

NATHANIEL LIBMAN

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EDUCATION

University of California, San Diego (UCSD) PhD, Mathematics	<i>September 2020 - June 2025 (Anticipated)</i>
University of Toronto Hon. B.Sc, Mathematics Mathematics Specialist	<i>September 2015 - June 2020</i>
Great Neck North High School New York State High School Diploma	<i>September 2011 - June 2015</i>

RESEARCH PAPERS

Combinatorics and Representation Theory of Special Cases of Chern Plethysm
October 2023, with Gidon Orelowitz

TEACHING

Teaching Assistant, UCSD
Applied Linear Algebra: Spring 2022, Fall 2022
Modern Algebra I: Fall 2021, Summer 2022, Winter 2023
Abstract Algebra I: Fall 2021
Abstract Algebra II: Winter 2022
Intro to Mathematical Reasoning: Summer 2021, Spring 2023, Summer 2023
Calculus II: Winter 2021
Calculus III: Fall 2020, Spring 2021

Teaching Assistant, University of Toronto
Intro to Proofs: Fall 2019
Calculus: 2018 - 2019, 2019 - 2020
Linear Algebra II: Spring 2018, Summer 2018

LEADERSHIP EXPERIENCE

Math Graduate Student Council Executive Member, 2021 - 2022
Position: Financial Director

Reading group leader for undergraduates, Spring 2021
Topic: Quiver representations

CONFERENCES AND TALKS

Graduate Student Combinatorics Conference
March 2023, Washington University
Title: A Brief Introduction to Chern Plethysm

UC San Diego Food For Thought Seminar
March 2021, UCSD
Title: Quiver Representations, Gabriel's Theorem, and Morita Equivalence
Video: https://www.youtube.com/watch?v=JhLeAf_A1LA

November 2021, UCSD

Title: Every Counterexample in Topology and Whether or Not Each is Compact

Video: <https://www.youtube.com/watch?v=YjhVaoXzCE>

Canadian Undergraduate Mathematics Conference

July 24 - July 28 2019, Queen's University, Kingston, ON

Presentation: An Upper Bound on Sum-Free Subsets

Additive Combinatorics Seminar

Summer 2019, University of Toronto

Presentations: Graph-Theoretic Methods and Algebraic Methods

Notes at <https://www.galgr.com/additive-combinatorics>

SUMMER SCHOOLS AND CONFERENCES ATTENDED

Schubert Summer School

June 12 - 22, 2023, UIUC

Website: <https://sites.google.com/view/schubertsummerschool2023/home>

Open Problems in Algebraic Combinatorics

May 16 - 21, 2022, University of Minnesota, Twin Cities

Website: <http://www.samuelhopkins.com/OPAC/opac.html>

Thematic Program in Commutative Algebra and Algebraic Geometry

May 28 - June 1 2019, Notre Dame University

Canada/USA Mathcamp

Summer 2014/2015

AwesomeMath Summer Program

Summer 2012/2013

ACADEMIC AWARDS

Top 500, William Lowell Putnam Mathematical Competition, 2015, 2018

New College Grant, 2016

University Of Toronto Scholar, 2015

New College Open Admission Scholarships, 2015

AMC 12 School Winner, 2013, 2014

AIME Qualifier 2013, 2014

Canadian Math Olympiad Qualifier, 2014