## JAROD ALPER, Stanford University

Good moduli spaces for Artin stacks

I will introduce a stack-theoretic approach to geometric invariant theory and develop an intrinsic theory for associating to arbitrary Artin stacks schemes or algebraic spaces with nice geometric properties. I will define the notion of a good moduli space which simultaneously generalizes the existing notions of good GIT quotients and tame stacks. This theory will be used to explore the local structure of Artin stacks and in particular address the question concerning whether Artin stacks are locally quotient stacks.