

TALKS

★ = invited speaker

★ Thermogamas ANR Days <i>Computer-Powered Chaos in Lattice Models.</i>	Bordeaux, France	2025
★ IECL Probability Seminar <i>Computer-Powered Chaos in Lattice Models.</i>	Nancy, France	2025
★ Thermogamas ANR Seminar <i>Robustness to Perturbations of the Gibbs Potential.</i>	Online	2025
★ Institut Fourier Probability Seminar <i>Computer-Powered Chaos in Lattice Models.</i>	Grenoble, France	2025
Midi-Combi Seminar <i>Computer-Powered Chaos in Lattice Models.</i>	Nancy, France	2025
★ CIRM 3002: Dynamics [...] of Quasicrystals <i>Computer-Powered Chaos in Lattice Models.</i>	Marseille, France	2024
★ CANA Seminar <i>Uniformly Chaotic Finite-Range Lattice Models.</i>	Marseille, France	2024
★ Rauzy Seminar and Pytheas Fogg Workshop <i>Uniformly Chaotic Finite-Range Lattice Models.</i>	Marseille, France	2023
★ DGC Team Day <i>A Short Hike Through Symbolic Dynamics (And the Random Noise Therein).</i>	Toulouse, France	2023
ANR IZES Workshop <i>Controlling the Chaos in Gibbs Measures.</i>	Bordeaux, France	2022
GTC <i>Computational Complexity of Chaotic Gibbs Measures.</i>	Nancy, France	2022
PIMS Probability Seminar, UBC <i>A Short Hike Through Symbolic Dynamics (And the Random Noise Therein).</i>	Vancouver, Canada	2022
SDA2 & Dyadisc5 <i>Controlling the Chaos in Gibbs Measures.</i>	Liège, Belgium	2022
★ JCB <i>A Short Hike Through Symbolic Dynamics (And the Random Noise Therein).</i>	Bordeaux, France	2022
★ CAMS Seminars <i>A Short Hike Through Symbolic Dynamics (And the Random Noise Therein), From Noisy Tilings to Computable Analysis.</i>	Beirut, Lebanon	2022
★ Institut Fourier Probability Seminar <i>A Short Hike Through Symbolic Dynamics (And the Random Noise Therein).</i>	Grenoble, France	2022
GTC <i>The Stability of Noisy Tilings in the Arithmetical Hierarchy.</i>	Nice, France	2021
ANR DIMERS Day <i>An Autumn Stroll Among Random Tilings.</i>	Paris, France	2021
Automata & WAN <i>The Besicovitch-Stability of Noisy Tilings is Undecidable.</i>	Marseille, France	2021
EJCIM <i>On the Besicovitch-Stability of some Noisy Subshifts of Finite Type.</i>	Online	2021
CIRM 2565: ALEA Days <i>On the Besicovitch-Stability of some Noisy Subshifts of Finite Type.</i>	Online	2021

PUBLICATIONS

Non-Robustness of the Zero-Temperature-Limit Gibbs Measures to Perturbations of the Potential, with Mathieu Sablik. Publication ongoing.	2025
Characterisation of the Set of Ground States of Uniformly Chaotic Finite-Range Lattice Models, with Mathieu Sablik and Siamak Taati. <i>Nonlinearity</i> 38:7 (2025).	2023
Arithmetical Hierarchy of the Besicovitch-Stability of Noisy Tilings, with Mathieu Sablik. <i>Theory of Computing Systems</i> 67 (2023).	2022
The Besicovitch-Stability of Noisy Tilings is Undecidable. Exploratory paper accepted in <i>Automata</i> 2021.	2021
On the Besicovitch-Stability of Noisy Random Tilings, with Mathieu Sablik. <i>Electronic Journal of Probability</i> 28 (2023).	2021

ROLES

Workshop of the ANR-PRCI Thermogamas. I organised the workshop at the scientific level (program and speakers), and the logistics (booking a room, obtaining supplementary funding...).	2026
PÉDI (Parity Equity Diversity Inclusion) Comity of the GDR-IFM. I represent the SDA2 and Computability workgroups in the comity. I am also the webmaster of our webpage on the GDR website, where one can find more details on our actions.	2025 – Present
Steering and Organisation Committee of the <i>Scienc·e·s Conference</i> .	2025 – Present

STUDENTS

Vivien Ducros, PhD co-directed with Emmanuel Jeandel. <i>Graphical Approach of Symbolic Dynamics</i> .	2025 – 2028(?)
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PEER-REVIEW WORK

UCNC	2025
WORDS	2025

POSITIONS

INRIA Researcher At the <i>Laboratoire Lorrain de Recherche en Informatique et ses Applications, Université de Lorraine.</i>	Nancy, France	2024–Present
Postdoc Amidex At the <i>Institut de Mathématiques de Marseille, Aix-Marseille Université.</i>	Marseille, France	2024
Doctoral Researcher At the <i>Institut de Mathématiques de Toulouse, Université Paul Sabatier.</i>	Toulouse, France	2020–2023
Normalien (Civil Servant Trainee) At the <i>ENS de Lyon.</i>	Lyon, France	2015–2020

