

Trung Vu

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EDUCATION

Yale University <i>PhD in Mathematics. Advised by Ivan Losev</i>	2021 – present
Hong Kong University of Science and Technology <i>Bachelor of Science in Mathematics</i>	2017–2021
High School for Gifted student, Vietnam	2013–2016

RESEARCH INTERESTS

Geometric Representation Theory, Quantum Algebra.

RESEARCH

1. T. Vu, *On the functor relating Harish-Chandra bimodules and Soergel bimodules*. arXiv:2507.17067
2. I. Losev, A. Tsymbaliuk, T.Vu, *On De Concini-Kac forms of quantum groups*. arXiv: 2601.06696
3. T.Vu, *Quantum Harish-Chandra bimodules at roots of unity*. In progress.

TEACHING

At Yale University:

Instructor on record:

- Math 115 Calculus of Functions of One Variable II, Spring 2025.
- Math 115 Calculus of Functions of One Variable II, Fall 2025.

Teaching assistant/Grader: Calculus, Linear Algebra, Introduction to Differential Manifolds.

TALKS

- Physics and Math seminar, Purdue University, March 2025.
- Seattle Noncommutative Algebra Conference, University of Washington, December 2025 (Short talk).
- AMS Eastern Sectional Meeting, Boston College, March 2026.

Contributed Presentations

- Categorification and Symplectic Duality Workshop, Northeastern University (Poster).

WORKSHOPS AND CONFERENCES ATTENDED

- WARTHOG 2025, University of Oregon, August 2025. *Cluster Algebras ad Braided Varieties*
- 7-th Canada-Mexico-US meeting, University of Southern California, July 2025. *Representation Theory, Noncommutative Algebra, and Categorification*
- Advances in Representation Theory, Northeastern University, June 2025.
- Quantum Groups and Representation Theory, North Carolina State University, October 2024. *On the occasion of Kailash Misra's 70 birthday*
- WARTHOG 2024, University of Oregon, July 2024. *Coherent-constructible equivalences in local Geometric Langlands and Representation Theory*

- MSRI summer school, July 2024. *Koszul Duality in the Local Langlands Program*
- The 14th Southern Lie Theory Workshop series, University of Virginia, March 2024. *Quantum structures on Lie Theory*
- Summer school in Geometric Representation Theory, MIT, June 2023. *Coulomb Branches and Knot Homology*