Gibbs Sampling

$$p(x_1, x_2, x_3) = \frac{\widehat{p}(x_1, x_2, x_3)}{Z}$$

Start with (x_1^0, x_2^0, x_3^0), e. g. $(0, 0, 0)$

$$x_1^1 \sim p(x_1 \mid x_2 = x_2^0, x_3 = x_3^0)$$

$$= \frac{\widehat{p}(x_1, x_2^0, x_3^0)}{Z_1}$$