## Vanessa Emily Ryborz

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Education	
Oct 2022-current	<b>DPhil in Mathematics,</b> <i>University of Oxford, Christ Church College, Oxford</i> under the supervision of Prof. Andrea Mondino.
Oct 2021-Jun 2022	Master's Degree in Mathematics, University of Cambridge, Trinity College, Cambridge First Class Honours with Distinction. Essay: Obstructions to embeddings in the coarse geometry of Banach
Oct 2018-Aug 2021	Bachelor's Degree in Mathematics, Rheinische Friedrich-Wilhelms Universität Bonn, Bonn (Germany) Final grade 1.1 (excellent). Thesis: Properties of solutions of a system of partial differential equations with singular data Supervisor: Prof. Sergio Conti
Sep 2010 – Jun 2018	Abitur, Hardtberg-Gymnasium, Bonn (Germany) Bilingual French-German Abitur. Final grade: 1.0

## Employment

Oct 2022- Dec 2023	University of Oxford, Oxford
	Graduate Teaching Assistant Functional Analysis I,
	Functional Analysis II, Distribution Theory.
Oct 2020 - Aug 2021	Student Assistant, Research Institute for Discrete Mathematics, Bonn
	(Germany)
	Programming for a project in a cooperation with Greenplan to
	optimize the parcel delivery of the German mailing service.
Apr 2020 – Mar 2021	Student Assistant, Hausdorff Center for Mathematics, Bonn (Germany)
	Organising mathematical workshops and competitions for high school
	students.
Oct 2019 – Apr 2020	<b>Student Assistant, Institute for Applied Mathematics,</b> <i>Bonn (Germany)</i>
	Tutor for Analysis I.

## **Funding and Awards**

Oct 2022- current	Mathematical Institute Scholarship, University of Oxford, Oxford
	Merit-based Scholarship, awarded by the Mathematical Institute of the
	University of Oxford, covering the full tuition and living costs for 4 years.
Oct 2021 – Jun 2022	Part III International Scholarship, University of Cambridge, Cambridge
	Merit-based scholarship awarded by the Faculty of Mathematics of the
	University of Cambridge.
2021	Award for the best graduates of the academic year 2020/2021 in
	Mathematics in Bonn, Rheinische Friedrich-Wilhelms Universität Bonn,
	Bonn (Germany).
Mar 2019-Jun 2022	Scholarship from the German Academic Scholarship Foundation, Germany

2018	National Mathematical Competition, Germany, First prize in the second round.
2018	Abiturpreis der Deutschen Mathematikervereinigung, Germany Prize for one of the best Abitur exams in Mathematics awarded by the
2017	German Mathematician Association. Hans Riegel Fachpreis, Rheinische Friedrich-Wilhelms Universität Bonn, Bonn (Germany)
2017	Second prize for my high school thesis in Mathematics. German Mathematical Olympiad, Silver Medal.
Research stays	
01/2025-04/2025	<b>Metric Analysis,</b> Trimester program at the Hausdorff Institute for Mathematics, Bonn, Germany
Publications	
2024	with Andrea Mondino, <i>On the equivalence of distributional and synthetic</i> <i>Ricci curvature lower bounds,</i> Preprint arXiv: 2402.06486
Invited Talks	
03/2025	Metric Analysis Trimester Program Seminar, Hausdorff Institute for Mathematics. Bonn. Germany
01/2025 03/2024	DIANA Seminar, Universität Wien, Vienna, Austria Oxbridge PDE conference, Oxford, United Kingdom
Contributed Talks	
09/2024	School and conference on Metric Measure Spaces, Ricci curvature, and Optimal Transport, Villa Monastero, Lake Como, Italy
Voluntary work	
2017-2025	German Mathematical Olympiad, teaching at training camps, marking exams.
Skills	
Programming	C++
Languages	German (native), English (C1), French (B2, bilingual French German Abitur), Spanish (B1)