CHRISTOPHER K. CHUNG

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RESEARCH INTERESTS

Representation theory: quantum groups, quantum symmetric pairs; categorification, Soergel bimodules

EDUCATION

Doctor of Philosophy, Mathematics Advisor: Weigiang Wang

Master of Mathematical Sciences Supervisor: Anthony Licata Master's thesis title: A spanning tree model for Khovanov homology

Bachelor of Science with distinction Concentrations: Mathematics, Economics

PUBLICATIONS

Quantum Supergroups VI: Roots of 1 arxiv:1812.05771 Joint with Weigiang Wang and Thomas Sale

· Letters in Mathematical Physics, 109 (2019) 2753-2777.

A Serre presentation for the iquantum covering groups

· Preprint.

Canonical basis for *i*quantum covering groups

· In preparation

'p-canonical basis', book chapter Joint with Gordon C. Brown and Christopher Leonard

Chapter on Williamson's p-canonical basis of 'Introduction to Soergel Bimodules', a book jointly written and edited by organizers Ben Elias and Geordie Williamson and all participants of the 2017 MSRI Summer School on Soergel bimodules and categorical representation theory.

TEACHING EXPERIENCE

Instructor of Record	University of Virginia
· MATH 1320: Calculus II	(Scheduled for) Spring 2020
· MATH 1310: Calculus I	Fall 2019
\cdot MATH 1210: Survey of Calculus I	Fall 2016, Spring 2017, Fall 2017
Graduate Teaching Assistant	University of Virginia
\cdot MATH 3000: Transition to Higher Mathematics	Spring 2016
\cdot MATH 2310: Multivariable Calculus	Fall 2015
Course Tutor and Grader	Australian National University
\cdot MATH 2305: Differential Equations and Applications	Session 2, 2014

University of Virginia, Charlottesville, Virginia (Expected) May 2020

Australian National University, Canberra, ACT December 2014

University of Michigan, Ann Arbor, Michigan April 2012

arxiv:1912.09281

In publication

TALKS PRESENTED AND SCHEDULED

<i>led)</i> March 13-15, 2020
November 18, 2019
November 1, 2019
September 14-15, 2019
2016 - 2019
Fall 2019 Fall 2018 Fall 2017 Fall 2016 Spring 2016

SERVICE AND OUTREACH

· Co-Mentor, Summer 2019 REU at University of Virginia	Summer, 2019
With fellow graduate student Andrew Kobin, guided our mentees Spencer Martin and	1 Will Donahoe
through understanding the dimension formulas for spaces of modular forms, two prese	entations, and a
poster presentation at the 2019 SUMS conference at James Madison University.	
· Mentor, Directed Reading Program at University of Virginia	Spring, 2019
Guided my DRP mentee Joseph Snitzer through a selection of category theory texts and	$on line\ material$
to understand the Yoneda Embedding, and prepare for a presentation during UVa's Ma	th Club.
· Association for Women in Mathematics Sonia Day in Topology	March 2, 2019
Facilitated and helped plan for a single day program sponsored by the UVa's AWM chap	ter with fun ac-
tivities aimed at providing middle and high school girls the opportunity to engage with it	leas in topology.
· UVa Math Ambassador	2017-18
UVa's Mathematics outreach program to Albemarle County and Charlottesville city sch	nools.
\cdot Mentorship Co-chair, Association for Women in Mathematics	2017-18
· Member, Graduate School of Arts and Sciences Research Grant Review Committee 2017-18	

TECHNICAL STRENGTHS

Computer Languages	Proficiency with: MATLAB, Mathematica.
	Experience with: Maple, Python, R and Stata.
Languages	Proficient: English, Mandarin Chinese, and Bahasa Melayu.
	Learning: French.