

ANH TRAN

SEO 733, 851 S Morgan St ◇ Chicago, IL 60607
(872) 295 - 9030 ◇ atrans8@uic.edu

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, Kobayashi-Hitchin correspondence reading group

Spring 2025

○ Organizer, Moduli of K_3 surfaces reading group

Fall 2024

○ Co-organizer, Graduate Algebraic Geometry seminar

2024-2025

○ 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

Summer Research Institute in Algebraic Geometry - Fort Collins, CO

July 2025

GRADUATE SEMINAR TALKS

Graduate AG Seminar. Introduction to Hodge Theory – Construction of moduli of K_3 surfaces – General curve of genus 6 – Decompositions in derived categories – Generic Torelli theorem – Connectedness of Brill-Noether loci.

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 – Basics of D-modules – Intersection cohomology – Hodge modules over a curve.

HONORS, AWARDS

2018 Hubert E. Bray Prize, given annually to the most outstanding mathematics junior.

TECHNICAL SKILLS

Fluent in C, C++, Python.