## **Combating Conservativeness in Data-Driven Optimization under Uncertainty** Henry Lam, Columbia University

In data-driven optimization, solution feasibility is often ensured through a "safe" reformulation of the constraints. Such approaches involve implicit set estimation and, if mishandled, could lead to over-conservative solutions. We show a strategy to exploit the intrinsic low dimensionality of reformulated solution sets to obtain feasible solutions that are, in a sense, asymptotically optimal among considered classes of reformulations with light dependence on problem dimensions.