

Colin M. Lawson

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Education History

UNIVERSITY OF NORTH TEXAS, Ph.D. in mathematics Estimated May 2023

- Thesis advisor: Dr. Anne V. Shepler
- Research areas: Noncommutative algebra and deformation theory
- Thesis title: *Hochschild cohomology of finite cyclic groups acting on polynomial rings*

SAM HOUSTON STATE UNIVERSITY, M.S. in mathematics May 2014

SCHREINER UNIVERSITY, B.A. in mathematics and B.B.A. in accounting May 2012

Published Papers and Preprints

1. *Deformation cohomology for cyclic groups acting on polynomial rings* with Anne V. Shepler, submitted 2022. <https://arxiv.org/abs/2210.12245>
2. Ph.D. Thesis: *Hochschild cohomology of finite cyclic groups acting on polynomial rings*. Expected submission Spring 2023.

Teaching Experience

UNIVERSITY OF NORTH TEXAS, Class sizes: min 15, max 114

- Instructor:
 - Calculus I, Summer 2021
 - Pre-Calculus, Fall 2018, Spring 2019, Fall 2020, Spring 2021, Spring 2022
 - Integrated Pre and Beginning Algebra, Fall 2019
- TA Instructor:
 - Calculus II, Fall 2016, Fall 2021
 - Calculus I, Spring 2017, Spring 2020, Summer 2020
 - Pre-Calculus, Fall 2017, Spring 2018

SAM HOUSTON STATE UNIVERSITY, Class sizes: min 14, max 90

- Instructor:
 - Elementary Functions, Spring 2016
 - Plane Trigonometry, Spring 2016
 - Pre-Calculus, Spring 2014, Fall 2015, Spring 2016
 - College Mathematics, Fall 2015, Spring 2016
 - Intermediate Algebra, Spring 2013, Fall 2013

TRINITY HIGH SCHOOL, Class sizes: min 7, max 21

- Teacher:
 - Honors Geometry, Fall 2014 – Spring 2015
 - Geometry, Fall 2014 – Spring 2015
 - STAAR (Texas Assessment) Readiness course, Fall 2014 – Spring 2015
 - TSI (Texas Success Initiative) course, Fall 2014 – Spring 2015

Honors and Awards

- Outstanding Teaching Fellow of Mathematics Award, UNT 2020 – 2021
- Outstanding Mathematics Graduate Student Award, UNT 2019 – 2020

Talks and Presentations

CONFERENCE TALKS

- ICRA (Int'l Conference on Reprs. of Algebras), Buenos Aires, Argentina August 2022
Deformation cohomology for cyclic group actions on polynomial rings
- GAS (Graduate Algebra Symposium), UT-Arlington April 2022
Deformation cohomology for cyclic group actions on polynomial rings
- TORA (TX-OK Rep. & Automorphic Forms), OSU April 2022
Deformation cohomology for cyclic group actions (poster)
- SLAM (Southwest Local Algebra Meeting), Baylor University February 2022
Deformation cohomology for cyclic group actions (poster)
- GAS (Graduate Algebra Symposium), OU April 2021
Graded deformations of skew group algebras (online)

TALKS AT THE UNIVERSITY OF NORTH TEXAS

- Algebra Seminar, *Deformation cohomology for cyclic group actions* March 2022
- Graduate Algebra Group, *Deformations of associative algebras* March 2022
- Graduate Algebra Seminar, *Graded deformations of skew group algebras* April 2021
- Algebra Seminar, *Hochschild cohomology and deformations* November 2019
- Graduate Algebra Group, *Advice for qualifying exams practice* November 2019
- Algebra Seminar, *An introduction to Koszul complexes* April 2019

Professional Service and Community Outreach Activities

ORGANIZER OF CONFERENCES AND SEMINARS

- Graduate Algebra Symposium (organizer), Fall 2020, Fall 2021, Spring 2022
Regional algebra conference by and for graduate students, joint with UNT, OU, UTA, TAMU
- Math Grad Student Seminar (co-creator), UNT, Fall 2019 – Spring 2020
Weekly seminar on professional aspects, such as advisor selection and career opportunities
- TX-OK Rep. & Automorphic Forms (assistant organizer), UNT, April 2019
Providing support to the conference attendees and local organizers
- UNT Math Department (grad student recruiter), Fall 2019 – present
Showing prospective graduate students the campus and answering questions about the program
- UNT Math Department (grad student mentor), Fall 2016 – present
Guiding incoming graduate students as they navigate their first year in the program

OUTREACH

- REU, Sam Houston State University in Huntsville, July 13, 2022
Short presentation, speaking about the perks and challenges I experienced in grad school
- STEM Interest Community, UNT Honors College, October 14, 2020
Informal Q & A session about my experience in grad school in math
- MATH MashUp: “Math and Sandpiles” (creator), Sabinal Public Library, July 14, 2020
Outreach event for middle- and HS-aged students interested in math (24 participants)
- STEM Expo, I.M. Terrell Academy Magnet High School in Ft. Worth, November 19, 2019
Classroom presentations ($\times 7$), speaking on sandpile groups (about 15 students per class)
- Math and Science Camp, McMath Middle School in Denton, November 2, 2019
Classroom sessions ($\times 4$), leading the “31-derful” challenge activity (about 7 students per class)
- UNT Make A Difference Day, Shiloh Fields Garden in Denton, October 26, 2019
Farm work, helping the garden continue to produce food for low income families