Claire Alamichel

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Current position

2024 – present · **Postdoctoral Researcher**, INRIA, Rennes.
Numerical methods for evolution in spatially structured population models.
Work in collaboration with Hélène Hivert.

Education

2020 – 2024 · **PhD in Applied Mathematics**, Université d'Évry Val d'Essonne & Politecnico di Torino, Évry & Turin.
Advisors: Nicolas Meunier and Luigi Preziosi.
Influence of the cell nucleus on cell motility: modelling, numerical simulations and mathematical study.
Joint international thesis.
Thesis defended on 20 September 2024.

2019 – 2020 · **Master 2**, *Mathématiques pour les Sciences du Vivant*, Université Paris-Saclay, Orsay.

2018 – 2019 · **Master 1 Mathématiques fondamentales**, Université Paris-Sud, Orsay.

2017 – 2020 · **Magistère de mathématiques**, Université Paris-Saclay , Orsay.

2015 – 2018 · **Licence de mathématiques**, Université Paris-Sud, Orsay.

2015 · **Baccalauréat**, Lycée Fustel de Coulanges, Massy.

Experiences

2023–2024 · **ATER**, Université d'Évry Paris Saclay, Évry
Teaching (80 hours): Tutorial of general analysis and algebra for first year students in physics-chemistry, biology and mathematics.

18 July - 26 August 2022 · **CEMRACS 2022**, *(Centre d'été de mathématiques et de recherche avancée en calcul scientifique), CIRM Marseille*, Transport in Physics, Biology and Urban traffic.

Given talks, and seminars

16 July 2024 · **Journal Club DISMA**, *Turin*, Influence of the nucleus on cell motility: modelling and numerical simulations.

18 June 2024 · **LaMME doctoral students' seminar**, *Évry*, Modélisation de la motilité cellulaire et simulations numériques.

13 June 2024 · **Numerical analysis seminar**, *Rennes*, Modélisation de la motilité cellulaire et simulations numériques.

6-10 November 2023 · **XIV Jornada de matemáticos ecuatorianos en Paris**, *Paris*, Modelling and numerical simulations of cell motility.

12 October 2023	**Presentation day for the LaMME to students in the Master MEEF programme at the Université Paris-Saclay**, *Évry*, Simulations numériques du problème de la migration cellulaire sur un disque avec une vitesse d'advection homogène dans l'espace, *mediation talk*.
9 May 2023	**IRMA doctoral students' seminar**, *Strasbourg*, A propos de la modélisation de la motilité cellulaire.
7 April 2023	**Orsay analysis doctoral students' seminar**, *Orsay*, Un modèle de la motilité cellulaire en présence d'un signal extérieur.

Attended conferences and worshops

26 - 28 June 2024	**Journées Maths Bio Santé**, *Nantes*.
6 - 9 September 2022	**BioTOMath - Mathematical Challenges in Biology and Medicine**, *Turin*.
28 March - 1er April 2022	**Mathematical Modeling of Organization in Living Matter**, *CIRM Marseille*.
10 -14 January 2022	**Workshop 'Tissue growth and movement'**, *IHP Paris*.

Publication

| 2023+ | Claire Alamichel, Juan Calvo, Erwan Hingant, Saoussen Latrach, Nathan Quiblier and Romain Yvinec, *Modeling compartmentalization within intracellular signaling pathway*, submit. |

Administrative tasks

| 2023-2024 | Organiser of the LaMME doctoral students' seminar. |
| 2022-2023 | Elected doctoral student representative on the EDMH doctoral school board. |

Skills

| Programming language | FreeFem++, Python, C++, Julia. |
| Languages | French (native), English (advanced), German (scolar), Italian (notions). |