



DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

## Colloquium

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THREE ANGLES ON TROPICAL GEOMETRY

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**ABSTRACT:**

The field of tropical geometry is relatively young and developed in several areas of mathematics and computer science independently. I begin with a classical source of tropical geometry: Newton's work on "sketching" polynomials. This motivates two different, but related viewpoints that are useful to describe limits of geometric objects, and to compute and enumerate algebraic sets. I also describe how Thurston's compactification of Teichmüller space fits into this framework and provides a blueprint for other applications.

**4 – 5pm, Wednesday, April 12, 2023**

**Room 204, Smith Hall**