

## Vincent Calvez

CNRS senior researcher (DR2)

Institut Camille Jordan,

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ResearcherID: D-1119-2014 and ORCID: 0000-0002-3674-1965

Born on August 20th, 1981, French citizen

## EDUCATION

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- (2015) Habilitation à Diriger des Recherches (HDR), Ecole Normale Supérieure de Lyon.  
*Quantitative analysis of structured population models in biology*  
Ref : Laurent Desvillettes, Odo Diekmann, Emmanuel Trélat.
- (2007) PhD in mathematics, University of Paris 6 and Ecole Normale Supérieure, Paris.  
*Mathematical models and analysis for the collective motion of cells*  
Supervisor : Benoît Perthame. Jury : J.A. Carrillo, J. Dolbeault (Ref.), Th. Goudon, E. Grenier (Ref.), B. Perthame, L. Saint-Raymond and C. Villani.
- (2004) Master degree in PDE and numerical analysis, University of Paris 6.
- (2001-2005) Ecole Normale Supérieure, Paris. Interdisciplinary programme in mathematics and biology.

## CURRENT POSITIONS

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- (since 2019) Deputy director of the International Research Unit CNRS UMI 3069 (Dir : J. Colliander)
- (since 2016) CNRS senior researcher at Institut Camille Jordan, Lyon

## PREVIOUS POSITIONS

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- (2017–2018) Pacific Institute for the Mathematical Sciences (PIMS, CNRS UMI 3069) at UBC, Canada
- (2014–2016) Partial affiliation to DMA, Ecole Normale Supérieure, Paris
- (2009–2016) Member of the Inria project team NUMED (head : Emmanuel Grenier)
- (2008–2016) CNRS young researcher at UMPA, Ecole Normale Supérieure de Lyon (ENS de Lyon)
- (2009) Visitor at the CRM, Barcelona, during the program on Mathematical Biology (6 months)
- (2003) Internship at the Centre for Mathematical Biology, Oxford (6 months)

## FELLOWSHIPS, PROJECTS AND AWARDS

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- (2016) EMS prize, 7th European Congress of Mathematics, Berlin.
- (2015-2020) PI of the ERC starting grant “Mesoscopic models for propagation in biology”.
- (2014) CNRS bronze medal in mathematics.
- (2012-2014) PI of the ANR project “Mathematical models for cell polarization”.
- (2009) Bellman prize “Best paper in Mathematical Biosciences, 2008-2009”.
- (2008) EPDI post-doctoral fellowship (declined for the CNRS position).

## SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

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- (grad. stud.) Mete Demircigil (since 2019)  
Léonard Dekens (since 2019), co-supervision with S. Mirrahimi  
Florian Patout (2016–2019), co-supervision with J. Garnier  
Léo Girardin (2015–2018), co-supervision with G. Nadin  
Nils Caillerie (2014–2017), co-supervision with J. Vovelle  
Alvaro Mateos González (2013–2017), co-supervision with H. Berry  
Emeric Bouin (2011–2014)
- (post. doc.) Bastien Polizzi (since 2018)  
Monika Twarogowska (2016–2018)  
Hélène Hivert (2016–2017)  
Thibault Bourgeron (2015–2017)  
Chris Henderson (2015–2016)  
Laetitia Giraldi (2013-2014)

## TEACHING ACTIVITIES

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- (since 2019) Master course in Analysis of PDE for biology, ENS de Lyon
- (since 2016) Master course in the school of medical sciences, Lyon (small groups of selected students with an intensive training in physics and mathematics)
- (2012–2014) Master course in Hamilton-Jacobi equation and applications (M2), ENS de Lyon
- (2010–2012) Graduate course in PDE, ENS de Lyon
- (2010–2012) Oral examination for admission at Ecole Normale Supérieure (Paris, Lyon and Cachan)

## ORGANISATION OF SCIENTIFIC MEETINGS

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- (2019) Co-organization of the international conference *Mathematical Models in Ecology and Evolution* (7th edition) (head : E. Rajon), 16-19 July 2019, Lyon
- (since 2018) Co-organization of the biannual seminar at the interface between PDE and probability, with C. Graham. Supported by the SMAI and Inria
- (2018) Co-organization of the *CEMRACS 2018* (23rd edition) with C. Grandmont, E. Löcherbach, C. Poignard, M. Ribot and N. Vauchelet, *Numerical and mathematical modeling for biological and medical applications*, July-August 2018, CIRM, Marseille : the SMAI 6-week international summer school and training research center, 100+ participants.
- (2013) Principal coordinator of the thematic trimester *Mathematical Biology*, ENS de Lyon and University of Lyon 1, March-June 2013 : 4 conferences, 1 workshop and 1 summer school, 400+ participants, focus on interdisciplinary conferences with biologists and theoretical physicists (evolutionary biology, cell biology, drug development, systems biology). Funded by the Labex MILYON. Supported by the ANR, the CNRS, the SMAI, and the initiative Mathematics for Planet Earth 2013.
- (2009) Co-organization of the *CEMRACS 2009* (14th edition) with P. Vigneaux, *Mathematical Modelling in Medicine*, July-August 2009, CIRM, Marseille

## INSTITUTIONAL RESPONSIBILITIES

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- (2017–2018) Member of the CNRS interdisciplinary hiring committee for *Modeling and data analysis in the biological sciences* (2 years, 21 positions in total at the interface between biology and mathematics, physics, chemistry and computer sciences)
- (since 2010) Jury member of 20 PhD committees, including 7 referee reports
- (2010–2016) Coordinator of MathàLyon, a monthly 2-days mathematical exhibition in public highschoools
- (2009–2016) Co-organizer of the seminar in PDE and applications, University of Lyon 1 and ENS de Lyon

## REVIEWING ACTIVITIES

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- (2019) Member of the evaluation committee of the research unit BioEmergences
- (since 2018) Associate editor of the SIAM Journal on Mathematical Analysis
- (since 2014) Associate editor of the Journal of Mathematical Biology, Springer
- (since 2010) Participation in several hiring committees for assistant professor positions in France
- (since 2010) Reviewer for ERC ; DFG ; ANR
- (since 2007) Reviewer for peer-reviewed journals : Invent Math (preliminary and full reports); Nature Phys; JEMS; Duke Math J; JFA; ARMA; Ann IHP; CPDE; SIAM J Math Anal; J Comp Phys; J Stat Phys; J. Theor Biol; J Math Biol; Bull Math Biol, etc.