

# OLIVER SINGH

## Personal Information

---

DATE OF BIRTH: 25<sup>th</sup> March 1995  
EMAIL: oliver.s.singh@gmail.com  
PHONE: +447443656430

## Education

---

OCT. 2017 to Present	<b>University of Durham</b> <i>PhD in Mathematics</i> Research in Low dimensional topology, under the supervision of Dr. Andrew Lobb and Dr. Mark Powell. Funded by an EPSRC grant.
OCT. 2013 to JUN. 2017	<b>University of Cambridge, Mathematical Tripos</b> <i>BA with MMath, First Class + Distinction</i> Distinction in part III and first class in part II.
SEPT. 2011 to JUL. 2013	<b>St. Aidan's &amp; St. John Fisher Associated Sixth Form</b> A-Levels in Mathematics <b>A*</b> , Further Mathematics <b>A*</b> and Physics <b>A*</b> . AS-Level Chemistry, <b>A</b> . STEP: Paper I <b>S</b> , Paper II <b>S</b> , Paper III <b>1</b> .

## Experience

---

JAN. 2021 to MAR. 2021	<b>Max-Planck-Institut für Mathematik</b> <i>Visiting Researcher</i> Visiting the mathematics research institute in Bonn, Germany, to carry out collaborative research in low-dimensional topology.
JUN. 2020 to DEC. 2020	<b>Cabinet Office - COBR, COVID-19 Taskforce</b> <i>Grade 7 - Senior Analyst, Data Scientist</i> Surge hire during the COVID-19 crisis. Initially working for CCS and COBR, I directly contributed to briefings for the prime minister, ministers, and senior officials on the status of the pandemic. From August I worked within the Covid-19 taskforce, and worked on and managed data science projects (using Python and Git/GitHub). Throughout, I helped to run an intra-government COVID-19 dashboard, and designed and wrote a Python package used by analysts for the day to day running of the dashboard.
OCT. 2017 to Present	<b>University of Durham</b> <i>Teaching Assistant</i> Leading tutorials of 13-20 undergraduates in Analysis I, Topology II, and Algebra II. <i>Lecturer</i> Giving six hours of lectures for Algebraic Topology IV, covering for Dr. Mark Powell.

## Papers

---

- NOV. 2021 | *Pseudo-isotopies and diffeomorphisms of 4-manifolds*, Preprint, arXiv:2111.15658.
- MAY 2019 | *Distances Between Surfaces in 4-Manifolds*, Journal of Topology, 13. 1034-1057.

## Academic Talks

---

I have given talks on my research in person at the University of Geneva, the University of Sydney, the University of Cambridge, Durham University, and the Max Plank Institute for Mathematics. I have also given virtual talks for a number of geometry and topology seminars.

## Skills

---

Competent Python, experience working on and managing collaborative coding projects using Git and Git-flow. Experience with AWS cloud computing services. Competent L<sup>A</sup>T<sub>E</sub>X.