## Filippo Baroni

Jan–Mar 2024

Oct–Dec 2023

Apr–Jun 2023

	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	Uniformly polynomial-time classification of surface homeomorphisms, preprint (arXiv:2402.00231)
2023	Classification of genus-two surfaces in $S^3$ , preprint (arXiv:2309.05387)
2023	Solution of the Hurwitz problem with a length-2 partition (with Carlo Petronio), preprint (arXiv:2305.06634)
2022	The Proportionality Principle via Bounded Cohomology, in Bounded Cohomology and Simplicial Volume (pp. 118–131), Cambridge University Press
	Invited speaker
Jan 2024	"Log cabin workshop: Big mapping class groups", Young, AZ, USA Talk: Actions on hyperbolic spaces
Nov 2023	"DAGGER seminar", University of Warwick Talk: Navigating the curve graph with train tracks
Jan 2023	"Log cabin workshop: Surfaces in 3-manifolds", Young, AZ, USA Talk: The virtual fibring theorem
Mar 2022	"Seminario BabyGeometri", 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

Tutor for Pure maths and Graph theory, St Catherine's College, Oxford

Tutor for  $Pure\ maths,\ St\ Catherine's\ College,\ Oxford$ 

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
Oct–Dec 2021	Teaching assistant for Geometry of surfaces, University of Oxford

Updated on February 2, 2024.