Oliver Singh

Personal Information

Date of Birth:	25th March 1995
Address:	Department of Mathematical Sciences, Durham University, Mountjoy Centre, Stockton Rd, Durham DH1 3LE.
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Research Interests

Low dimensional topology, smooth and topological 4-manifolds, and knotted surfaces. Knot theory, and categorification of knot invariants.

Education

Oct. 17 to Present | **University of Durham, PhD Student, Mathematics**
Research in Low dimensional topology, under the supervision of Dr. Andrew Lobb and Dr. Mark Powell. Funded by an EPSRC grant.

Oct. 13 to Jun. 17 | **University of Cambridge, Mathematical Tripos**
BA with MMath, First Class + Distinction
Distinction in part III and first class in part II. I was awarded a senior scholarship and a Stephen Hawking Fund Award.
Part III essay: Rational Knots and the Slice-Ribbon Conjecture, set and supervised by Dr. Jacob Rasmussen.

Papers

May 2019 | *Distances Between Surfaces in 4-Manifolds*, Preprint arXiv:1905.00763. Submitted.

Talks

Nov. 2019 | **University of Geneva, Topology and Geometry Seminar**
Knotted Surfaces in 4-manifolds and Distances Between Them.

Nov. 2019 | **University of Cambridge, Differential Geometry and Topology Seminar**
Knotted Surfaces in 4-manifolds and Distances Between Them.

Sept. 2019 | **University of Sydney, Geometry and Topology Seminar**
Knotted Surfaces in 4-manifolds and Distances Between Them.

Nov. 2018 | **University of Cambridge, Junior Geometry Seminar**
On Skein modules and Knots in 3-manifolds.

June 2018 | **Durham University, Student Geometry and Algebra Forum**
Trisections of 4-manifolds and Group Trisections.

Experience

Oct. 2017 to Present | **Teaching at University of Durham**
Leading tutorials: teaching classes of 13-20 undergraduates in Analysis I, Geometric Topology II and Algebra II.
Giving three lectures for the course Algebraic Topology IV, covering for Dr. Mark Powell.

Apr. 2017 | **Pearson Education**
Checking Pearson's Edexcel A-level maths maths textbook "Pure Mathematics Year 2" for mathematical accuracy.