CHRISTOPHER K. CHUNG

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RESEARCH INTERESTS

Representation theory; quantum groups, Soergel bimodules, and categorification

EDUCATION

Doctor of Philosophy, Mathematics — University of Virginia, Charlottesville, Virginia
Advisor: Weiqiang Wang — *(Expected) May 2020*

Master of Mathematical Sciences — Australian National University, Canberra, ACT
Supervisor: Anthony Licata — *December 2014*
Master's thesis title: A spanning tree model for Khovanov homology

Bachelor of Science with distinction — University of Michigan, Ann Arbor, Michigan
Concentrations: Mathematics, Economics — *April 2012*

PUBLICATIONS

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

· Letters in Mathematical Physics (to appear)

Serre presentation and $\imath$canonical basis for $\imath$quantum covering groups — arxiv:xxxx.xxxx
Title subject to change

· *In preparation*

Chapter on p-canonical basis — Upcoming/in publication
Joint with Gordon C. Brown and Christopher Leonard

· Chapter of *'Introduction to Soergel Bimodules'*, a book jointly written and edited by organizers Ben Elias and Geordie Williamson and all participants of the Mathematical Sciences Research Institute (MSRI) 2017 Summer School on Soergel bimodules and categorical representation theory

TEACHING EXPERIENCE

Instructor of Record — University of Virginia

· MATH 1210: Survey of Calculus I — Fall 2016, Spring 2017, Fall 2017
· MATH 1310: Calculus I — Fall 2019
· MATH 1320: Calculus II — *(Scheduled for)* Spring 2020

Graduate Teaching Assistant — University of Virginia

· MATH 2310: Multivariable Calculus — Fall 2015
· MATH 3000: Transition to Higher Mathematics — Spring 2016

TALKS PRESENTED

AMS Southeastern Sectional Meeting at Charlottesville, VA — March 13-15, 2020
Special Session on Categorical Representation Theory and Beyond

· Title: *TBD*

University of Georgia Algebra Seminar *(Scheduled for)* November 18, 2019

· Title: *TBD*

University of Virginia Algebra Seminar November 1, 2019

· Title: *TBD*

AMS Fall Central Sectional Meeting at Madison, WI September 14-15, 2019
Special Session on Hall Algebras, Cluster Algebras and Representation Theory

· Title: *Serre presentation for ıQuantum Covering Groups*

Representation Theory Reading Seminar September 14-15, 2019
Special Session on Hall Algebras, Cluster Algebras and Representation Theory

· Abstract title: *Serre presentation for ıQuantum Covering Groups*

SERVICE

· **Co-Mentor, Summer 2019 REU at University of Virginia** Summer, 2019
With fellow graduate student Andrew Kobin, guided our mentees Spencer Martin and Will Donahoe through understanding the dimension formulas for spaces of modular forms, two presentations, and a poster presentation at the 2019 SUMS conference at JMU.

· **Mentor, Directed Reading Program at University of Virginia** Spring, 2019
Guided my DRP mentee Joseph Snitzer through a selection of category theory texts and blog posts to understand the Yoneda Embedding, and prepare for a presentation during UVa's Math 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 chapter with fun activities aimed at engaging middle and high school girls with concepts in topology

· **UVa Math Ambassador** 2017-18
UVa's Mathematics outreach program to Albemarle County and Charlottesville city schools.

· **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: Mathematica, MATLAB. Experience with: Maple, Python, R and Stata.
Languages	Proficient: English, Mandarin Chinese, and Malay. Learning: French.