

Pénélope Azuelos

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Fry Building, School of Mathematics,
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Education

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| 2022 – present | University of Bristol, UK
<i>PhD in Mathematics (ongoing), supervised by Mark Hagen and Indira Chatterji</i> |
| 2021 – 2022 | École Normale Supérieure de Lyon, France
<i>Master (M2) Mathématiques Avancées</i> |
| 2017 – 2021 | University of Bristol, UK
<i>Master in Science in Mathematics (with first class honours)</i> |
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Preprints

- “On subgroups with narrow Schreier graphs”, arXiv:2402.19000.
“Perfect kernel and dynamics: from Bass-Serre theory to hyperbolic groups”, with Damien Gaboriau, arXiv:2308.05954.
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Teaching

Teaching assistant at the University of Bristol:

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| Spring 2024 | Introduction to proofs and group theory MATH10010 |
| Autumn 2023 | Combinatorics MATH30030 |
| Spring 2020 | Introduction to geometry MATH20004 |
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Talks

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| May 2024 | International Young Seminar on Bounded Cohomology and Simplicial Volume, “Topology and dynamics on the space of subgroups” |
| March 2024 | Seminar: GdT Action ! ENS de Lyon, “Un critère géométrique pour déterminer si un sous-groupe est une fibre virtuelle” |
| March 2024 | Conference: Rigidité en théorie des groupes : aspects géométriques et ergodiques, Université Paris-Saclay, “Un critère géométrique pour déterminer si un sous-groupe est une fibre virtuelle” |
| February 2024 | Cambridge Junior Geometry Seminar, “Ends of groups and related invariants” |
| December 2023 | Bristol Postgraduate Seminar, “Is it trivial? And other difficult problems” |
| November 2023 | Oxford Junior Topology and Group Theory Seminar, “Topology and dynamics on the space of subgroups” |
| September 2023 | Le séminaire virtuel francophone Groupes et Géométrie, “Topologie et dynamique de l'espace des sous-groupes” |
| May 2023 | Conference: Measured Group Theory, Stochastic Processes on Groups and Borel Combinatorics, CIRM Marseille, “Perfect kernels and dynamics: from Bass-Serre theory to hyperbolic groups” |
| January 2023 | Bristol Junior Geometry Seminar, “Subgroup spaces and actions on trees” |

Awards

2022 – 2026	University of Bristol PhD scholarship
2021 – 2022	MiLyon scholarship for an M2 masters program
2020	Summer research bursary funded by the Heilbronn Institute for Mathematical Research

Languages

English and French (native speaker)