

Berkeley Algebraic Statistics Seminar

Organizer(s): and Andrew Critch and Shaowei Lin

Wednesday, 2:00–3:00pm, 939 Evans

Sep 21 **Ngoc Mai Tran**, UC Berkeley

Combinatorial types of tropical eigenvector with applications to ranking

In this talk we explore the application of tropical eigenvector to statistical ranking. This leads us to studying cones of linearity of the tropical eigenvalue-eigenvector map. These cones are in bijection with connected functions, they are simplicial but they do not form a fan. Given time, we shall mention an immediate open problem of both practical and theoretical interest, which is computing the cones' relative volume.

Joint work with Bernd Sturmfels.