

SHING TAK LAM

Mathematics Institute, University of Warwick
stl45@cantab.ac.uk (Permanent) Shing-Tak.Lam@warwick.ac.uk (Warwick)

EDUCATION

University of Warwick <i>Doctor of Philosophy (in progress)</i> PhD in Complex Differential Geometry supervised by Ruadhaí Dervan.	2025–28
University of Glasgow First year of PhD in Complex Differential Geometry supervised by Ruadhaí Dervan. Aligned student on the Algebra, Geometry and Quantum Fields CDT.	2024–25
University of Cambridge <i>Master of Mathematics</i> Courses in Algebra, Algebraic Geometry, Differential Geometry and Partial Differential Equations. Part III essay titled “Quantum cohomology and the Seidel representation” supervised by Jack Smith.	2023–24 <i>Distinction - 90%, ranked 17 out of 294</i>
University of Cambridge <i>Bachelor of Arts</i>	2020–23 <i>First class honours</i>

EXPERIENCE

Summer research internship , University of Cambridge Summer project supervised by Alexei Kovalev, studying hyperkähler metrics on coadjoint orbits.	Summer 2023
Summer research internship , University of Cambridge Summer project supervised by Anders Hansen, studying (non-)computability of optimisation problems.	Summer 2022

CONFERENCE TALKS

Fibrations and Deformations , Brest <i>Canonical Metrics on Families of Vector Bundles</i>	Jun 2025
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SEMINAR TALKS

Warwick Junior Algebraic Geometry Seminar , <i>Canonical Metrics on Families of Vector Bundles</i>	May 2025
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OTHER TALKS

Reading group on K-stability of Fano Varieties α - and δ -invariants	Jun 2025
Glasgow Geometry and Topology Pre-Seminar <i>Gauge theory and Floer theory</i>	Mar 2025
Reading group on Positivity in Algebraic Geometry <i>Big line bundles, Volume and Zariski decomposition</i>	Feb 2025
AGQ CDT Reading group on Algebraic Stacks <i>Deformation theory and smoothness</i>	Feb 2025
AGQ CDT Reading group on Geometric Invariant Theory <i>Kempf-Ness</i>	Dec 2024
AGQ CDT Examples showcase <i>Blowing up and rational elliptic surfaces</i>	Nov 2024
Part III Seminar <i>Symplectic Reduction</i>	Mar 2024

Part III Seminar	<i>Dec 2023</i>
<i>Morse theory</i>	
Cambridge Summer Research Festival	<i>Oct 2023</i>
<i>Hyperkähler structures on nilpotent $SL(n, \mathbb{C})$ orbits</i>	
Cambridge Summer Research Festival	<i>Oct 2022</i>
<i>On generalised hardness of approximation in optimisation and data science</i>	

ORGANISATION

Reading group on Geometric Invariant Theory	<i>Autumn 2024</i>
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AWARDS AND SCHOLARSHIPS

Clemmow/B Talbot Prize, K Roth Prize	<i>2023</i>
<i>Awarded for highest first in Part II Mathematics at Peterhouse</i>	
Senior Burkhill Prize for Mathematics, Routh prize for Mathematics	<i>2022</i>
<i>Awarded for highest first in Part IB Mathematics at Peterhouse</i>	
Summer Research Bursary	<i>2022, 2023</i>
<i>Funding from the Faculty of Mathematics for summer research projects.</i>	
Scholarship in Mathematics	<i>2021-24</i>
<i>Scholar of Peterhouse, University of Cambridge</i>	
College prize	<i>2021, 2022, 2023, 2024</i>
<i>College prize for academic achievement</i>	

CONFERENCES ATTENDED

VII BrAG Meeting, Nottingham	<i>Sep 2025</i>
Singular canonical Kähler metrics on compact and non-compact manifolds, Budapest	<i>Sep 2025</i>
Summer Research Institute in Algebraic Geometry, Colorado	<i>Jul 2025</i>
Fibrations and Deformations, Brest	<i>Jun 2025</i>
Winter School on K-stability, CIRM, Luminy	<i>Mar 2025</i>
UKAG Network Winter School, Lancaster	<i>Dec 2024</i>
GLEN, Glasgow	<i>Dec 2024</i>

SKILLS

Programming Languages
Haskell, Python, Julia, Mathematica, Rust
Languages
Native: English, Cantonese, Mandarin
Basic: French, Spanish

Last updated: September 9, 2025