

LÉONARD CADILHAC

Born in Paris, 21/03/1993
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POSITIONS AND EDUCATION

- Sorbonne université, Paris, France** *September 2021 - ...*
Institut Mathématique de Jussieu
Associate professor
- Université Paris-Sud, Orsay, France** *September 2020 - August 2021*
Laboratoire Mathématique d'Orsay
“Hadamard Lecturer” postdoctoral position
- IMPAN, Warsaw, Poland** *October 2019 - August 2020*
Institute of Mathematics of the Polish Academy of Science
Postdoctoral position
- Université de Caen Normandie, France** *September 2016 - August 2019*
Laboratoire de mathématiques Nicolas Oresme (LMNO)
PhD thesis under the supervision of Eric Ricard
Defense: 3rd of July, 2019
- Ecole Normale Supérieure de Lyon, France** *September 2012 - August 2016*
Master in mathematics
- Imperial College London, United Kingdom *September 2015 - May 2016*
ERASMUS year as an undergraduate student
Passed the Agrégation examination 2015

PAPERS

- Spectral multipliers in group algebras and Claderón-Zygmund theory**
with Jose M. Conde-Alonso and Javier Parcet
submitted
- A metric characterization of freeness**
with Benoit Collins
submitted
- Lorentz-Shimogaki-Arazy-Cwikel Theorem revisited**
with Fedor Sukochev and Dmitriy Zanin
submitted
- Sum of Free Variables in Fully Symmetric Spaces**
with Éric Ricard
Proceedings of the London Mathematical Society
- Majorization, interpolation and noncommutative Khintchine inequalities**
to be published in Studia Mathematica
- Noncommutative Khintchine inequalities in interpolates of L_p -spaces**
Advances in Mathematics, 2019

Noncommutative Calderón-Zygmund operators in noncommutative L_1 -spaces
Journal of Functional Analysis, 2018

TEACHING

Exercice sessions at Université Paris-Sud

- Maths course for L2 students in Chemistry (30 h) 2020 – 2021
- Algebra and Geometry course for L1 students in Mathematics (30 h) 2020 – 2021

Exercice sessions at Université de Caen Normandie

- Analysis course for L2 students in Mathematics (125 h) 2016 – 2019
- Discrete mathematics for computer science students (65 h) 2017 – 2019

TALKS

Sorbonne University, Paris, France *December 2020*
Operator algebra seminar

Title: Weak type inequalities for noncommutative singular integrals

Universidad Autónoma de Madrid, Madrid, Spain *December 2020*
Analysis seminar

Title: Noncommutative square functions and some related inequalities

CIRM, Luminy, France *October 2020*
Conference: Entangling Non-commutative Functional Analysis and Geometry of Banach Spaces

Title: Weak type inequalities for noncommutative singular integrals

TU Delft, Delft, Netherlands *September 2020*
Analysis seminar

Title: Weak type inequalities for noncommutative singular integrals

Université Paris-Sud, Orsay, France *September 2020*
Journées de rentrée des Masters

Title: Preuves d'existence par abondance (vulgarisation)

University of Kyoto, Kyoto, Japan *February 2020*
Operator algebra seminar

Title: Noncommutative square functions and some related inequalities

IMPAN, Warsaw, Poland *December 2019*
Analysis seminar

Title: On the abstract interpolation theory of L_p -spaces

University of Wrocław, Wrocław, Poland *December 2019*
Free probability seminar

Title: On the best constant for free Khintchine inequalities

University of New South Wales, Sydney, Australia *April 2019*
Analysis seminar

- Title: On the best constant for free Khintchine inequalities
Université Clermont Auvergne, Clermont-Ferrand, France *January 2019*
Seminar of Probability, Analysis and Statistics
- Title: Noncommutative Khintchine inequalities in symmetric spaces
Université de Lorraine, Metz, France *December 2018*
Christmas meeting of the research group on noncommutative geometry
- Title: Noncommutative Khintchine inequality in interpolates of L_p spaces
University of New South Wales, Sydney, Australia *August 2018*
Analysis seminar
- Title: Noncommutative Khintchine inequality in interpolates of L_p spaces
Mathematisches Forschungsinstitut Oberwolfach, Germany *May 2018*
Workshop: Interactions between Operator Space Theory and Quantum Probability with Applications to Quantum Information
- Title: About noncommutative Khintchine inequalities in $L_{1,\infty}$ and $L_{2,\infty}$
Instituto de Ciencias Matemáticas, Madrid, Spain *March 2018*
Analysis seminar
- Title: Noncommutative Khintchine inequality for interpolated spaces of L_p spaces
Université de Caen Normandie, France *February 2018*
Seminar for young researchers
- Title: Introduction to Percolation Theory
Université Paris-Sud, France *December 2017*
Meeting of the GDR of Noncommutative Geometry
- Title: Boundedness of Calderón-Zygmund operators in noncommutative L_1 spaces
Université de Caen Normandie, France *November 2017*
Seminar for young researchers
- Title: Introduction to Noncommutative Integration
Université de Caen Normandie, France *May 2017*
Seminar for young researchers
- Title: Games and Artificial Intelligence
Université de Franche-Comté, France *March 2017*
Functional analysis seminar
- Title: Boundedness of Calderón-Zygmund operators in noncommutative integration
Université de Caen Normandie, France *November 2016*
Seminar for young researchers
- Title: Noncommutative Calderón-Zygmund operators

RESEARCH EXPERIENCES

- University Kyoto, Kyoto, Japan** *February 2020*
 1 week research visit by invitation of Prof. B. Collins
- University of New South Wales, Sydney, Australia** *spring 2019*
 2 weeks research visit by invitation of Prof. F. Sukochev

University of New South Wales, Sydney, Australia

summer 2018

2 weeks research visit by invitation of Prof. F. Sukochev

ICMAT, Madrid, Spain

spring 2018

1 week research visit by invitation of Prof. J. Parcet

University of Luxembourg, Luxembourg

2014

Internship: *The number of disjoint simple closed curve on a compact surface*

Now part of the projects of the experimental mathematics lab

Université de Nantes, France

2013

Internship: *Introduction to algebraic K-theory*

ORGANISATIONAL ACTIVITIES

Organisor of the working seminar: "Ramanujan graphs"

2018

Université de Caen Normandie, France

Organisor of the seminar for young researchers

2017 - 2018

Université de Caen Normandie, France

OTHER SKILLS

Languages

French

Native language

English

Fluent

Spanish

Beginner

Albanian

Beginner

Programming

Basic knowledge of algorithmics and a few languages (C, C++, Python, Scilab, Ocaml)