Filippo Baroni

	Education
2021 -	DPhil , University of Oxford Advisor: Marc Lackenby
2016 - 2021	Student of mathematics at Scuola Normale Superiore di Pisa
2019 - 2021	Master's degree, University of Pisa Advisor: Carlo Petronio Degree thesis: Realisability of branching data with a short partition
2016 – 2019	Bachelor's degree, University of Pisa Advisor: Riccardo Benedetti Degree thesis: Singular homology of fibred spaces
	Publications and preprints
2024	"Uniformly polynomial-time classification of surface homeomorphisms" preprint (arXiv:2402.00231)
2024	"Classification of genus-two surfaces in S^3 ", accepted for publication in Algebraic & Geometric Topology
2024	"Solution of the Hurwitz problem with a length-2 partition" (with Carlo Petronio), in <i>Illinois Journal of Mathematics</i> 68.3, pp. 479-511
2022	"The Proportionality Principle via Bounded Cohomology", in <i>Bounded Cohomology and Simplicial Volume</i> (pp. 118–131), Cambridge University Press
	Invited speaker
Oct 2024	"BRIJGES seminar", University of Bristol Talk: Algorithmic classification of surface homeomorphisms
Jun 2024	"Geometry seminar", University College London Talk: Algorithmic classification of surface homeomorphisms
May 2024	"Junior geometry seminar", University of Cambridge Talk: Algorithmic classification of surface homeomorphisms
Apr 2024	"Manchester geometry seminar", University of Manchester Talk: Algorithmic classification of surface homeomorphisms
Apr 2024	"Purdue topology seminar", Purdue University Talk: Algorithmic classification of surface homeomorphisms
Jan 2024	"Log cabin workshop: Big mapping class groups", Young, AZ, USA

 $\begin{tabular}{ll} Talk: Actions on hyperbolic spaces \\ Nov 2023 & "DAGGER seminar", University of Warwick \\ \end{tabular}$

 ${\it Talk:}\ {\it Navigating}\ the\ curve\ graph\ with\ train\ tracks$

Jan 2023	Talk: The virtual fibring theorem
Mar 2022	"BabyGeometri seminar", University of Pisa Talk: An algorithm for unknot recognition
Feb 2021	"International young seminar on bounded cohomology and simplicial volume", online Talk: The proportionality principle via bounded cohomology
	Teaching

Apr–Jun 2024	Tutor for Pure maths, St Catherine's College, Oxford
Jan–Mar 2024	Tutor for Pure maths and Graph theory, St Catherine's College, Oxford
Oct–Dec 2023	Tutor for Pure maths, St Catherine's College, Oxford
Apr–Jun 2023	Tutor for Graph theory, St Catherine's College, Oxford
Jan–Mar 2023	Tutor for Low-dimensional topology and knot theory, University of Oxford
Oct–Dec 2022	Tutor for Set theory, University of Oxford
Oct–Dec 2022	Tutor for Graph theory, St Catherine's College, Oxford
Apr–Jun 2022	Tutor for Graph theory, St Catherine's College, Oxford
Jan–Mar 2022	Teaching assistant for Low-dimensional topology and knot theory, Uni-
	versity of Oxford
Oct–Dec 2021	Teaching assistant for Geometry of surfaces, University of Oxford

Updated on October 13, 2024.