

# MOHAMAD RACHID

## PHD IN MATHEMATICS



🇱🇧 Lebanese  
🏠 01 January 1996  
🏠 Champs-sur-Marne, France  
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### EDUCATION

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**Université de Nantes** Nantes, France  
Ph.D. in Mathematics, Advisors: Frédéric Hérau and Isabelle Tristani 2018–2021  
• **Thesis topic:** Spectral estimates and hydrodynamical limit for the Landau equation

**Université de Nantes** Nantes, France  
Master 2 in Mathematics “Mathématiques fondamentales et appliquées: analyse et probabilités” 2017–2018  
• Rank:1

**Lebanese University** Beirut, Lebanon  
M1 in pure and applied Mathematics 2016–2017

**Lebanese University** Beirut, Lebanon  
Bachelor of science in Mathematics 2013–2016

### EXPERIENCE

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**École des Ponts ParisTech (CERMICS)** Marne-La-Vallée, France  
Postdoctoral researcher in Mathematics, Supervisor: Tony Lelièvre and Gabriel Stoltz March 2021–Current  
• **Topic:** Narrow escape problem

**Université de Nantes** Nantes, France  
Laboratoire De Mathématique Jean Leray (LMJL) September–March 2021  
• **A.T.E.R (Attaché temporaire d’enseignement et de recherche)**

**Université de Nantes** Nantes, France  
Laboratoire De Mathématique Jean Leray (LMJL) February–July 2018  
• **Thesis topic:** Pseudo-differential calculus for the study of kinetic equations

**Université de Nantes** Nantes, France  
Teaching at Université de Nantes 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 AND PREPUBLICATIONS

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- [1] K. Carrapatoso, M. Rachid, and I. Tristani, *Regularization estimates and hydrodynamical limit for the landau equation*, 2021. arXiv: [2107.12044](https://arxiv.org/abs/2107.12044) [[math.AP](#)].
- [2] M. Rachid, “Incompressible navier-stokes-fourier limit from the landau equation”, *Kinetic & Related Models*, vol. 14, no. 4, pp. 599–638, 2021.
- [3] M. Rachid, “Hypoelliptic and spectral estimates for the linearized Landau operator”, *arXiv preprint arXiv:2004.09300*, 2020.

## SEMINARS AND CONFERENCE TALKS

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- **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)** à l'Université de Bordeaux October 2021
- **Journées 2021 du projet EFI (conférence)** à l'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

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- **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

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- **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

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- **MATLAB**
- **C language**
- **Latex**
- **Microsoft Office**

## LANGUAGES

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

## EXTRACURRICULAR ACTIVITIES

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- 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*