RESEARCH STAYS

Department of Mathematics and Statistics, UVic Four weeks research stay with Anthony Quas.	Victoria, Canada	2022
CAMS, AUB Four weeks research stay with Siamak Taati.	Beirut, Lebanon	2022
LIPN Four months internship on the <i>phase transition in Penrose tilings</i> , tutored by Thomas Fernique and Mathieu Sablik.	Villetaneuse, France	2020
LIG One semester internship on <i>potential games with partial interactions</i> , tutored by Bruno Gaujal and Federica Garin.	Grenoble, France	2019
Graduate School of Science Three months summer internship on the <i>filtration determination problem of a random walk driven by a mapping law on a finite directed graph</i> , tutored by Kouji Yano.	Kyoto, Japan	2017
Université Paris-Dauphine Six weeks summer internship on the <i>long term study of the Markov Decision Processes</i> , tutored by Bruno Ziliotto and Xavier Venel.	Paris, France	2016

CONFERENCE VISITS

20th anniversary of the GDR-IFM	Paris, France	2026
Forum of the young mathematicians	Bordeaux, France	2025
CCR & GTC	Bordeaux, France	2025
Dynamical Systems Workshop	Porquerolles, France	2025
Scienc-e-s: no science without us!	Toulouse, France	2024
INRIA Foresight Seminar	Paris, France	2024
Probabilities in Theoretical Computer Science	Paris, France	2024
Thematic Month Dynamics & Complexity	Marseille, France	2024
Probability and Dynamics	Roscoff, France	2023
SDA2	Toulouse, France	2023
CIRM 2887: ALEA Days	Marseille, France	2023
CIRM 2313	Marseille, France	2021

ONLINE CONFERENCES

Undone Computer Science	2026
CIRM 2696: ALEA Days	2022
CIRM 2537: New Directions in Computability	2022
Dyadisc4	2021
JCB	2021
SDA2	2020
EJCIM	2020

EDUCATION

MCF Qualification		2024
A mandatory accreditation to apply to long-term teaching positions in French academia. Obtained both for mathematics and computer science.		
Université Paul Sabatier	Toulouse, France	2020–2023
Mathematics PhD, tutored by Mathieu Sablik, on the <i>robustness of tilings and cellular automata under random perturbations</i> .		
Université Paris-Saclay	Orsay, France	2019–2020
<i>Master de Mathématiques</i> , obtained in 2020 with 17.18/20 (equivalent to a mathematics M.Sc. with highest honors).		
École Normale Supérieure	Lyon, France	2015–2020
A leading institution of higher education, entrance to which is based on a competitive examination. <i>Nouveau diplôme de l'ENS de Lyon</i> , obtained in 2020 (school honorary diploma, equivalent to a M.Sc.), <i>Master d'Informatique Fondamentale</i> , obtained in 2019 with 17.15/20 (equivalent to a theoretical C.S. M.Sc. with highest honors), <i>Agrégation de Mathématiques, option D</i> passed in 2018 in 8 th position (competitive teaching examination), <i>Master FEADÉP Mathématiques</i> obtained in 2018 with 17.33/20 (preparation to the Agrégation, equivalent to a math teaching M.Sc. with highest honors), <i>Licence de Mathématiques</i> , obtained in 2016 with 16.64/20 (equivalent to a mathematics B.Sc. with highest honors).		
Lycée Michel de Montaigne	Bordeaux, France	2013–2015
<i>Classes Préparatoires</i> , a two years intensive course preparing the entrance to <i>Grandes Écoles</i> .		
Lycée Jean Lurçat	Perpignan, France	2010–2013
<i>Baccalauréat Scientifique, spécialité Mathématiques, mention Très Bien</i> with 17.5/20, (equivalent to a High school diploma with highest honors).		

TEACHING EXPERIENCE

TP d'introduction à la théorie des probabilités (practical classes of probability theory, 24h), plus creation of teaching material (using Jupyter Notebook), in <i>L2 de mathématiques</i> (second year Math undergrad class) at UT3.	2022–2023
Tutoring of two L3 (last year of undergrad) interns at UT3, on the <i>simulation of a randomised Socolar tiling using the Monte-Carlo method</i> .	2022
TP de bases de données (practical classes of SQL, 30h), in <i>L2 d'informatique</i> (second year Computer Science undergrad class) at UT3.	2022
TD et TP d'Outils Mathématiques Discrètes (tutorial and practical classes, 36h), in <i>L1 maths et informatique</i> (first year Math and C.S. undergrad class) at UT3.	2021
Colles d'intégration et de groupes (oral examinations, 10h), in <i>M2 Agrégation</i> (second year Math Teaching graduate class) at UT3.	2021
TP de structures de données en C (practical class on data structures, 28h), in <i>L2 d'informatique</i> (second year Computer Science undergrad class) at UT3.	2021
TD de mathématiques (tutorial class, 30h), in <i>L1 de sciences appliquées</i> (first year Applied Science undergrad class), at <i>Université Toulouse III Paul Sabatier</i> (UT3) in Toulouse, France.	2020
Oral examinations in <i>Classes Préparatoires</i> .	2018–2019
Tutoring of a freshman undergrad student.	2017–2018

LANGUAGE SKILLS

Native in French,
Proficient in English, with a *Cambridge English Advanced* C2 level certification,
Intermediate Spanish, B2 level,
Intermediate Japanese, B1 level.

COMPUTER SKILLS

Python (NumPy, Matplotlib, Jupyter Notebook),
Markdown,
GitLab,
L^AT_EX,
Shell,
SQL,
C.

MISCELLANEOUS

President of the ENS Japanese Animation Club	2017–2019
I organised a weekly screening on various themes chosen within japanese animation.	

Viola da Gamba Player	2004–Present
I developed creative and musical skills and contributed in a dozen of group concerts.	

<i>Brevet d'études musicales</i> (intermediate music theory diploma), in the CRR music conservatory in Perpignan.	2002–2010
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