

Ryan Reynolds

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Department of Mathematics
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Education

Ph.D. Candidate in Mathematics (Advisor: Dr. Jonathan Kujawa).

M.A. Mathematics, University of Oklahoma, 2018.

B.S. Mathematics, University of California-Davis, 2015.

A.S.-T Mathematics, Napa Valley Community College, 2013.

Research Interests

Representation Theory, Combinatorics, and Category Theory. In particular, diagrammatic categories and their categorical representations.

Research Experience

Ph.D Thesis: Diagrammatic categories which arise from the study of finite subgroups of $SU(2)$ (Advisor: Dr. Jonathan Kujawa)

Senior Thesis: Rigged Configurations and Catalan Objects: Completing a Commutative Diagram with Dyck Paths and Rooted Planar Trees 2015 (Advisors: Dr. Anne Schilling and Travis Scrimshaw)

Conferences and Seminars

Talks Given

Algebras out of Diagrams! What'll They Think of Next? Algebra and Representation Theory Seminar, University of Oklahoma: Fall 2019

Partition Algebras: Schur-Weyl Not? Graduate Algebra Symposium, University of Oklahoma: Spring 2019

An Algebraic Representation Theory of a Semigroup Graduate Algebra Symposium, University of North Texas: Spring 2018

Attended

QUACKS II: 2022

Southeastern Lie Theory Workshop X: 2018

Graduate Algebra Seminar: Fall 2018, Spring 2019, Fall 2019, Spring 2021

Teaching Experience

University of Oklahoma

Instructor of Record

Differential and Integral Calculus I: Fall 2022

Business Calculus I: Fall 2018

Precalculus and Trigonometry: Fall 2016, Spring 2017, Fall 2017 ($\times 2$).

College Algebra: Fall 2015, Spring 2016, Summer 2016.

Discussion Leader

Calculus & Analytic Geometry I: Fall 2021

Calculus & Analytic Geometry II: Spring 2018, Fall 2019, Spring 2021

Calculus & Analytic Geometry III: Fall 2020

Grader

Calculus & Analytic Geometry IV: Spring 2020 ($\times 2$)

Applied Modern Algebra: Spring 2020

Introduction to Abstract Algebra II: Spring 2019

Introduction to Abstract Algebra I: Spring 2019

Physical Mathematics I: Summer 2018

Service and Outreach

University of Oklahoma

Undergraduate Mathematics Tutor: 2015-Present

Student Algebra Seminar Organizer: 2018-2020

President of Mathematics Graduate Student Association: 2018-2020

Directed Reading Program Mentor: Spring 2019, Fall 2019

Editor of Coordinated Student Workbook for Precalculus and Trigonometry: Summer 2017