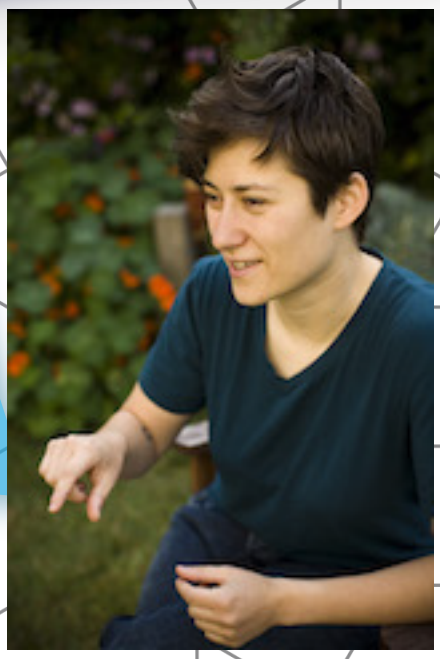
Department of Mathematics and Statistics

COLLOQUIUM



Moon Duchin

Tufts University

Department of Mathematics

Coloring in space

In 1950, an undergraduate asked, Suppose you want to assign a color to every point in the Euclidean plane such that no two points at distance D from each other share the same color. How many colors are required? Believe it or not, we still don't know the answer. I'll pull a classic mathematician move: if you can't answer a question, make it harder. So we'll look at a non-Euclidean version of the same question. No background knowledge required.

TUESDAY, OCTOBER 6th **SCIENCE CENTER 199**

Refreshments 4:15

Talk 4:30

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