TRUNG VU

trung.vu@yale.edu | website

Education

Ph.D. in Mathematics, Yale University   *2021– Present*
Advisor: Prof. Ivan Losev

B.Sc. in Mathematics, HKUST   *2017–2021*

Research Interests

Geometric representation theory, Quantum Algebra.

Publications

- T. Vu, *On the functor relating Harish-Chandra bimodules and Soergel bimodules.* arXiv: 2507.17067

- I. Losev, A. Tsymbaliuk, T.Vu, *On De Concini-Kac forms of quantum groups.* arXiv: 2601.06696

- T.Vu, *Quantum Harish-Chandra bimodules at roots of unity.* In progress.

Invited Talks

- AMS Eastern Sectional Meeting, Boston College   *Mar 2026*

- Seattle Noncommutative Algebra Conference, University of Washington (short talk)   *Dec 2025*

- Physics and Math seminar, Purdue University   *Mar 2025*

Contributed Presentations

- Categorification and Symplectic Duality Workshop, Northeastern University (Poster) *Jun 2025*

Teaching

Instructor of Record, Yale University

- Math 115 Calculus of Functions of One Variable II   Fall 2025

- Math 115 Calculus of Functions of One Variable II   Spring 2025

Teaching Assistant/Grader

- Calculus, Linear Algebra, Introduction to Differential Manifolds.

Workshops and Conferences Attended

- WARTHOG 2025, University of Oregon, *Cluster Algebras and Braied Varieties* *Aug 2025*

- 7-th Canada-Mexico-US meeting, University of Southern California, *Jul 2025*
  Representation Theory, Noncommutative Algebra, and Categorification

- Advances in Representation Theory, Northeastern University *Jun 2025*

- Quantum Groups and Representation Theory, North Carolina State University, *Oct 2024*
  On the occasion of Kailash Misra's 70 birthday

- WARTHOG 2024, University of Oregon, *Coherent-constructible equivalences* *Jul 2024*
  in local Goemetric Langlands and Representation Theory

- MSRI summer school, *Koszul Duality in the Local Langands Program* *Jul 2024*

- The 14th Southern Lie Theory Workshop series, University of Virginia, *Mar 2024*
  Quantum structures on Lie Theory

- Summer school in Geometric Representation Theory, MIT, *Jun 2023*
  Coulomb Branches and Knot Homology