

with Androulidakis and Yuncken 2022

Blow-up groupoid of singular foliations

OMAR MOHSEN

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French

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SCIENTIFIC CAREER

Maître de conférence (research/teaching position) University of Paris-Saclay	September. 2019 – C	Current France
Postdoc University of Muenster	September. 2019 – Augu	
ATER (Teaching Position) Paris Diderot university	October 2018 – Augu	•
EDUCATION		
PhD Thesis defended in October 2018 under the direction of G. Skandalis Paris Diderot university (currently Paris-cité university)	October 2015 – Octob	er 2018 France
ENS Diploma École normale supérieure de Paris	2012	– 2015 France
Master University of Paris-Saclay	2013	– 2015 France
PUBLISHED AND ACCEPTED FOR PUBLICATION ARTICLES		
Higher order derivations on C*-algebras and applications to smooth fur Journal of functional analysis	ınctional calculus	2024
Tangent groupoid and tangent cones in sub-Riemannian geometry Duke Mathematical Journal		2024
Witten deformation using Lie groupoids Advances in Mathematics		2021
The convolution algebra of Schwarz kernels on a singular foliation		2020
Journal of Operator theory	·	
On the deformation groupoid of the inhomogeneous pseudo-different Bulletin of the London Mathematical society	ial calculus	2020
Index theorem for inhomogeneous hypoelliptic differential operators Muenster Journal of Mathematics		2020
Chern Simons invariants in KK theory Journal of functional analysis		2018
PREPUBLICATION ARTICLES		
Remarks on a groupoid approach to the Wodzicki residue and the Kon	tsevich-Vishik trace	2023
On the index of maximally hypoelliptic differential operators		2022
A pseudodifferential calculus for maximally hypoelliptic operators and	d the Helffer-Nourrigat co	njecture

2022

SUPERVISION

Moudrik Chamoux Still under current supervision	2023 M2
Anatole Dedecker Title: Groupes Moyennables	2023 M1
Matiss BRUNEL, Quentin GITON, Flore LE ROUX Title: Le nombre de Rotation	2022 L3

GRANTS

ANR	2023
Part of the ANR team OPART	France
Région Ile de France, FSMP	2015-2018
PhD Grant	France
Fondation Sciences Mathématiques de Paris (FSMP)	2013-2015
Bourse d'excellence (Scholarship)	France
Fondation Mathématiques Jacques Hadamard (FMJH)	2012
Bourse d'excellence (Scholarship)	France

SCIENTIFIC EVALUATION

I was referee for the following journals

- 1. Advances in Mathematics
- 2. Comptes rendus de l'académie des sciences
- 3. Journal of Geometry and Physics
- 4. Journal of noncommutative geometry
- 5. Journal of the Fourier institute
- 6. Math. Ann.
- 7. Muenster journal of mathematics
- 8. Crelle journal
- 9. Astérisque
- 10. Pacific Journal of Mathematics
- 11. Journal of Geometric analysis
- 12. Journal of Differential Equations

SCIENTIFIC AND ADMINISTRATIVE RESPONSIBILITIES

Summer school YMC*A	2021
Organisation member	Germany
PhD students seminar Paris Diderot	2017-2018
Organisation member	France
Work group on Atiyah-Singer index theorem	2014
I organised a work group in the ENS following « Seminar on Atiyah-Singer index theorem » by S. Palais	France

SKILLS

Languages: Arabic (Mother Language), English (Fluent), French (Advanced)

Piano: around Grade 10 following the The RCM (Royal Conservatory of Music) grading