XGBoost output, 2HDMa a450 H600 tb5 D10 ee dataset, uscaled validation data Background Signal  $10^{4}$ 10<sup>3</sup> Events 10<sup>2</sup> 10<sup>1</sup> 10<sup>0</sup> 0.4 0.2 0.0 0.6 8.0 1.0 XGBoost output