THIRY Florian
Curriculum Vitae

PERSONAL DETAILS

Birth	May 14, 1998 (27 years old)
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ABOUT ME

Always attracted by theory, I nevertheless started with more applied studies. Once the theoretical studies were underway this allowed me, to understand the concepts from within a certain distance. Today, I'm in PhD in the fields of K-theory, groupoids and their C^*-algebras, index theory, functional analysis and non-commutative geometry. I'm also really interested in the popularisation/vulgarisation of science, for all audiences (young researchers or laymen).

PRESENTATIONS

Talks in conferences

- Fully ellipticity using groupoids, 5 mins, conference topological groupoids and their C^*-algebras, Isaac Newton Insitut, Queen's university Belfast Nothern Ireland, 30 june to 4 july 2025.

- Index theory for manifolds with corners, 40 mins, Thematic school Baum Connes conjecture IHP Paris France, 29 january 2025, invited speaker.

- Index theory for manifolds with corners, 30 mins, Non commutative geometry christmas tree Orléans France, 11-14 december 2024.

Talks for a wider audience

- Introduction to the Atiyah Singer theorem and to the K-theory of C^*-algebras, 1 hour, séminaire doctorant de l'insitut de mathématiques de Marseille, 9 january 2025

- Introduction to the Atiyah Singer theorem and to the K-theory of C^*-algebras, 1 hour, Student seminar institut de mathématiques de Toulouse, 10 october 2024

- Quid of index theory and K-theory, 45 mins, young pure math researchers seminar Insitut de mathématiques de Toulouse, 13 december 2023.

Science outreach

- Presentation on scientific research careers in a high school class, Toulouse, june 2025

- Facilitated a workshop on Turing machines for children aged 8–12, as part of the Les Maths en Scène outreach festival, Toulouse, 15 to 16 march 2024 (La marelle de Turing : link here)

- Facilitated a Turing machine workshop for a general audience at the *Quai des savoirs*, Toulouse, 10 february 2024

CONFERENCES ATTENDED

Conference - Topological groupoids and their C*-algebras — 30 june - 4 july 2025
Isaac Newton Insitut, Queen's University Belfast (speaker)

Summer School - Groupoids from a measurable, topological and geometric perspective — 23 june - 27 june 2025
Université Paris cité - Paris

Thematic school - Baum Connes Conjecture — 27 january - 7 february 2025
Insitut Henri Poincaré Paris France (invited speaker)

Thematic school - Représentation theory and operator algebras — 5-11 january 2025
CIRM Marseille France

Conference - Non commutative geometry christmas tree — 11-14 december 2024
Insitut Denis Poisson Orléans France (speaker)

Conference - Non commutative geometry and higher structures — 16-22 september 2024

Aristotle University of Thessaloniki Greece
Conference - Group operator algebras and Non commutative geometry
<div align="right">22-26 April 2024</div>

CIRM Marseille France
Conference - French German Non commutative christmas tree
<div align="right">7-9 december 2023</div>

Insitut Elie Cartan de Lorraine Metz France
Conference - NSeaG2023 Noncommutative geometry and operator algebras
<div align="right">8-12 may 2023</div>

Hausdorff Center for mathematics Bonn Germany
MasterClass - Non commutative geometry and analysis on manifolds
<div align="right">13-15 april 2023</div>

Insitut Elie Cartan de Lorraine Metz France

EDUCATION

PhD
<div align="right">September 2023 - July 2026</div>

Paul Sabatier University-Toulouse 3, Toulouse, France
  Geometric and topological obstructions for Fredholm boundary conditions on manifolds with singularities.

M2 Research And Innovation (RI) Domain: Math and Application
<div align="right">2022-2023</div>

Paul Sabatier University-Toulouse 3, Toulouse, France
  (lectures in english)
 This master was oriented to geometry (complex geometry, hyperbolic geometry, homotopy, homology, . . .). It was also focus in spectral theory and in K-theory of C^*-algebras.

Agrégation of mathematics (competitive examination for French public education system)
<div align="right">2021-2022</div>

Paris Saclay University, Orsay, France.
  Obtained: rank 174/338 (agregate status is not a diploma)

M1 fundamentals and applied mathematics: speciality fundamental mathematics
<div align="right">2020-2021</div>

Paris Saclay University, Orsay, France
  This master was devoted to advanced studies on PDEs using distribution theory, Sobolev spaces theory, ... It was also oriented to harmonic analysis, and to spectral theory for Sobolev spaces purposes.

Bachelor pure and applied mathematics
<div align="right">2017-2020</div>

Paris Saclay University, Orsay, France

Generalist engineering school
<div align="right">2016-2017</div>

Polytech Nancy, Lorraine University, Nancy, France

WORK EXPERIENCE

Internship in Paul Sabatier University
<div align="right">March - June 2023</div>

 The aim of this internship is to put K-theory into practice in the problem that historically gave birth to it: the Atiyah-Singer index theorem using K-theory of deformation groupoids.
Supervisor: Dr Paulo Carillo Rouse

Internship in highschool teaching
<div align="right">October - December 2022</div>

During this internship I taught mathematics to two classes only mondays under the supervision of their usual teacher.
Responsible: Mrs. Pons

Internship in CEA - Paris Saclay, team Neurospin
<div align="right">July - August 2020</div>

Goal of this internship was to modelize the heat diffusion in a patient's brain during an MRI examination to prevent brain damage.
Objectives: Understand the physic problem / Modelize the heat diffusion using matlab / Data analysis and valorization
Software: Windows, matlab
Supervisor: Dr. Gras Vincent

SKILLS

Language

MT	French
Fluent	English
Scholar	German

Organisationals duties

Responsible of pure math doctoral seminar - Université de Toulouse, France

<div align="right">Thiry Florian</div>