of birth : November 27th, 1994

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Education

2021–	PostDoc at the University of Uppsala
2020–2021	Lecturer of mathematics at the University of Nantes.
2017–2020	Doctorat of mathematics at the University of Nantes, under the direction of Vincent Colin.
2015–2016	Master of pure mathématiques.
2014–2015	M1 of mathematics.
2013–2014	License of mathematics.
2013	Admission at the École Normale Supérieure of Paris.
2011–2013	Classes préparatoires MPSI then MP* at the lycée Saint-Louis, Paris.
2011	Baccalauréat S (speciality mathematics), mention très bien.

Talks and seminars

I assisted to several symplectic and contact geometry conferences :

Mars 2016	Mini-Workshop on Symplectic Geometry, Utrecht.
June 2016	Developments in Contact and Symplectic Topology, LMS-CMI research school, Glasgow.
July 2016	Summer school at the IMJ-PRG : Symplectic topology, sheaves and mirror symmetry, Paris.
January 2017	CAST 2017, Nantes.
February 2017	Groupe de travail sur la simplification des caustiques, Grenoble.
August 2017	Summer school on Legendrian contact homology and a variety of augmentations, Uppsala.
November 2017	A conference in honor of Jean-Claude Sikorav, Lyon.
January 2018	CAST 2018, Uppsala.
August 2018	Workshop on Symplectic Field Theory IX : Polyfolds for SFT, Ausburg.
Mars 2019	CAST 2019, Berlin.
Mars 2019	Categorical Symplectic Topology, Cambridge.
June 2019	Homological algebra, microlocal analysis and symplectic geometry, Montreal.
February 2020	CAST 2020, Uppsala
August 2021	GDR Tresses meeting : Geometric and quantum topology, Dijon
October 2021	Workshop on Floer theory and Lagrangian cobordisms, Enköping
December 2021	Winter braids XI, Dijon
June 2022	Frontiers of Quantitative Symplectic and Contact Geometry, Stockholm
July 2022	Convexity in contact and symplectic topology, Paris
August 2022	SYNC workshop for early career researchers in Symplectic and Contact Topology, UC Davis

I gave a talk at the following occasions :

- 2017, Summer school on Legendrian contact homology and a variety of augmentations, Uppsala : *Augmentations, representations and linearisation of the Legendrian contact algebra*, explaining work of G Dimitroglou Rizell R Golovko on the minimal number of Reeb cords.
- 2018-2020, at the regular PhD student's seminar of the University, I talked about : *Existence of open book decompositions ; Groupoids and fundamental group ; Contact homology and open book decompositions.*
- 2019, at the Rencontres doctorales Lebesgue, Nantes : *Morse and contact homology.*
- 2020, at the Séminaire TGA, Nantes : *Sutured Legendrian homologies and the conormal of braids*
- 2021, at the Symplectic zoominar and the GDR Tresses meeting : *Wrapped sutured Legendrian homology and the conormal of braids*
- 2021, at the symplectic seminar in Uppsala : *Sutured Legendrians and the conormal of braids*
- 2021, at the geometry seminar in Stockholm : *Sutured Legendrians. cord algebra and the conormal of braids*

Organisation of conferences

I took part in the organisation of the Rencontres doctorales Lebesgue 2018 at Rennes, and I am now partly responsible for the symplectic seminar at Uppsala

Publications

PhD thesis : *Sutured Legendrian homologies and applications to the conormal construction* (in french, with an introduction in english).

The two following papers present and slightly extend the results of my PhD :

- *Sutured contact homology, conormal stops and hyperbolic knots*
- *Wrapped sutured Legendrian homology and unit conormal of local 2-braids.*

In preparation :

2-sutured contact manifold, sutured Legendrian stops and the conormal of braids

Teaching experience

In the years 2014-2015, I was interrogator of mathematics in classes préparatoires at the Lycée Louis-Le-Grand, giving live exercises to three students at a time.

During my PhD I was a teacher and exercises supervisor at the Université of Nantes. I taught the following subjects :

- Single variable calculus
- Multivariable calculus

- Series and discrete probability
- Logic, enumeration and sequences.

Competences

Followed classes

Here are the classes followed during my master :

- Differential geometry and topology
- Algebraic topology
- Complex geometry and Hodge theory
- Introduction to hyperbolic geometry
- Generating functions and symplectic geometry

I did my mémoire of master on contact homology, studying the paper of J Pardon *Contact homology and virtual fundamental cycles*.

During my thesis, titled *Sutured Legendrian homologies and applications to the conormal construction*, I defined invariants of Legendrians with boundary in the sutured framework, and used it to study the conormal of braids.

Other

French is my native language, I am fluent in english and speak basic spanish and german. I know the rudiments of Caml and python, and have been playing badminton for some years.