ANH TRAN

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EDUCATION

Rice University, Houston, TX   2021
B.S. in Mathematics

University of Illinois at Chicago, Chicago, IL   2022 - (expected) 2027
Ph.D. in Mathematics

EXPERIENCE

Teaching Experience
○ Rice University: TA for MATH 354 Honors Linear Algebra, 356 Group Theory, 376 Algebraic Geometry, STAT 312 Statistics and COMP 382 Algorithms. Responsibilities included grading, holding office hours and assisting in lab sessions.
○ UIC: TA for MATH 125 Elementary Linear Algebra, 210 Calculus III. Responsibilities include leading weekly sessions, grading, and office hours.

Organizational Experience
○ Organizer, Moduli of K3 surfaces reading group   Fall 2024
○ Co-organizer, Graduate Algebraic Geometry seminar   Fall 2024
○ Co-organizer, Graduate Number Theory seminar   Spring 2024

Mathematics Research
○ Summer 2017 REU, University of Minnesota, Twin Cities. Worked on a question about the characteristic polynomials of certain pattern avoiding permutations. Report here.

CONFERENCES, WORKSHOPS

Unlikely Intersection – Arizona Winter School   March 2023
Hodge theory and o-minimality – CIRM, Luminy   January 2024

GRADUATE SEMINAR TALKS

Graduate AG Seminar. Introduction to Hodge Theory – Construction of moduli of K3 surfaces – General curve of genus 6 – Decompositions in derived categories – Generic Torelli theorem.
Graduate NT Seminar. Root systems of algebraic groups – Jacobian varieties.
Hodge Theory Seminar. Mumford-Tate group – Deligne's finiteness theorem – Structure of period map – Limit Mixed Hodge Structure – Kummer surfaces.

HONORS, AWARDS

2018 Hubert E. Bray Prize, given annually to the outstanding mathematics junior.
Top 300 in Putnam Mathematical Competition 2017.

TECHNICAL SKILLS

Fluent in C, C++, Python.