Suzanne Schlich

Post-doctoral fellow

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Employment

2024 – 2026   **Post-Doc**, *Università degli Studi di Torino*, Dipartimento di Matematica "Giuseppe Peano", ERC GENERATE, visiting the Institut Fourier, Grenoble in 2024/2025
Mentor : Andrea Seppi

2023 – 2024   **Post-Doc**, *Université Grenoble Alpes*, Institut Fourier, ANR "GAPR: Geometry and Analysis in the Pseudo-Riemannian setting"
Mentor : Andrea Seppi

Education

2019 – 2023   **PhD in Mathematics**, *Université de Strasbourg, Université de Lille*, IRMA, Laboratoire Paul Painlevé
Title : *Primitive-stable and Bowditch actions on hyperbolic spaces.*
Supervised by François Guéritaud.
Defended September 15, 2023.

2018 – 2019   **Master in Pure Mathematics**, *Sorbonne Université, École Normale Supérieure Paris-Saclay*

2017 – 2018   **Agregation of mathematics**, *École Normale Supérieure Paris-Saclay*, admitted (rank 22/315)
Higher-education teaching competition, Option : Probability and Statistics

2014 – 2015   **Bachelor in Mathematics**, *École Normale Supérieure Paris-Saclay, Université Paris-Diderot*

2011 – 2014   **Preparatory class**, *Lycée Janson de Sailly, Paris*
Mathematics, Physics and Computer Science

(Pre)-publications

- **Bowditch representations in Gromov-hyperbolic spaces : characterizations, dynamics of $\mathrm{Out}(\mathbb{F}_2)$ and recognition**, *Suzanne Schlich*
  `https://arxiv.org/abs/2511.10551`

- **Simple-stable and Bowditch representations of the four-punctured sphere group in Gromov-hyperbolic spaces**, *Suzanne Schlich*
  `https://arxiv.org/abs/2503.21859`

- **Equivalence of primitive-stable and Bowditch actions of the free group of rank two on Gromov-hyperbolic spaces**, *Suzanne Schlich*
  `https://arxiv.org/abs/2211.14546`

Teaching

Université de Strasbourg

2023   **Algebra**, *2nd year*, 33h, tutorials

       Basis for calculation and reasoning, *1st year*, 32h, lectures and tutorials

2022   **Elementary mathematics**, 1st year, 20h, lectures and tutorials

Basis for calculation and reasoning, 1st year, 32h, lectures and tutorials	
2021	**Elementary mathematics**, 1st year, 20h, lectures and tutorials
	Oral examination, 1st year, 1h
	Basis for calculation and reasoning, 1st year, 24h, lectures and tutorials
	Mathematics for Life Sciences, 1st year, 34h, tutorials

Université de Lille

2020	**Algebra**, 1st year, 24h, tutorials
2019	**Analysis for Life Sciences**, 1st year, 40h, lectures and tutorials

Oral interrogations in preparatory schools

2016 – 2019	**Oral examinations**, *Lycée Janson de Sailly, Paris*, MPSI, 2h per week

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Talks

March 2025	**Séminaire Géométrie, Algèbre, Dynamique et Topologie**, *Dijon*
December 2024	**Conference "Arithmetic groups, hyperbolic manifolds and computation"**, *Bordeaux*
November 2024	**Séminaire Géométrie, groupes et dynamique**, *ENS Lyon*
September 2024	**Séminaire virtuel francophone "Groupes et géométrie"**, *online*
September 2024	**Séminaire de Géométrie et Topologie**, *Toulouse*
September 2024	**Meeting Milano-Grenoble-Torino**, *Milano*, Italy
June 2024	**Séminaire Compréhensible**, *Grenoble*
April 2024	**Geometry MMA Seminar: Metrics, Measures, and Algorithms**, *George Mason University*, Washington, USA
April 2024	**Geometry Seminar**, *University of Virginia*, Charlottesville, USA
March 2024	**Séminaire de Géométrie**, *Bordeaux*
March 2024	**Geometry Seminar**, *Max Planck Institute, Leipzig*
November 2023	**Forum des jeunes mathématicien·nes**, *Bruxelles*
November 2023	**Paroles aux jeunes chercheurs et chercheuses du GDR Platon**, *Grenoble*
October 2023	**Séminaire Géométrie Dynamique**, *Lille*
October 2023	**Séminaire Géométrie et Topologie**, *Paris*
June 2023	**Geometry Day**, *Heidelberg*
June 2023	**NCNGT Conference**, *Online*
June 2023	**Séminaire GT3**, *Strasbourg*
Febuary 2023	**Workshop ANR GAPR "Géométrie et Analyse dans le cadre pseudo-Riemannien**, *Nice*
January 2023	**Séminaire Rauzy**, *Marseille*
December 2022	**Geometry and Topology seminar**, *Luxembourg*
November 2022	**Séminaire ATG**, *Nice*
July 2022	**AMS-EMS-SMF International Meeting**, *Grenoble*
June 2022	**Séminaire des doctorants**, *Lille*
April 2022	**Séminaire des doctorants**, *Strasbourg*
August 2021	**Workshop on Anosov representations**, *Centre Paul Langevin, Aussois*

