

LÉONARD CADILHAC

Born in Paris, 21/03/1993
leonard.cadilhac@u-psud.fr

POSITIONS AND EDUCATION

Sorbonne université, Paris, France

Institut Mathématique de Jussieu

Associate professor (Maître de Conférences)

September 2021 - ...

Université Paris-Sud, Orsay, France

Laboratoire Mathématique d'Orsay

“Hadamard Lecturer” postdoctoral position

September 2020 - August 2021

IMPAN, Warsaw, Poland

Institute of Mathematics of the Polish Academy of Science

Postdoctoral position

October 2019 - August 2020

Université de Caen Normandie, France

Laboratoire de mathématiques Nicolas Oresme (LMNO)

PhD thesis under the supervision of Eric Ricard

Defense: 3rd of July, 2019

September 2016 - August 2019

Ecole Normale Supérieure de Lyon, France

Master in mathematics

Imperial College London, United Kingdom

ERASMUS year as an undergraduate student

Passed the Agrégation examination

September 2012 - August 2016

September 2015 - May 2016

2015

PUBLICATIONS

Revisiting the Marcinkiewicz theorem for non-commutative maximal functions.

with Éric Ricard, *Publicacions Matemàtiques*, 2025

Spectral multipliers in group algebras and Claderón-Zygmund theory

with Jose M. Conde-Alonso and Javier Parcet, *Journal de Mathématiques Pures et Appliquées*, 2022

A metric characterization of freeness

with Benoit Collins, *Journal of Functional Analysis*, 2022

Lorentz-Shimogaki-Arazy-Cwikel Theorem revisited

with Fedor Sukochev and Dmitriy Zanin, *Journal of Operator Theory*, 2024

Sum of Free Variables in Fully Symmetric Spaces

with Éric Ricard, *Proceedings of the London Mathematical Society*, 2021

Majorization, interpolation and noncommutative Khintchine inequalities

Studia Mathematica, 2021

Noncommutative Khintchine inequalities in interpolates of L_p -spaces

Advances in Mathematics, 2019

AWARD

2023 Jaroslav and Barbara Zemánek Prize in functional analysis

TEACHING

2022 Undergraduate Course at Prishtina International Summer University

2021 - 2024 (192h/year)

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|--------------------------------------|-------------|
| • Mathematics for sciences | L1 science |
| • Calculus | L1 Maths |
| • Linear and bilinear algebra | L2 Maths |
| • Topology and differential calculus | L2 Maths |
| • Topology and differential calculus | L3 Maths |
| • Probability | L3 Maths |
| • Measure theory | L3 Maths |
| • Functional analysis | L3 Maths |
| • Distributions | M1 Maths |
| • Leçons d'analyse et d'algèbre | Prépa agreg |

2020 - 2021 (64h)

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| • Maths | L2 Chemistry |
| • Algebra and Geometry | L1 Maths |

2016 - 2019 (64h/year)

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| • Analysis | L2 Maths |
| • Discrete mathematics | L2 Computer Science |

TALKS

Mini-courses

Rencontres du GdR AFHP, Lyon, France	June 2023
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Conferences

12 th International Conference on Harmonic Analysis, El Escorial, Spain	June 2025
Besançon, France	December 2023
NCHA and Rigidity of Operator Algebras, Delft, Netherlands	August 2023
Noncommutative Harmonic Analysis and Quantum Information, Mittag-Leffler, Sweden	June 2023

Rencontres du GdR GNC, IHES, France	December 2022
Rencontres de l'ANR ANCG, Cabourg, France	Novembre 2022
Miniworkshop on operator theoretic aspects of ergodic theory, Kiel, Germany	October 2022
Operator algebra, dynamics and groups - ICM satellite conference, Copenhagen, Denmark	July 2022
Lorentz Center, Leiden, Netherlands	November 2021
CIRM, Luminy, France	October 2020
Mathematisches Forschungsinstitut Oberwolfach, Germany	May 2018
Arbre de Noël du GDR GNC, Metz, France	December 2018

Seminars

Bristol, United Kingdom	June 2024
Warsaw, Poland	November 2023
Glasgow, United Kingdom	November 2023
Ghent, Belgium (online)	September 2023
Warsaw, Poland	May 2023
Copenhagen, Denmark	May 2023
Harbin Institute of Technology, China	November 2022
Universidad Autonoma de Madrid, Spain	June 2022
Université Paris Cité, Paris, France	April 2022
Sorbonne Université, Paris, France	March 2022
Université Paris-Saclay, Orsay, France	October 2021
Virtual Noncommutative Analysis Workshop Seminar	June 2021
UCLA, Los Angeles, United States (online)	May 2021
Berkeley, San Francisco, United States (online)	April 2021
Sorbonne University, Paris, France	December 2020
Universidad Autónoma de Madrid, Madrid, Spain	December 2020
TU Delft, Delft, Netherlands	September 2020
University of Kyoto, Kyoto, Japan	February 2020
IMPAN, Warsaw, Poland	December 2019
University of Wrocław, Wrocław, Poland	December 2019
University of New South Wales, Sydney, Australia	April 2019
Université Clermont Auvergne, Clermont-Ferrand, France	January 2019
University of New South Wales, Sydney, Australia	August 2018
Instituto de Ciencias Matemáticas, Madrid, Spain	March 2018
Université Paris-Sud, France	December 2017

Université de Caen Normandie, France	November 2017
Université de Franche-Comté, France	March 2017
Université de Caen Normandie, France	November 2016

Outreach

Université Paris-Sud, Orsay, France	September 2020
Université de Caen Normandie, France	February 2018
Université de Caen Normandie, France	May 2017

ORGANISATION

Conferences

Commutative and noncommutative harmonic analysis, ICMS, Edinburgh, UK	September 2025
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Seminars and working groups

Working seminar on discrete and noncommutative harmonic analysis	2024
Working seminar: "Ramanujan graphs"	2018
Sseminar for young researchers	2017 - 2018

OTHER SKILLS

Languages

French	<i>Native language</i>
English	<i>Fluent</i>
Spanish	<i>Beginner</i>
Albanian	<i>Beginner</i>

Programming

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