



The Math/Stats Colloquium
Department of Mathematics and Statistics
San José State University



Marion Campisi

SJSU

*Vertex Distortion
of Lattice Knots*

OCT 27, 2021, VIA ZOOM

Abstract: A knot is a smooth embedding of a circle into 3-dimensional space. One could ask how much the particular embedding distorts the metric on the circle. In general this is a hard question to answer and few sharp bounds exist. A lattice knot is a knot comprised of line segments in the integer lattice. In this context measuring the distortion of knots becomes more tractable. In this talk we will discuss interesting results and open questions about the vertex distortion of lattice knots.

Background: No particular background required.

About the speaker: Marion Campisi is an Associate Professor in the Math/Stats department at SJSU. She earned her Ph.D. in 2010 from UC Davis. Her research interests include low dimensional topology, knot theory and the mathematics of redistricting.

COLLOQUIUM BROADCAST VIA ZOOM, 4:15PM PACIFIC

EMAIL tim.hsu@sjsu.edu FOR AN INVITATION

For our full schedule, see: <http://www.timhsu.net/colloq/>