# 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. Tsymbailuk, 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 2026.

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

## INVITED TALKS

- Physics and Math seminar, Purdue University, March 2025.

## 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*

## CITIZENSHIP

Vietnam.