

TRUNG VU

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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.

Fellowships & Awards

- **Conference Travel Fellowship**, Yale University 2026

Invited Talks

- Rep and Lie Theory seminar, University of California, Riverside *May 2026*
- 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

- Math 115 Calculus of Functions of One Variable II Spring 2024

- Linear algebra Spring 2023
- Math 112 Calculus of Functions of One Variable I Spring 2022

Grader

- Calculus, Linear algebra, Abstract algebra, Introduction to differential manifold.

Workshops and Conferences Attended

- WARTHOG 2025, University of Oregon, *Cluster Algebras and Braided Varieties* *Aug 2025*
- 7-th Canada-Mexico-US meeting, University of Southern California, *Representation Theory, Noncommutative Algebra, and Categorification* *Jul 2025*
- Advances in Representation Theory, Northeastern University *Jun 2025*
- Quantum Groups and Representation Theory, North Carolina State University, *On the occasion of Kailash Misra's 70 birthday* *Oct 2024*
- WARTHOG 2024, University of Oregon, *Coherent-constructible equivalences in local Geometric Langlands and Representation Theory* *Jul 2024*
- MSRI summer school, *Koszul Duality in the Local Langlands Program* *Jul 2024*
- The 14th Southern Lie Theory Workshop series, University of Virginia, *Quantum structures on Lie Theory* *Mar 2024*
- Summer school in Geometric Representation Theory, MIT, *Coulomb Branches and Knot Homology* *Jun 2023*