Attended conferences

September 2025	**Higher dimentional hyperbolic geometry**, *Ventotene*, Italy
July 2025	**Summer school on Discrete Subgroups of Lie Groups**, *IHES, Paris*, France
June 2025	**Conference Low-dimensional phenomena: geometry and dynamics**, *IHP, Paris*, France
June 2025	**Workshop on Dynamics and geometry in dimension 1, 2 and 3**, *CIRM, Marseille*, France
May 2025	**Higher rank geometric structures, Higgs bundles and physics**, *IHP, Paris*, France
April 2025	**Introductory school of the IHP programm Higher Rank Geometric Structures**, *CIRM, Marseille*, France
January 2025	**Winter School**, *Nice*
December 2024	**Arithmetic groups, hyperbolic manifolds and computation**, *Bordeaux*
November 2024	**Paroles aux jeunes chercheurs et chercheuses du RT tétraèdre de Platon**, *ENS Paris*
October 2024	**20 years of Anosov representations**, *Leipzig*, Germany
September 2024	**Meeting Milano-Grenoble-Torino**, *Milano*, Italy
August 2024	**Workshop Component of character varieties**, *Aussois*, France
July 2024	**Moving to higher rank: from hyperbolic to Anosov**, *Cetraro*, Italy
April 2024	**Submanifolds of locally symmetric spaces: geometric, analytic and dynamical aspects**, *Autrans*, France
March 2024	**Workshop on dynamics and hyperbolic groups**, *Max Planck Institute*, Leipzig
November 2023	**Forum des jeunes mathématicien·nes**, *Bruxelles*
November 2023	**Paroles aux jeunes chercheurs et chercheuses du GDR Platon**, *Grenoble*
August 2023	**Workshop on "Metrics on higher Teichmüller spaces"**, *Villa Clythia*, Fréjus
Febuary 2023	**Workshop ANR GPR "Géométrie et Analyse dans le cadre pseudo-Riemannien**, *Laboratoire Jean-Alexandre Dieudonné*, Nice
August 2022	**Workshop on "Minimal surfaces in symmetric spaces and Labourie's conjecture"**, *L'Escandille*, Autrans
July 2022	**AMS-EMS-SMF International Meeting 2022**, Grenoble
January 2022	**Young Researcher's Workshop on Positivity in Lie Groups**, *IWH*, Heidelberg
November 2021	**Rencontre des jeunes chercheuses et jeunes chercheurs du GDR Platon**, *CIRM*, Marseille
September 2021	**Workshop on "Anosov representations"**, *Centre Paul Langevin*, Aussois
June 2021	**Dynamics and Geometry Online Summer School**, *Heilbronn Institute for Mathematical Research*
January 2021	**Topics at the Interface of Low Dimensional Group Actions and Geometric Structures**, *Singapour (onligne)*
November 2019	**Paroles aux jeunes chercheur·es en Géométrie et Dynamique**, *Institut Élie Cartan*, Nancy
October 2019	**Forum des Jeunes Mathématicien-ne-s, Géométrie et interactions**, *IHP, Paris*, France
July 2019	**Summer School Aspects of Geometric Group Theory**, *IHES, Paris*, France

Outreach, organization and administrative activities

May 2025	**Jury TFJM^2**, *Lyon*, France
2024	**(Co)-organizer of a Young Researcher Workshop**, *Aussois, France*, August 26th-31th, 2024, Title "Components of character varieties" `https://sites.google.com/view/componentsinaussois/home`
April 2023	**Intervenante RJMI**, *IRMA*, Strasbourg Speed-Meeting workshop
2017 – 2018	**Elected to the board of the ENS Paris-Saclay** Student representative of the school
2015 – 2017	**Elected to the Student Life Commission of the ENS Paris-Saclay** Student representative of the Department of Mathematics

Other skills

Languages	**French (mother tongue), English (fluent), German & Italian (notions)**
Programming	**Python, Matlab, LATEX, Scilab, Caml, Maple**
Music	**DEM (Diploma in Music Studies) in musical writing**, *CRR Paris*, 2019
	DEM (Diploma in Music Studies) in musical analysis, *CRR Paris*, 2017
	CFEM (Certificate of Musical Studies) in accordion, *CRR Dijon*, 2011