

Filippo Baroni

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🌐 [filippobaroni.github.io](https://github.com/filippobaroni)

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

- 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

- May 2023 “Junior topology and group theory seminar”, *University of Oxford*
Talk: *A brief history of virtual Haken*
- Jun 2022 “Junior topology and group theory seminar”, *University of Oxford*
Talk: *Existence of branched coverings of surfaces*
- 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

- 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 <i>Low-dimensional topology and knot theory</i> , University of Oxford
Oct–Dec 2022	Tutor for <i>Set theory</i> , University of Oxford
Oct–Dec 2022	Tutor for <i>Graph theory</i> , St Catherine’s College, Oxford
Apr–Jun 2022	Tutor for <i>Graph theory</i> , St Catherine’s College, Oxford
Jan–Mar 2022	Teaching assistant for <i>Low-dimensional topology and knot theory</i> , University of Oxford
Oct–Dec 2021	Teaching assistant for <i>Geometry of surfaces</i> , University of Oxford