Heatmap of Contingency Tables for Real and Synthetic Data on COMPAS Dataset COMPAS (FairTGAN) COMPAS (Real) COMPAS (FairCB) **COMPAS (Ours)** -0.40Female Female Female Female Female Female Female Female -0.35No Yes No Yes No Yes Yes No 0.1079 0.0714 0.1206 0.0516 0.1006 0.0722 0.2508 0.2224 -0.30sex -0.25-0.20Male Male Male Male Male Male Male Male No No Yes Yes No Yes No Yes -0.150.3884 0.3695 0.3994 0.4278 0.2479 0.4323 0.4583 0.2789 -0.10is recid is recid is recid is recid COMPAS (Real) COMPAS (FairCB) COMPAS (FairTGAN) **COMPAS** (Ours) -0.30African-American African-American African-American African-American African-American African-American African-American African-American Yes Yes No Yes Yes No No No 0.2618 0.2367 0.3069 0.2200 0.3163 0.2776 0.0840 0.0868 -0.25Asian Asian Asian Asian Asian Asian Asian Asian No No Yes No Yes Yes No 0.0041 0.0006 0.0023 0.0716 0.0010 0.0010 0.0744 0.0000 -0.20Caucasian Caucasian Caucasian Caucasian Caucasian Caucasian Caucasian Caucasian Yes Yes Yes Yes No No No race 0.1834 0.1391 0.1921 0.1680 0.1440 0.1649 0.0835 0.0916 -0.15Hispanic Hispanic Hispanic Hispanic Hispanic Hispanic Hispanic Hispanic 0.0317 0.0356 0.0415 0.0323 0.0907 0.0445 0.0443 0.0834 -0.10Native American Native American Yes Yes Yes No No No No Yes 0.0012 0.0022 0.0004 0.0010 0.0001 0.0011 0.0828 0.0875 -0.05Other Other Other Other Other Other Other Other Yes Yes Yes 0.0264 0.0180 0.0327 0.0187 0.0254 0.0231 0.0833 0.0805 is_recid is_recid is_recid is_recid