Alice Bouillet

Post-doctoral researcher at ENS Lyon

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Education

2020 – 2023	**PhD in Fundamental Mathematics**, *University Rennes 1*, Rennes. Advisor : Matthieu Romagny - Modules of the subgroups of a finite group scheme in characteristic p>0
2019 – 2020	**Second year of Master of Mathematics**, *University Rennes 1*, Rennes. Fundamental research - Algebra and geometry
2018 – 2019	**Professional Teaching qualification in Mathematics (in French : Agrégation)**, *ENS Rennes and University Rennes 1*, Rennes.
2017 – 2018	**First year of Master of Mathematics**, *University Rennes 1*, Rennes.
2016 – 2017	**Third year of Bachelor of Mathematics**, *University Rennes 1*, Rennes.
2015 – 2016	**Erasmus year**, *University College Cork*, Ireland.
2014 – 2015	**Second year of Bachelor of Mathematics**, *University Rennes 1*, Rennes.
2013 – 2014	**First year of Bachelor of Mathematics**, *University Rennes 1*, Rennes.

Distinctions

2016 – 2017	**Lebesgue's grant**, *University Rennes 1*.

Publication

2023	**Moduli of p-Lie algebras**, Published in *Manuscripta mathematica*. Arxiv version here..

Other research activities

From May 2022	**Reviewer, for zbMATH**.

Talks

May 2023	**Angers**, *Topology and algebraic geometry seminar*.
Jan. 2023	**Charmey**, *12th Swiss-French Workshop in Algebraic Geometry*.
Nov. 2022	**ICJ Lyon**, *Algebra seminar*.
June 2022	**IMB Bordeaux**, *Seminar of Number theory*.
May 2022	**Dijon**, *Spring School "Invariants in Algebraic Geometry"*.
May 2022	**Angers**, *PhD student's seminar*.
April 2022	**Paris 13**, *PhD student's seminar*.
March 2022	**IRMAR Rennes**, *Seminar of arithmetical geometry*.
March 2021	**IRMAR Rennes**, *PhD student's seminar*.

Responsabilities

March 2023	**University of Rennes 1**, *Co-organizer of the day "Egality and sciences : the role of women" : more information here*.
2021 – 2023	**University of Rennes 1**, *PhD students representative in the Laboratory Council (IRMAR)*.
2021 – 2022	**University of Rennes 1**, *Co-organizer of the conference "Rencontres doctorales Lebesgue"*.
2021 – 2022	**University of Rennes 1**, *Co-organizer of the doctoral student seminar in algebra and geometry*.
2020 – 2023	**Member of the parity commission of IRMAR**.

Teaching

2022 – 2023	**Private lessons for a student in third year of bachelor of mathematics**, *University of Rennes 1*, Group theory, bilinear and linear algebra.
2020 – 2023	**Examiner for oral exam for master degree (Agrégation)**, *University Rennes 1*, Rennes.
2020 – 2023	**Examiner for oral exam for master degree (CAPES)**, *University Rennes 1*, Rennes.
2020 – 2023	**Several tutorials**, *University Rennes 1*, Rennes, 64 hours per year.
	Bachelor of Mathematics and Physics : function linear algebra, series expansion, integration theory, differential equations.
2019 – 2020	**Examiner oral exam for Bachelor (in French : dans une classe CPGE de MP*)**, *Lycée Chateaubriand, Rennes*, all basic analysis and algebra of first year of universiy.
2019 – 2020	**Tutorials in algebra**, *INSA*, Rennes.
	Engineer school. Linear algebra and differential equations.
Jan-Mar 2015	**Didactic internship in middle school**, *Collège La Providence*, Montauban-de-Bretagne.
Since 2008	**Private lessons of Mathematics**.
	All levels from elementary school to high school.

Internship

April-July 2020	**Research internship for Master thesis**, *University Rennes 1*.
	Advisor : Matthieu ROMAGNY
	Characterisation of algebraic groups from their Frobenius kernels
January 2020	**Research internship**, *University Rennes 1*.
	Advisor : David BOURQUI
	Nagata's counter example of Hilbert's 14th problem
April-May 2018	**Research internship**, *University Rennes 1*.
	Advisor : Benoît CLAUDON
	Arithmetic of elliptic curves, Mordell Weil's theorem
June-July 2017	**Research internship**, *University Rennes 1*.
	Advisor : David BOURQUI
	Introduction to algebraic geometry : algebraic varieties

Experiences in relation to Mathematics

October 2022	**Science day**, *Popularization of mathematics*.
Nov. 2021	**Meeting of Young female Mathematicians and Computer Scientists**, *Speaker, and presentation of a workshop on stereotypes*, ENS Rennes.
April 2021	**French competition of young mathematiciens**, *Examiner*.
Year 2021	**Women in Maths day**, *Godmother of a schoolgirl for the whole academic year*, the goal is to help her in her orientation choices ; support her to do scientific studies if she wants to ; show her all the jobs she can do related to maths/sciences.
2020/2021/2022	**Women in Maths day**, *Speaker*.
January 2021	**Teaching in primary school**, *Helping pupils for a mathematical contest*.
2017 – 2019	**Proofreading of a maths book, level : master**, *"Pour L'oral à l'agrégation de Mathematics - Une sélection de développements"*, Lucas ISENMANN, Timothée PECATTE, Ellipses, ISBN : 978-2340035270.

Other experiences

2012 – 2019	**Seasonal works**, *Food factory, shop and restaurant*.

Other skill

IT Programmes	SageMath, LATEX, Macaulay2
Languages	French, English
Formations	First aid training

Hobbies

Music	Accordion
Sport	Badminton, climbing, bouldering, biking, paraglider
Other	Boardgames