Matthew Niemiro

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2022

Education	2024 P
Harvard University	2024 - Present
PhD student in mathematics	2020 2027
University of Illinois Urbana-Champaign	2020 - 2024 CRA: 4.0./4.0
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 May • Paper 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 	h Zhong Zhang).
The University of Chicago REU	June – August 2021
Advisor: Max Johnson • Resulted in 12-page paper The derived functor approach to sheaf cohomology.	C
Talks, Presentations	
Cochains on the circle	
Harvard Zygotop Seminar	2024
THH of spherical cochains and free loop spaces	
UIUC Telescope Seminar The Adams assistant and Onillan's invention of alcohoris V. the com-	202
The Adams conjecture and Quillen's invention of algebraic K-theory	202
The University of Chicago Some recollections from Ravenel's Orange Book	202.
UIUC Chromatic Seminar	202.
Computing the homology of general linear groups over finite fields	202.
UIUC Kan Seminar	202.
The cobar construction	
UIUC Kan Seminar	202.
The Adams conjecture and Quillen's invention of algebraic K -theory	
The University of Chicago	202.
You could have invented derived functors	
The University of Chicago	202.
Homotopy, modular forms, and the spectrum $Q(\ell)$ UIUC Undergraduate Research Symposium	202
ervice	
Condensed Seminar	June – August 2023
Organizer, lecturer	The University of Chicago
Sheaf Seminar	June – August 2022
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."