Matthew Niemiro

Harvard University	2024 - Present
PhD student in mathematics	
University of Illinois Urbana-Champaign	2020 - 2024
B.S., summa cum laude in Mathematics	GPA: 4.0 / 4.0
Research Experience, Papers	
The University of Chicago Math Research Experience for Undergraduates (REU)	June – August 2023
Advisor: Prof. Peter MayPaper in preparation on ambidexterity and semiadditivity in homotopy theory.	
The University of Chicago REU	June – August 2022
Advisor: Prof. Peter May • Resulted in 20-page paper The Adams Conjecture and the K-theory of finite fields (joint with	Zhong Zhang).
The University of Chicago REU	June – August 202
Advisor: Max JohnsonResulted in 12-page paper The derived functor approach to sheaf cohomology.	C
Cochains on the circle	
Harvard Zygotop Seminar	2024
THH of spherical cochains and free loop spaces	
UIUC Telescope Seminar	202-
The Adams conjecture and Quillen's invention of algebraic K-theory	
The University of Chicago	202.
Some recollections from Ravenel's Orange Book	202
UIUC Chromatic Seminar Computing the homology of general linear groups over finite fields	202.
UIUC Kan Seminar	202.
The cobar construction	202.
UIUC Kan Seminar	202
The Adams conjecture and Quillen's invention of algebraic K-theory	202.
The University of Chicago	202
You could have invented derived functors	
The University of Chicago	202
	202

Service

Harvard/MIT Babytop Seminar	Spring 2024
Organizer	Harvard University
Condensed Seminar	June – August 2023
Organizer, lecturer	The University of Chicago

Awards & Honors

H. Roy Brahana Prize in Mathematics

Awarded annually to the UIUC student with "the most exceptional undergraduate math career."

Salma Wanna Award

Awarded annually to a UIUC student "for exceptional performance in mathematics."

2023