Taylor Murray   **Curriculum Vitae**

CONTACT
INFORMATION   *Email:*tmurray11@huskers.unl.edu

EDUCATION

University of Utah, Salt Lake City, Utah, USA
     BS, May 2020.

University of Nebraska-Lincoln, Lincoln, Nebraska, USA
     MS, August 2023.

University of Nebraska-Lincoln, Lincoln, Nebraska, USA
     Ph. D., 2021-now. Advisor: Jack Jeffries.

SERVICE AND
ORGINIZATION

- Co-organizer: CARS, Commutative Algebra Reading Seminar, University of Nebraska-Lincoln, 2023.
- Co-organizer: URiCA, Upocoming Researchers in Commutative Algebra 2022-present.

HONORS AND
AWARDS

- Dean's List, University of Utah, Salt Lake City, Utah, 2019-2020.
- Outstanding Qualifying Exam, University of Nebraska-Lincoln, 2022.
- Graduate Research Assistant, University of Lincoln-Nebraska, Lincoln, Nebraska, Summer 2022.

SEMINAR TALKS

- *An Introduction to DG Algebras and DG Modules*, CARS, Commutative Algebra Reading Seminar, University of Nebraska-Lincoln, 2021.
- *What is Local Cohomology?*, CARS, Commutative Algebra Reading Seminar, University of Nebraska-Lincoln, 2022.
- *What is Local Cohomology?*, CARES, Commutative Algebra Regional Expository Seminar, Zoom, 2022.
- *Differential Operators and Local Cohomology*, CARS, Commutative Algebra Reading Seminar, University of Nebraska-Lincoln, 2023.
- *Graded Local Cohomology and *Bass Numbers*, CAS, Commutative Algebra Seminar, University of Nebraska-Lincoln, 2023.

TEACHING
EXPERIENCE   **Math Center Tutor**   **August 2018 - August 2021**

- University of Utah in Salt Lake City, Utah.

- Tutored students in a diverse number of topics, including but not limited to: Calculus 1-3, differential equation, linear algebra, discrete mathematics, number theory, and real analysis.
- During predesignated times of the week, I exclusively tutored for undergraduate real analysis courses.

Math Center Grader   **August 2018 - August 2021**

- University of Utah in Salt Lake City, Utah.
- Supplied aid to professors by grading homework or exams.
- Graded homework in the following subjects: quantitative reasoning, college algebra, trigonometry, calculus 2, differential equations, and real analysis.

University of Nebraska-Lincoln

- MATH 106 Calculus 1, Fall 2021.
  Role: Recitation Leader.
  Description: Students learn about limits, differentiation, continuity, applications of derivatives, and the basics of integrals.
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- MATH 106 Calculus 1, Spring 2022.
  Role: Recitation Leader.
  Description: Students learn about limits, differentiation, continuity, applications of derivatives, and the basics of integrals.
- MATH 106 Calculus 1, Summer 2022.
  Role: Recitation Leader.
  Description: Students learn about limits, differentiation, continuity, applications of derivatives, and the basics of integrals.
- MATH 203 Contemporary Mathematics, Fall 2022.
  Role: Instructor of Record
  Description: Students attain basic understanding and familiarity of statistical methods, voting theory, disease modeling, and graph theory.
- MATH 101 College Algebra, Spring 2023.
  Role: Instructor of Record.
  Description: Students learn about basic operations of functions. They also gain an understanding of linear, exponential, logarithmic, polynomial, and rational functions as well as how to apply their understanding to real-world examples.

- MATH 101C Corequisite College Algebra, Fall 2023.

  Role: Instructor of Record.

  Description: Students learn about basic operations of functions. They also gain an understanding of linear, exponential, logarithmic, polynomial, and rational functions as well as how to apply their understanding to real-world examples. In addition, interspersed throughout the course are relevant background topics to aid in student understanding.