William SAREM

Office 113
Institut Fourier
100, rue des maths
38610 Gières

Year of birth: 1999
French nationality

Email address : william.sarem@univ-grenoble-alpes.fr

Education

2023 − ...	PhD Student at Institut Fourier, Grenoble Alpes University, supervised by Pierre Py. Title: Complex hyperbolic geometry and uniformization.
2019 − 2023	Student at École Normale Supérieure de Lyon.
2021 − 2022	Master's degree in Pure Mathematics (University of Strasbourg).
2019	Bachelor's degree in Applied Mathematics (Paris Dauphine University).
2017 − 2019	CPES Multidisciplinary Undergraduate degree: Bachelor's degree in Mathematics (Paris Sciences et Lettres University).

Recent Research internships

2023	6-month internship at Rennes University under the supervision of Christophe Dupont. Subject: Holomorphic properties of complex hyperbolic manifolds.
2022	4-month internship at ETH Zürich under the supervision of Marc Burger. Subject: Non-uniform lattices of $PU(n,1)$.
2022	4-month internship at Strasbourg University under the supervision of Pierre Py. Subject: Stein manifolds and subgroups of $PU(n,1)$.
2021	3-month internship at Bayreuth University under the supervision of Mihai Păun. Subject: Hodge theory and applications.
2020	6-week internship at Strasbourg University under the supervision of Pierre Py. Subject : Milnor's fibration.

Preprint

2023	Curvature properties and Shafarevich conjecture for toroidal compactifications of ball quotients (arXiv).

Talks

June 2023	Analytic Geometry Seminar, IRMAR, Rennes. Title: Propriétés de courbure et conjecture de Shafarevich pour les compactifications toroidales de quotients de la boule.
June 2023	Short talk: Alpine meeting on nonpositive curvature in Kähler geometry, Aussois. Title: Curvature properties for toroidal compactifications of ball quotients.
March 2023	PhD seminar: Pampers, IRMAR, Rennes. Title: La formule de Matsushima.
Decem. 2022	PhD seminar: Geometry Graduate Colloquium, ETH Zürich. Title: Harmonic forms and cohomology in smooth (complex) manifolds.
June 2022	GT3 seminar, IRMA,Strasbourg. Title: Variétés de Stein et sous-groupes de $PU(n,1)$.

Attended conferences

July 2023	Lattices in Negative Curvature, Les Diablerets.
June 2023	Alpine meeting on nonpositive curvature in Kähler geometry, Aussois.
July 2022	Complex Hyperbolic Geometry and Related Topics, CIRM, Marseille.

Teaching

2023	MAT101: Mathematical Language, Elementary Algebra and Geometry, 32h, Lectures and Tutorials, Grenoble Alpes University.

Languages spoken

French	Native speaker
English	Fluent