

*Title.* Tropical methods for moduli spaces in algebraic and complex geometry.

*Abstract.*

The talk will be a survey illustrating methods from tropical and non-Archimedean geometry applied, over the last twenty years, to study moduli spaces of Riemann surfaces (on the complex geometric side) and stable algebraic curves (on the algebro-geometric side). We will describe applications to Brill-Noether theory (on linear series on Riemann surfaces) and to the topology of the moduli spaces of algebraic curves.