# Cleveland State University
## College of Science

# COLLOQUIUM

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## Explorations in Resources for Linear Algebra Courses

## Friday October 28th at 2:30pm in RT 1516

*Bio:* Anna Davis received her Ph.D. in Mathematics in the area of geometric topology from the University of Kentucky. She is an Associate Professor of Mathematics and Data Science at Ohio Dominican University (ODU) in Columbus, OH. She is a long-time creator, user and advocate of Open Educational Resources (OERs). She is a founding member of the Ohio Open Ed Collaborative (OOEC), a statewide effort funded by the ODHE Innovation grant. Most recently, she has been serving as an ODU PI for the "Ohio TechNet Northeast Ohio Semiconductor Workforce Consortium," a partnership of eleven institutions of higher education, funded by Intel and led by Lorain County Community College. In this capacity she will oversee the development of several OERs aimed at workforce development for the semiconductor industry. Anna's research areas include topology, linear algebra, and connections between art and mathematics.

*Bio*: After teaching high school for seven years, Paul Zachlin earned his Ph.D. in Applied Mathematics from Case Western Reserve University, completing the degree in 2007. Since that time he has enjoyed his career as a professor at Lakeland Community College. When not teaching, Paul enjoys spending time with family, playing and coaching sports, and doing math research – with a focus on eigenvalue inclusion regions. For the past five years Paul has also served on the leadership team for the Crooked River Math Teacher Circle, which provides professional development for K-12 teachers.

*Abstract*: In 2018, the Ohio Open Ed Collaborative (OOEC) sponsored the development of a Linear Algebra OER that meets the Ohio Transfer Module standards. The text was developed using the interactive XIMERA platform. The first edition of the text became available in January 2019 and since then has been used by multiple instructors at several institutions. Based on experience and feedback, two of the original authors returned to the project in 2022 to improve and expand the text. In this presentation we will highlight new additions to the text, such as many new GeoGebra interactives, and discuss how this text can be customized, re-mixed, and used in the classroom.

# Refreshments will be served in RT 1517 at 2:10pm