XGBoost output, 2HDMa a150 H1500 tb10 ee dataset, uscaled validation data Background Signal  $10^{6}$ 10<sup>5</sup>  $10^{4}$ Events 10<sup>3</sup>  $10^{2}$  $10^{1}$ 10<sup>0</sup> 0.4 0.2 0.0 0.6 8.0 1.0 XGBoost output