## Omar Mohsen

01/03/1996 | French Citizen |  $\P$  Paris, France |  $\P$  07.81.32.99.93 |  $\blacksquare$  omar.mohsen.fr@gmail.com ■ omar.mohsen@universite-paris-saclay.fr | **G**https://sites.google.com/view/omar-mohsen-webpage/home

## F

EDUCATION	
Université Paris Cité PhD under the supervision of G. Skandalis. More details in https://theses.fr/2018USPCC200	Paris, France  9 Sep. 2015 – Oct. 2018
Ecole Normale Supérieure Paris Ulm  ENS Diploma	Paris, France Sep. 2012 – Aug. 2015
Paris-Saclay University  Master's degree	Orsay, France Sep. 2013 – Aug. 2015
CAREER	
Maïtre de conference in Mathematics (Research and Teaching position)  Paris-Saclay University	Orsay, France Sep. 2021 – Present
Research Postdoc  Muenster University	Muenster, Germany Sep. 2019 – Aug.2021
Temporary Teaching Position (ATER) Paris-Cité University	Paris, France Oct. 2018 – Aug.2019
Articles	
Witten deformation using Lie groupoids  Index theorem for inhomogeneous hypoelliptic differential operators  Muenster Chern Simons invariants in KK theory  Differential operators on C*-algebras and applications to smooth functional calculus  On the deformation groupoid of the inhomogeneous pseudo-differential calculus  Remarks on a groupoid approach to the Wodzicki residue and the Kontsevich-Vishik trace  The convolution algebra of Schwarz kernels on a singular foliation  Journal of the Wodzicki residue and the Kontsevich-Vishik trace  The convolution algebra of Schwarz kernels on a singular foliation  Journal of the Wodzicki residue and the Kontsevich-Vishik trace	Advances in mathematics Advances in mathematics Journal of mathematics nal of functional analysis nal of functional analysis Bulletin of the L.M.S. Submitted urnal of Operator theory
A pseudodifferential calculus for maximally hypoelliptic operators and the Helffer-Nourrigat • Joint work with I. Androulidakis and R. Yuncken	conjecture Submitted
Blow-up groupoid of singular foliations On the index of maximally hypoelliptic differential operators	Submitted Submitted
Supervision	
Moudrik Chamoux M2 thesis on deformation to the normal cone. Enzo Tanguide and Quentin Casella M1 thesis on singular homology Julie Capron M1 thesis on nuclear $C^*$ -algebras Oleskii Shulga M1 thesis on amenable groups Anatole Dedecker M1 thesis on amenable groups Matiss Brunel, Quentin Giton and Flore le Roux L3 thesis on Poincare's rotation number	2024 2024 2024 2024 2023 2022
TECHNICAL SKILLS	
Languages: Java. C++	

Languages: Java, C++

Human Languages: English (C2), French (C2), Arabic (Fluent)

Developer Tools: Git, VS Code, IntelliJ