

EDWARD VARVAK

UIC MSCS Department ◊ 851 S Morgan Street ◊ Chicago, IL 60607

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EDUCATION

University of Illinois Chicago *Sept 2022 - May 2027*
Doctor of Philosophy (Ph.D.) in Mathematics, advised by Ben Bakker

Stony Brook University *Sept 2018 - May 2022*
Bachelor of Science (B.S.) in Mathematics
Bachelor of Science (B.S.) in Applied Mathematics and Statistics

RESEARCH INTERESTS

Complex algebraic geometry, Hodge theory, Abelian varieties, symplectic varieties, Lagrangian fibrations, algebraic foliations, monodromy representations, non-Abelian Hodge theory.

RESEARCH AND PUBLICATIONS

"The Monodromy of Compact Lagrangian Fibrations", *April 2025*
16 pages, submitted.

Honors Thesis, Stony Brook *May 2022*
"Recovering Plane Nodal Curves from their Bitangents",
advised by Olivier Martin, 12 pages.

INVITED TALKS

Research Seminar, Institute for Advanced Study *November 2025*
Graduate Student Colloquium, University of Illinois Chicago *February 2025*

ORGANIZATION AND SERVICE

Co-organized Graduate Algebraic Geometry Seminar (GAGS) *Fall 2025-Spring 2026*
Judged for QED Competition (Math Circles of Chicago) *December 2025*
Organized Weil Conjecture Reading Group *Fall 2025*
Organized Groups Seminar *Fall 2024*

HONORS AND AWARDS

Bernard Kurtin Award, UIC MSCS Department *2025-2026*
UIC RTG Grant *Fall 2025,*
Summer 2025,
Spring-Summer 2024,
Spring-Summer 2023

Honors in Mathematics, SBU Mathematics Department *2018-2022*
Kuga-Sah Award, SBU Mathematics Department *2022*
Cum Laude, Stony Brook University *2022*

TEACHING EXPERIENCE

Math 181: Calculus II
Math 160: Finite Math for Business

Spring 2026
Spring 2025,
Fall 2024,
Fall 2023,
Fall 2022

LANGUAGES

English (Native)
Russian (Fluent)

REFERENCES

Ben Bakker (Doctoral Advisor)
Associate Professor
University of Illinois Chicago
bakker.uic@gmail.com

Olivier Martin
Assistant Professor
Instituto de Matemática Pura e Aplicada
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Izzet Coskun
LAS Distinguished Professor
University of Illinois Chicago
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McKinley Meyer (teaching reference)
Lecturer
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