Gwenaël Peltier

Curriculum vitæ

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born 10th of May 1993

Education

Since 2018 **PhD in mathematics**, *Université de Montpellier*.
Subject: Invasions in reaction-diffusion equations inspired from evolutionary biology.
Supervisors : Matthieu Alfaro and Ophélie Ronce.

2017–2018 **Master's Degree final year**, *Université Pierre-et-Marie-Curie*.
Applied mathematics, more precisely in biological and medical sciences.

2016–2017 **Preparation of the "Agrégation" of mathematics**, *ENS Cachan*.
Option scientific computing. Rank 51 (out of 305 admitted).

2015–2016 **Master's Degree first year**, *ENS Cachan*.
Obtained the "normalien" status by a competitive exam of ENS Cachan (6th out of 11 admitted).

2012–2015 **Master's Degree in engineering**, *Ecole Centrale de Lyon*.
Master's Degree in applied mathematics at Université Lyon 1 concurrently.

Publications

Submitted

G. Peltier, *Accelerating invasions along an environmental gradient*, To be published in Journal of Differential Equations.

Published

Grégory Faye et G. Peltier, *Anomalous invasion speed in a system of coupled reaction-diffusion equations*, Commun. Math. Sci. 16 (2018), no. 2, 441–461.

Scientific events

September 2019 **ReaDiNet conference: Mathematical Analysis for Biology and Ecology**, *Poster presentation*.

September 2019 **Session of the research group MaMoVi**, *Short talk*.

June 2019 **BIOMAT Granada Conference: Patterns in Life and Social Sciences**.

April 2019 **IMT-IMAG Days**, *Poster presentation*.

November 2018 **Forum des Jeunes Mathématicien·ne·s**, *20 minutes talk*.

August 2018 **Second Joint Congress of Evolutionary Biology**, *Organisation involvement as a volunteer*.

July 2016 **CIRM Summer School: PDE and Probabilities for Life Science**, *Poster presentation*.

Experience

Internships

5 months, 2018 **Research internship**, *Institut Montpelliérain Alexander Grothendieck*.
Subject: Accelerating invasions in a reaction-diffusion equation inspired from an evolutionary ecology model.
- Supervised by Matthieu Alfaro.
- Matlab programming.

4 months, 2016 **Research internship**, *Institut de Mathématiques de Toulouse*.
Subject: Invasion fronts in a reaction-diffusion system.
- Supervised by Grégory Faye.
- Matlab programming.

6 months, 2015 **Research internship**, *McGill University (Montreal)*.
Subject: Numerical analysis of the flow of two non-miscible fluids.
- Supervised by Jean-Christophe Nave.
- Matlab and C++ programming.

Others

May 2019 Jury member of the finale of the *French Tournament of Young Mathematicians*.

Since 2019 Organizer of the *PhD Seminar of IMAG*.

Teaching

2019-2020	Numerical analysis of ODEs.	*Practical work, undergrad. 3rd year.*
	Applied mathematics to chemistry.	*Tutorials, undergrad. 2nd year.*
2018-2019	Linear algebra and analysis II.	*Tutorials, undergrad. 1st year.*
	Applied mathematics to chemistry.	*Tutorials, undergrad. 2nd year.*
2015–2018	Private lessons of various levels (middle- and high-school, undergraduate).	

Languages

French	*Mother tongue.*
English	*TOEFL certificate. Score : 637/677.*

IT skills

Scientific computing softwares	*Matlab, Python, C++, C#.*
Web languages	*HTML, PHP, CSS, etc.*

Interests

- Chess
- Crime novels
- Cycling
- Table tennis