

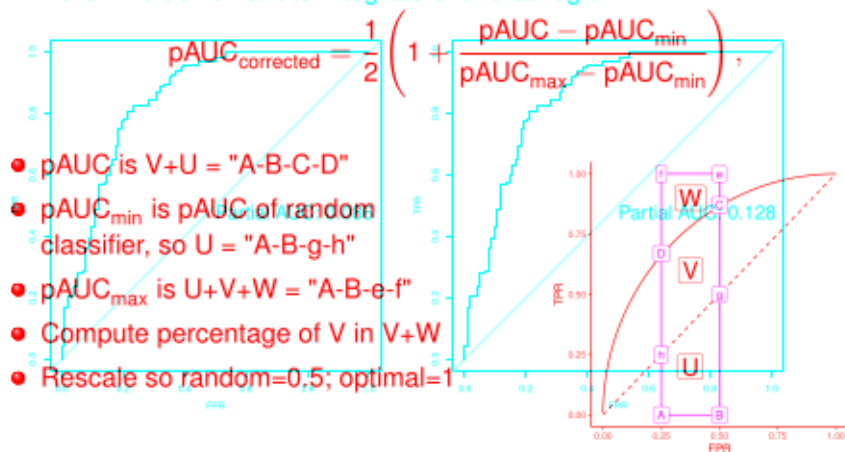
PARTIAL AUC

- TPR and FPR often treated asymmetrically in biomed contexts
- TPR = disease detection, is crucial
- But low FPR needed to avoid unnecessary treatments
- Common solution: Fix either TPR or FPR to a required value and optimize the other, but not easy to select exact point



CORRECTED PARTIAL AUC

- Can be useful to limit region under ROC curve
- Range of pAUC depends on cut-off values
- E.g. $FPR > 0.2$ or $TPR < 0.8$ might not be acceptable for task, then we don't want to integrate over that region



2WAY PARTIAL AUC

- Can also limit both TPR and FPR
- 2way pAUC = compute area under 2way limited segment

