Trung Vu

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Education

Yale University 2021 – present
PhD in Mathematics. Advised by Ivan Losev

Hong Kong University of Science and Technology 2017–2021
Bachelor of Science in Mathematics

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.* In preparation.
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).

Contributed Presentations

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

Workshops and Conferences Attended

- WARTHOG 2025, University of Oregon, August 2025. *Cluster Algebras ad Braied 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 Goemetric Langlands and Representation Theory*

- MSRI summer school, July 2024. *Koszul Duality in the Local Langands 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*