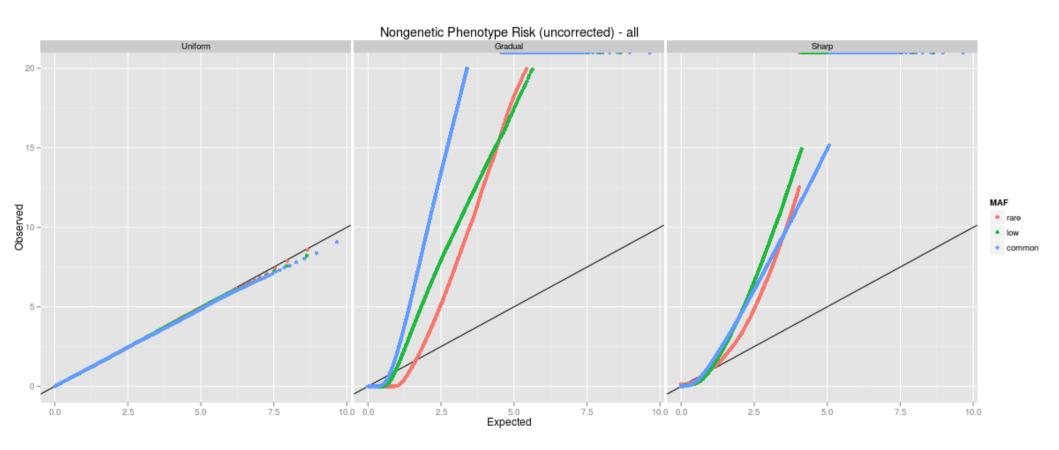
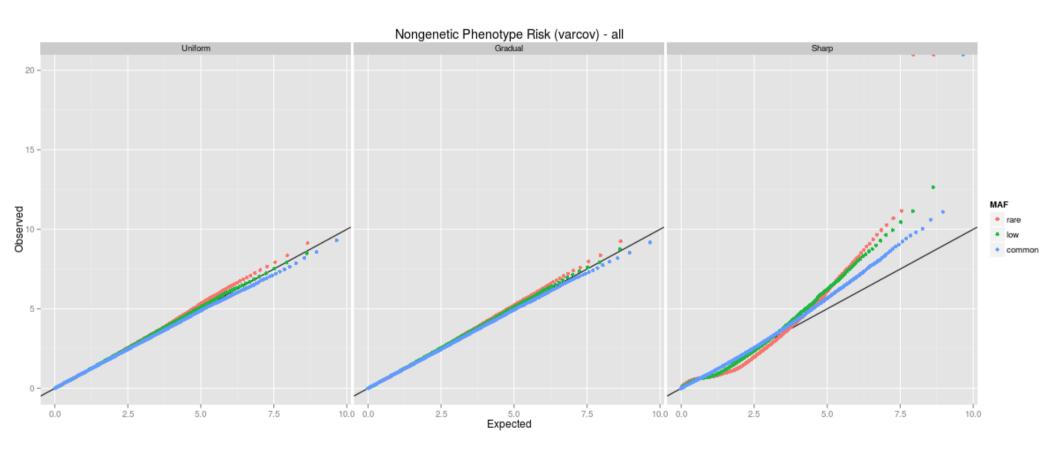
To discuss

- Listgarten paper
 - FaST LMM
- New test statistic scaling estimate
 - See pdf
 - This is key for controlling type I error for rare variants. See comparison of Gold standard with scaling vs without scaling.
 - Still using asymptotics
- Plots: Key points
 - Uncorrected < PCA < Jaccard < GoldStandard
 - Jaccard still not controlling type I error as well as Gold standard, but outperforming (very slightly) PCA

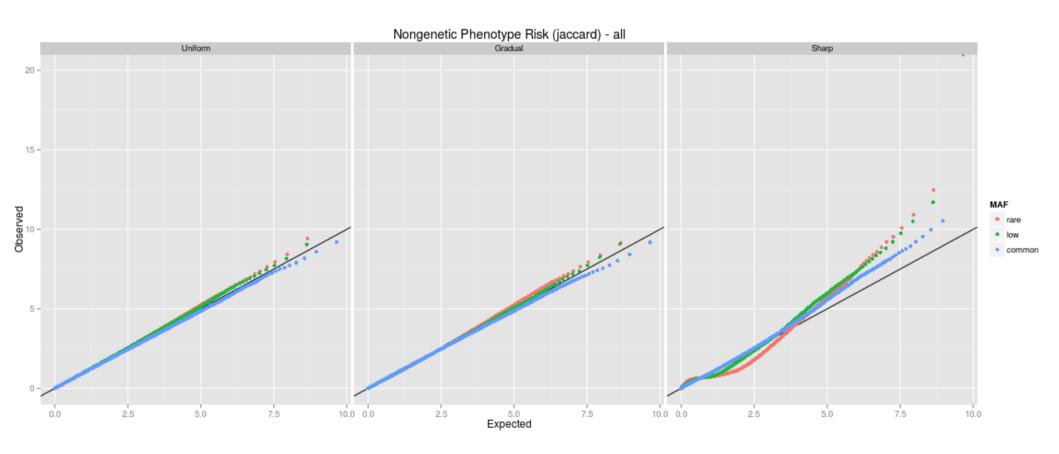
Uncorrected



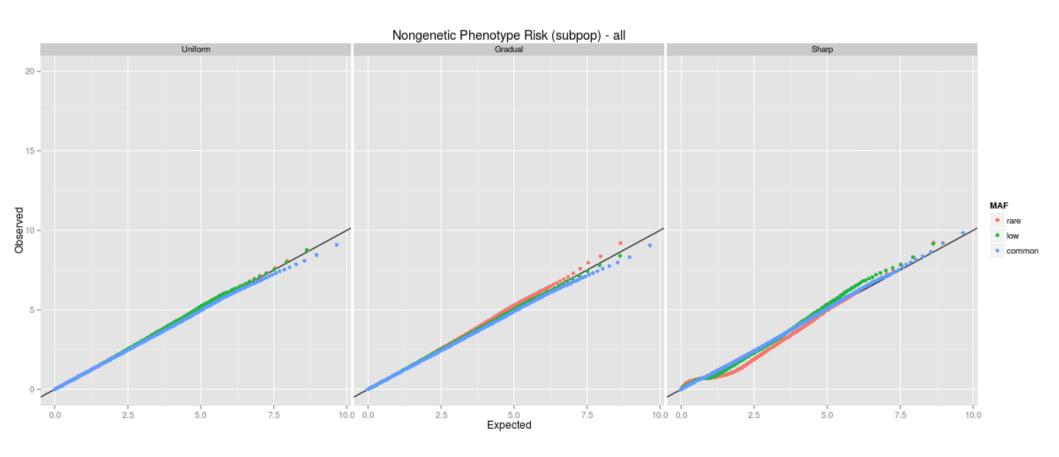
PCA



Jaccard



Subpop label (gold standard)



Subpop label (gold standard) (unscaled test statistic)

