



Figure 1: We study a prediction model on feature vectors with differential under-reporting  $X$  where true outcomes  $Y$  are a function of the latent ‘true’ features  $Z$ . Missingness  $\xi$  is influenced by group membership  $G$ . We consider both cases in which feature distributions vary by group membership and cases with  $G \perp Z$ . In our setting, missingness indicators  $\xi$  are unobserved and group membership  $G$  is only used for model evaluation and not as a feature. The graph reflects the dependencies at prediction time.