

CONTACT INFORMATION	Email: ktran21@huskers.unl.edu Website: https://uyen-tran.github.io/	
EDUCATION	University of Nebraska–Lincoln (UNL) <i>Ph.D. student in Mathematics</i> <ul style="list-style-type: none"> • Advisor: Mark Walker • Research interests: commutative algebra, homological algebra 	Lincoln, Nebraska 2023–present
	University of Nebraska–Lincoln <i>M.S. in Mathematics</i>	Lincoln, Nebraska 2023–2025
	University of Nebraska–Lincoln <i>B.S. in Mathematics and Computer Science</i>	Lincoln, Nebraska 2020–2023
HONORS	<i>Othmer Fellowship</i> , University of Nebraska–Lincoln <i>Global Laureate Scholarship</i> , University of Nebraska–Lincoln	2023–2026 2020–2023
RESEARCH EXPERIENCE	REU on p-adic numbers and p-derivations <i>University of Nebraska–Lincoln</i> <ul style="list-style-type: none"> • Advisors: Eloísa Grifo and Jack Jeffries • Supported by NSF grant DMS-2140355 	Summer 2022
RESEARCH TALKS	<i>Ulrich modules</i> Commutative Algebra Reading Seminar, University of Nebraska-Lincoln <i>Brief overview of Dedekind domains</i> Joint talk with Abbey Moos Commutative Algebra Reading Seminar, University of Nebraska-Lincoln <i>The Hilbert-Burch theorem and the Peskine-Szpiro Acyclicity lemma</i> Commutative Algebra Reading Seminar, University of Nebraska-Lincoln <i>Lower bounds for Betti numbers of graded modules over polynomials rings</i> Commutative Algebra Reading Seminar, University of Nebraska-Lincoln <i>The p-adic numbers</i> Nebraska Conference for Undergraduate Women in Mathematics <i>The p-adic numbers and p-derivations</i> REU Final Talk, University of Nebraska–Lincoln	March 2025 November 2025 August 2025 April 2025 January 2023 August 2022
TEACHING EXPERIENCE	University of Nebraska–Lincoln Calculus 2 Recitation , Associate Convener, Teaching Assistant Calculus 2 , Instructor Contemporary Math , Instructor College Algebra , Instructor Calculus 2 Recitation , Teaching Assistant Calculus 1 Recitation , Teaching Assistant Calculus 2 Recitation , Teaching Assistant	Fall 2025 – Spring 2026 Summer 2025 Spring 2025 Pre-Session Fall 2024 – Spring 2025 Summer 2024 Spring 2024 Fall 2023

SERVICE AND OUTREACH	<p>Nebraska Conference for Undergraduate Wisdom in Mathematics (NCUWM) <i>Organizing Committee</i> Fall 2025 – Spring 2027</p> <ul style="list-style-type: none"> • Schedule talks, presentations for NCUWM 2026, NCUWM 2027 • Assist with the setups, execution, and organizing volunteers at the conference with 200+ students <p>Department of Mathematics, University of Nebraska–Lincoln <i>Calculus 2 Associate Convener</i> Fall 2025 – Spring 2026</p> <ul style="list-style-type: none"> • Coordinated weekly meetings for Calculus II teaching assistants to plan recitations and share teaching strategies • Mentored first-year graduate teaching assistants in instructional practice and classroom management <p><i>College Algebra Curriculum Development</i> Summer 2025</p> <ul style="list-style-type: none"> • Redesigned assessment structure following the mastery-based learning framework • Developed and implemented online assessments using the WeBWorK platform
CONFERENCES, WORKSHOPS ATTENDED	<p><i>Pan-American Summer School in Commutative Algebra 2.0</i>, Cimat, Mexico May 2026</p> <p><i>A Celebration of Golod’s Mathematical Legacy</i>, University of Warwick, UK April 2026</p> <p>CA+ 2026, Iowa State University March 2026</p> <p>KUMUNU 2025, University of Missouri October 2025</p> <p><i>Commutative Algebra Market Preparation</i>, UNL August 2025</p> <p><i>Upcoming Researchers in Commutative Algebra 2025</i>, UNL May 2025</p> <p>BRIDGES 2024, University of Utah July 2024</p> <p><i>Thematic Program on Field Theory and Topology</i>, University of Notre Dame June 2024</p> <p><i>Thematic Program on Rationality and Hyperbolicity</i>, University of Notre Dame June 2023</p>