



Mathematics & Statistics Colloquium

When: Wednesday, September 10, 2:00 pm - 2:50 pm

Where: Lee Drain Building 400

Statistics Content in Elementary Textbooks

Lindsay Hixon

In our work, we investigate the nature and extent of statistical content in U.S. textbooks for elementary students by examining five textbooks series. We coded statistics questions into four phases: Formulate a Question, Collect Data, Analyze Data, and Interpret Results. Our analysis determined the location of the statistics tasks, the distribution of the phases, and the types of displays that appeared in each textbook. Our results suggest that textbooks do not place equal emphasis on the different phases of the statistical process. Textbooks predominantly focus on analyzing data, which may inadvertently restrict opportunities for students to generate and interpret data. Our research was supervised by Dr. Dusty Jones and funded by NSF grant DMS-1262897.

Omega Values of the Generators of Primitive

Numerical Monoids

Jillian Parker

We will provide simple formulas for determining the omega values of a primitive numerical monoid in any embedding dimension, where the set S is generated by a generalized arithmetic sequence of the form $\langle a, ah + d, ah + 2d, \dots, ah + xd \rangle$ where a , d , h , and x are positive integers and $\gcd(a, d) = 1$. Our research was supervised by Dr. Scott Chapman (Sam Houston State University) and funded by NSF grant DMS-1262897.