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
2016 2010	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	${\it Uniformly\ polynomial-time\ classification\ of\ surface\ homeomorphisms}, \\ {\it preprint\ (arXiv:2402.00231)}$
2023	Classification of genus-two surfaces in S^3 , preprint (arXiv:2309.05387)
2024	Solution of the Hurwitz problem with a length-2 partition (with Carlo Petronio), in Illinois Journal of Mathematics 68.3, pp. 479-511
2022	The Proportionality Principle via Bounded Cohomology, in Bounded Cohomology and Simplicial Volume (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 Talk: Actions on hyperbolic spaces

Nov 2023 "DAGGER seminar", University of Warwick

 ${\bf Talk:} \ \ {\it The \ virtual \ fibring \ theorem}$

Talk: Navigating the curve graph with train tracks

Jan 2023 "Log cabin workshop: Surfaces in 3-manifolds", Young, AZ, USA

100 101	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, University of Oxford

Teaching assistant for Geometry of surfaces, University of Oxford

Feb 2021 "International young seminar on bounded cohomology and simplicial

Updated on October 9, 2024.

Oct-Dec 2021