

Terry Dekun Song

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Research Interests

Topology of moduli spaces in algebraic geometry, weight filtration, Grothendieck ring of varieties, logarithmic and tropical geometry

Education

- 2022-present PhD in Mathematics, Trinity College, University of Cambridge, UK
 Advisor: Prof Dhruv Ranganathan
- 2018-2022 MMath in Mathematics, St Peter's College, University of Oxford, UK
 Advisor: Prof Balázs Szendrői
 Part C Dissertation: *Borel equivariant Morava E-theory*, supervised by Dr Lukas Brantner

Preprints

- 2024 *The S_n -equivariant Euler characteristics of genus one stable maps*
 with Siddarth Kannan. [arXiv]
- 2024 *The dual complex of $\mathcal{M}_{1,n}(\mathbb{P}^r, d)$ via the geometry of the Vakil–Zinger moduli space*
 with Siddarth Kannan. [arXiv]

Teaching

- 2024-25 Examples classes for Part III Intersection Theory
 Supervisions for Part IB Groups, Rings, and Modules, and Part II Riemann Surfaces
 Total teaching time: 40 hr
- 2023-24 Supervisions for Part II Algebraic Topology, Algebraic Geometry, and Riemann Surfaces
 Support sessions for Part IA Groups and Part III Algebraic Topology
 Total teaching time: 60 hr
- 2022-23 Supervisions for Part II Algebraic Topology and Algebraic Geometry
 Total teaching time: 30 hr

Talks

- Apr 2025 ETH Zürich
- Jan 2025 Calf meeting, Cambridge
- Nov 2024 Queen Mary, University of London

Nov 2024 Mini-talk at AGNES, Dartmouth

Sep 2024 Mini-talk at Tübingen summer school on tropical linear spaces

Apr 2024 Fanosearch group meeting at Imperial

Prizes and Scholarships

2024 Smith-Knight & Rayleigh-Knight Prize Essay Award

2022 Cambridge Trust International Scholarship
Full funding for PhD at Cambridge.

2022 Gibbs Prize, Mathematical Institute, Oxford
Second place at Part C Mathematics examinations.

2021 Junior Mathematical Prize, Mathematical Institute, Oxford
Third place at Part B Mathematics examinations.