

# Blandine Galiay

## Curriculum Vitae

✉ [galiay@ihes.fr](mailto:galiay@ihes.fr)

### Education

- 2022–2025 **PhD in Mathematics**, *IHES (Institut des Hautes Etudes Scientifiques)*, Bures-sur-Yvette (France), supervised by Fanny Kassel.  
Title: "Convex cocompactness in flag manifolds"
- 2021–2022 **Master 2 AAG (Analysis, Arithmetic, Geometry)**, *Paris-Saclay University*, Orsay (France).
- 2021 **Agrégation externe de mathématiques**, *Rank: 18*.  
Competitive French national qualification for teaching advanced mathematics.
- 2020–2021 **Master 2 in Higher Education Teaching**, *ENS Paris-Saclay*, Gif-sur-Yvette (France).
- 2019–2020 **Master's degree in Mathematics and Applications**, *ENS Paris-Saclay, Université Paris-Saclay and Ecole Polytechnique*, Jacques Hadamard track.
- 2018–2019 **Bachelor's degree in Mathematics**, *ENS Paris-Saclay*, Cachan (France).
- 2016–2018 **Preparatory class MPSI-MP**, *Lycée Charlemagne*, Paris (France), Option computer science.

### Publications and Preprints

- 2024 **Proper quasi-homogeneous domains of the Einstein Universe**, *A. Chalumeau & B. Galiay*, arXiv:2407.18577.
- 2024 **Rigidity of proper quasi-homogeneous domains in positive flag manifolds**, *B. Galiay*, arXiv:2407.18747.
- 2022 **Lattices in the four-dimensional split oscillator group**, *B. Galiay & I. Kath*, *Journal of Lie Theory*.

### Awards

- 2023 **Research excellence award**, *presented by the ENS Paris-Saclay*, Graduation ceremony.
- 2021 **Maryam Mirzakhani Junior award (fundamental mathematics)**, *presented by the Jacques Hadamard Mathematics foundation*, for the Master 1 research internship "Lattices in the four-dimensional oscillator group of signature (2,2)".

### Research internships

- 2022 **Master 2 research internship**, *IHES (Bures-sur-Yvettes, France)*, Duration: 5 months, supervised by Fanny Kassel.  
Title: "Divisible convex sets in flag manifolds".

- 2020 **Master 1 research internship**, *Greifswald University (Greifswald, Germany)*, Duration: 3 months, supervised by Ines Kath.  
Title: "Lattices in the four dimensional oscillator group of signature (2,2)".
- 2019 **Bachelor research internship**, *CMLA (Cachan, France)*, Duration: 3 months, supervised by Argyris Kalogeratos.  
Title: "Sequential selection processes over graphs".

## Teaching and pedagogy

- 2024 **Teaching assistant in several variables functions**, *Mathematics courses for second-year students*, at Paris-Saclay University (France).
- 2023 **Teaching assistant in Calculus**, *Mathematics courses for first-year students*, at Paris-Saclay University (France).
- 2022–2024 **Teaching assistant in algebra**, *Mathematics courses for first-year students*, at Paris-Saclay University (France).
- 2022 **Teaching assistant in Linear algebra**, *Mathematics courses for first-year students*, at Paris-Saclay University (France).
- 2022–2023 **Coordinator of MATH.en.JEANS Workshops**, *Weekly Research Workshops for High School Students*, at Blaise Pascal school (Orsay, France).
- 2019–2020 & 2021–2022 **Mathematics Oral Examiner for MPSI Preparatory Classes**, at Charlemagne school (Paris, France).
- 2019 & 2022 **Member of the TFJM<sup>2</sup> Jury**, *National Mathematics Contest for High School Students*.

## Recent and upcoming talks

- 17/10/2024 **PhD students' orientation day of IHES**, *IHES, Bures-sur-Yvette, France*.
- 8/10/2024 **Young Researcher's Workshop of the conference "20 years of Anosov representations"**, *Max Planck Institute, Leipzig, Germany*.
- 16/07/2024 **Lightning talk at the conference "Moving to higher rank: from hyperbolic to Anosov"**, *Birthday conference for R. Canary, Cetraro, Italy*.
- 14/05/2024 **Second-Year PhD Students' Seminar of the LMO**, *LMO, Orsay, France*.
- 09/04/2024 **PS-SNU Geometry/Topology Online Seminar**, *Seoul National University and Paris-Saclay University, Online*.
- 28/03/2024 **Geometry graduate colloquium**, *ETH, Zürich, Switzerland*.
- 26/02/2024 **Group actions and Dynamics seminar**, *University of Wisconsin, Madison, USA*.
- 22/11/2023 **Parole aux jeunes chercheuses et chercheurs du réseau Platon**, *Institut Fourier, Grenoble, France*.
- 09/2022 **Working group on relative Anosov representations**, *IHES, Bures-sur-Yvettes, France*.
- 05/2022 **Popular science presentation for High School Students**, *IHES, Bures-sur-Yvette, France*.

## Skills

- English** C2 Level
- French** Mother tongue

**German** B1 Level  
**IT skills**  $\LaTeX$ , Python