Dr. Julia Pevtsova
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presented by

The UO Student Chapter of the Association for Women in Mathematics

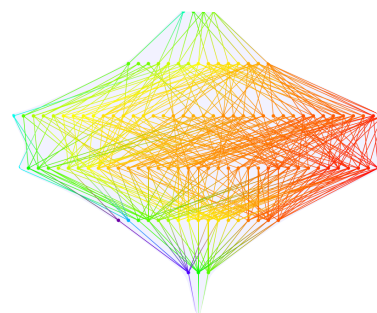## Math Outreach: local, global and interconnected

Wednesday, April 13, 2022, 3-4pm in TBD
Everyone is welcome to attend!

In this presentation, I will talk about the outreach projects I'm involved with in Seattle, and then turn the mic to the audience to learn about their experiences, thoughts, and ideas for the future, turning this talk into a discussion. I am also interested in discussing online initiatives which – naturally - expanded significantly during the pandemic and now are benefiting some of the displaced children from Ukraine.

Wild representation theories

Thursday, April 14, 2022, 4-5pm in TBD

Abstract: Representation theory studies symmetries or actions of groups on vector spaces. In a nicely structured world one could hope to classify such actions given some reasonable constraints: a classical example is the classification of regular tilings of a 2-dimensional plane beautifully illustrated in Escher's collection of "symmetry" prints. I'll review the classical theory and move to the settings where such classifications are utterly impossible giving the theories a technical but eloquent name of being "wild".