A Extra plots from the experiment on the simulated dataset

The panel in Figure 1(a) shows the binary masks used to generate the simulated dataset in Section 4.1 (plots with labels \(w_1, \ldots, w_5\)) together with five data examples (remaining plots). Notice that the binary string below each example indicates the features that are present. The panel in (b) shows the true hidden sequence \(X_{true}\) that generated the observations. The panel in (c) shows the three inferred hidden sequences (each considered to be the final value of \(X\) after applying a large number of MCMC iterations) for the three block Gibbs samplers: the first plot from the top corresponds to BG1, the second to BG2 and the last to BG3. Notice that all these inferred sequences do not match the ground-truth shown in (b). Finally, the panel in (d) shows the corresponding inferred hidden sequences found by the HB algorithms: the first plot from the top corresponds to HB1, the second to HB2 and the last to HB3.

![Figure 1](image-url)

Figure 1: See main text for explanation.