SHING TAK LAM

School of Mathematics and Statistics, University of Glasgow stl45@cantab.ac.uk

EDUCATION

University of Warwick	2025–28
Doctor of Philosphy	
PhD in Complex Differential Geometry supervised by Ruadhaí Dervan.	
University of Glasgow	2024-25
Doctor of Philosophy (Incomplete) PhD in Complex Differential Geometry supervised by Ruadhaí Dervan. Geometry and Quantum Fields CDT. Transferring to the University of University of Cambridge	
·	n - 90%, ranked 17 out of 294
Courses in Algebra, Algebraic Geometry, Differential Geometry and Pa	,
Part III essay titled "Quantum cohomology and the Seidel representati	
University of Cambridge	2020-23
Bachelor of Arts	First class honours
EXPERIENCE	
Summer research internship, University of Cambridge	Summer 2023
Summer project supervised by Alexei Kovalev, studying hyperkähler m	etrics on coadjoint orbits.
Summer research internship, University of Cambridge	Summer 2022
Summer project supervised by Anders Hansen, studying non-computab	ility of optimisation problems.
CONFERENCE TALKS	
Fibrations and Deformations, Brest	Jun 2025
Title to be confirmed	
SEMINAR TALKS	
Warwick Junior Algebraic Geometry Seminar,	May 2025
Canonical Metrics on Families of Vector Bundles	, and the second
OTHER TALKS	
Glasgow Geometry and Topology Pre-Seminar	Mar 2025
Gauge theory and Floer theory	
Reading group on Positivity in Algebraic Geometry	Feb 2025
Big line bundles, Volume and Zariski decomposition	-
AGQ CDT Reading group on Algebraic Stacks	Feb 2025
Deformation theory and smoothness	D 2021
AGQ CDT Reading group on Geometric Invariant Theory	Dec 2024
Kempf-Ness AGQ CDT Examples showcase	Non 2021
Blowing up and rational elliptic surfaces	Nov 2024
Part III Seminar	Mar 2024
Symplectic Reduction	14141 2024
Part III Seminar	Dec 2023

Morse theory

Cambridge Summer Research Festival

Oct 2023

Hyperkähler structures on nilpotent $SL(n, \mathbb{C})$ orbits.

Cambridge Summer Research Festival

Oct 2022

On generalised hardness of approximation in optimisation and data science

ORGANISATION

Reading group on Geometric Invariant Theory

Autumn 2024

AWARDS AND SCHOLARSHIPS

Clemmow/B Talbot Prize, K Roth Prize

2023

Awarded for highest first in Part II Mathematics at Peterhouse

Senior Burkhill Prize for Mathematics, Routh prize for Mathematics

2022

Awarded for highest first in Part IB Mathematics at Peterhouse

Summer Reseach Bursary

Summer 2022, 2023

Funding from the Faculty of Mathematics for summer research projects.

Scholarship in Mathematics

2021-24

Scholar of Peterhouse, University of Cambridge

College prize

2021, 2022, 2023, 2024

College prize for academic achievement

CONFERENCES ATTENDED

Summer Research Institute in Algebraic Geometry, Colorado	Jul 2025
Fibrations and Deformations, Brest	Jun~2025
Winter School on K-stability, CIRM Marseille	Mar 2025
UKAG Network Winter School, Lancaster	Dec 2024
GLEN, Glasgow	Dec 2024

SKILLS

Programming Languages

Programming: Haskell, Python, Julia, Mathematica, Rust

Formalisation: Lean

Languages

Native: English, Chinese, Cantonese

Basic: French, Spanish

Last updated: May 4, 2025