

MOHAMAD RACHID

PHD IN MATHEMATICS



📍 Lebanese
📅 01 January 1996
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EDUCATION

Université de Nantes Ph.D. in Mathematics, Advisors: Frédéric Hérau and Isabelle Tristani • Thesis topic: Spectral estimates and hydrodynamical limit for the Landau equation	Nantes, France 2018–2021
Université de Nantes Master 2 in Mathematics “Mathématiques fondamentales et appliquées: analyse et probabilités” • Rank:1	Nantes, France 2017–2018
Lebanese University M1 in pure and applied Mathematics	Beirut, Lebanon 2016–2017
Lebanese University Bachelor of science in Mathematics	Beirut, Lebanon 2013–2016

EXPERIENCE

École des Ponts ParisTech (CERMICS & MATHÉRIALS Inria) Postdoctoral researcher in Mathematics, Supervisor: Tony Lelièvre and Gabriel Stoltz • Topic: Narrow escape problem	Marne-La-Vallée, France March 2021–Current
École des Ponts ParisTech Teaching at École des Ponts ParisTech • Tutorial in Analysis and Scientific Computing (18 heures)	Marne-La-Vallée, France September 2022–Current
École Supérieure d’Ingénieurs Léonard de Vinci Teaching at École Supérieure d’Ingénieurs Léonard de Vinci • Tutorial in Reduction of Endomorphisms (18 heures)	La Défense, France September 2022–Current
Université de Nantes Laboratoire De Mathématique Jean Leray (LMJL) • A.T.E.R (Attaché temporaire d’enseignement et de recherche)	Nantes, France September–March 2021
Université de Nantes Laboratoire De Mathématique Jean Leray (LMJL)	Nantes, France February–July 2018

- **Thesis topic:** Pseudo-differential calculus for the study of kinetic equations

Université de Nantes

Teaching at Université de Nantes

Nantes, France

2021–2022

- Tutorial and course in Mathematics for BGC for L1 (36 hours)
- Tutorial in linear algebra for PC for L1 (24 hours)
- Tutorial and course in Functions of one real variable for L1 (16 hours)
- Tutorial in Linear algebra for computer science for L1 (20 hours)

Université de Nantes

Teaching at Université de Nantes

Nantes, France

2020–2021

- Tutorial and course in Mathematics 1 for L1 (24 hours)
- Tutorial in Vector algebra and geometry for L1 (24 hours)
- Tutorial in Elementary linear algebra for L1 (12 hours)

Université de Nantes

Teaching at Université de Nantes

Nantes, France

2019–2020

- Tutorial and course in Mathematics 1 for L1 (24 hours)
- Tutorial in Vector algebra and geometry for L1 (24 hours)
- Tutorial in Functions of several variables for L2 (12 hours)

Université de Nantes

Teaching at Université de Nantes

Nantes, France

2018–2019

- Tutorial in Linear algebra for computer science for L1 (36 hours)
- Tutorial in Vector algebra and geometry for L1 (24 hours)

PUBLICATIONS

- [1] M. Rachid, “Incompressible navier-stokes-fourier limit from the landau equation”, *Kinetic & Related Models*, vol. 14, no. 4, pp. 599–638, 2021.
- [2] K. Carrapatoso, M. Rachid, and I. Tristani, “Regularization estimates and hydrodynamical limit for the landau equation”, *Journal de Mathématiques Pures et Appliquées*, vol. 163, pp. 334–432, 2022.
- [3] M. Rachid, “Hypoelliptic and spectral estimates for the linearized Landau operator”, *To appear in Journal Pure and Applied Analysis*.

SEMINARS AND CONFERENCE TALKS

- **Rencontre ANR QuAMProcs (conférence)** at Inria Paris March 2022
- **Asymptotic Behaviors of systems of PDEs arising in physics and biology - 4th edition (conference)** at Université de Lille November 2021
- **Modèles et méthodes pour les équations cinétiques (conférence)** at Université de Bordeaux October 2021
- **Journées 2021 du projet EFI (conférence)** at Université Paris-Dauphine October 2021

- **From PhD to PhD: A Conference Mapping the Network of Lebanese Mathematics (Online conference)** at American University of Beirut June 2021
- **Séminaire de Physique Mathématique - EDP (Online seminar)** at Université de Bordeaux May 2021
- **Colloque des Doctorants (Online conference)** at Université Côte d’Azur April 2021
- **Séminaire des doctorants** at Université de Nantes April 2021
- **Séminaire du CERMICS (Online seminar)** at Ecole des Ponts ParisTech February 2021
- **Nonlinear Evolutionary Partial Differential Equations: Theories and Applications (Online conference)** at Shanghai Jiao Tong University December 2020
- **Séminaire des doctorants** at Université de Nantes February 2020
- **Séminaire des doctorants** at Université de Nantes March 2019

ATTENDED CONFERENCE AND SUMMER SCHOOL

- **Attend summer school** in Saint Jean de Monts – France 28 June–02 July
Subject: From kinetic equations to statistical mechanics
- **Attend conference** in Dijon – France March 2021
Subject: 13th (Online) Meeting of the GDR DYNQUA
- **Attend conference** in Strasbourg – France February 2020
Subject: 12th Conference of the GDR DYNQUA
- **Attend conference** in Nantes – France October 2019
Subject: Rencontres doctorales Lebesgue 2019
- **Attend conference** in Rennes – France March 2019
Subject: Journées Jeunes EDPistes 2019
- **Attend conference** in Bordeaux – France February 2019
Subject: 11e Rencontre du GDR Dynamique Quantique
- **Attend conference** in Brest – France October 2018
Subject: Les Rencontres Doctorales 2018

ORGANIZATION OF SEMINARS AND CONFERENCES

- **Co-organization of conference** in Nantes – France October 2019
Subject: Rencontres doctorales Lebesgue 2019
- **Co-organization of “la journée de sortie du laboratoire”** in Nantes – France June 2019
- **Co-organization of seminar** in Nantes – France January-June 2019
Subject: Séminaire des doctorants

SKILLS

- **MATLAB**
- **C language**
- **Freefem++**
- **Latex**

LANGUAGES

- **French:** Fluent
– **EXAM:** Delf B2
- **English:** Good
- **Spanish:** Good
- **Arabic:** Native

EXTRACURRICULAR ACTIVITIES

- Vice president of lebanese association (AELN) in Nice – France 2020–2021
Reception and integration assistance for lebanese students in Nice
- President of lebanese association (ANADYL) in Nantes – France 2018–2020
Reception and integration assistance for lebanese students in Nantes