

MAKSYM ZUBKOV

Email: mzubkov@berkeley.edu

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Office: Evans 1045

RESEARCH INTERESTS

Algebraic Topology, Representation Theory, and Algebraic Geometry

EDUCATION

University of California, Berkeley 2018 - present
PhD in Mathematics
Advisor: David Nadler

University of California, Irvine Class of 2018
Bachelor of Science Honors in Mathematics
Advisor: Vladimir Baranovsky

HONORS AND AWARDS

UROP Fellowship, University of California, Irvine 2018
SURP Fellowship, University of California, Irvine 2017
Honorary Presenter MAA at MathFest 2017 in Chicago 2017

PUBLICATIONS AND PAPERS

"Chromatic Graph Homology for Brace Algebras", Vladimir Baranovsky and Maksym Zubkov, New York J. Math. 23 (2017) 1307–1319

PRESENTATIONS AT CONFERENCES AND SEMINARS

"Applications of Riemann-Roch theorem"	Fall	2021
UC Berkeley Student Algebraic Curve Seminar		
"Trace and Cyclic Homology"	Spring	2021
UC Irvine Graduate Algebra Seminar		
"Colored Jones Polynomials"	Fall	2019
UC Berkeley Student Topology Seminar		
"Hyperbolic Dehn Surgeries"	Spring	2019
UC Berkeley Student Topology Seminar		
"Chromatic Graph Homology for Brace Algebras"	January	2018
Joint Mathematics Meetings 2018 in San Diego		
"Homotopy Commutative Algebras, Knots and Graphs"	July	2018
MAA MathFest Conference [Chicago]		
"Homotopy Algebras: A-infinity, E2, and Brace"	May	2017
UC Irvine Graduate Algebra Seminar		

“Preliminaries on Knot Theory: Jones Polynomials and Vassiliev Invariant” UC Irvine Undergraduate Math Club	March 2017
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CONFERENCES ATTENDED

Joint Mathematics Meetings 2018 in San Diego	January 2018
Field of Dreams Conference 2017 in St. Louis	November 2017
Interactions between Representation Theory and Algebraic Geometry [Chicago]	August 2017
MAA MathFest Conference 2017 in Chicago	July 2017

TEACHING EXPERIENCE

Graduate Student Instructor, UC Berkeley

Math 53: Multivariable Calculus	Fall 2018
Math 53: Multivariable Calculus	Spring 2019
Math 53: Multivariable Calculus	Fall 2019
Math 32: Precalculus	Spring 2020
Math 32: Precalculus	Fall 2020
Math 16B: Calculus	Spring 2021
Math 16B: Calculus	Fall 2021
Math 16A: Calculus	Spring 2023

Lecturer, UC Berkeley

Math 53: Multivariable Calculus	Summer 2019
Math 53: Multivariable Calculus	Summer 2021

Supplemental Math Instructor, UC Irvine

Math 2D: Multivariable Calculus	Spring 2019
Math 2D: Multivariable Calculus	Winter 2018
Math 2D: Multivariable Calculus	Fall 2017
Math 2B: Integral Calculus	Summer 2017
Math 2A: Differential Calculus	Summer 2017
Math 2D: Multivariable Calculus	Spring 2017

SKILLS

Programing skills: Python, LaTeX, Mathematica, C/C++

Languages: Fluent in Russian and Ukrainian

SERVICE AND OUTREACH

MathForLife: Math Educational channel	<i>YouTube</i>	2017 - present
Math Circle Instructor	<i>UC Irvine</i>	2017 - 2018
Direct Reading Program	<i>UC Berkeley</i>	2020
Direct Reading Program	<i>UC Berkeley</i>	2021