mean-field Démo

W-W

Ye it you sont Linuxus

 $p(Y_1,Y_0|x) = \exp(Y_1,\alpha_1(x) + Y_2,\alpha_2(x) + Y_1,Y_2,v) / Z(x)$ 

 $9(Y_{i},Y_{o}) = 9(Y_{i}) 9(Y_{o})$   $9(Y_{i}) = Y_{i} n_{i} + (1-Y_{i})(1-p_{i})$ 

 $\begin{pmatrix} Y_i = 1 \rightarrow \mu_i \\ Y_i = 0 \rightarrow 1 - \mu_i \end{pmatrix}$ 

KL (9(4, 40) 11 p(4, 401x)) = - 2 2 9(4, 40) log 9(40)

= = = 7(x,)9(x) log (9(x,)9(x))

- \(\frac{2}{7}\) \(\frac{2}\) \(\frac{2}{7}\) \(\frac{2}\) \(\frac{2}7\) \(\frac{2}\) \(\frac{2}7\) \(\frac{2

Z / Z 9(4,) 9(4,) log 9(4,)

+ E = 9(4) 19(42) log 9(42)

- E E 7(41)9(Y2)[Y, 5(x) 1 /2 90(x) + Y, Y2V]

+ \$ \$ 9(4) 9(4,) log Z(x)

= m log m + (1-m) log (1-m)
+ h log m + (1-m) log (1-m)
- mailx) - h 20(x) - m po V

On somhaite minimiser ga avec la contrainte p. E[0,1] et p. E[0,1]

1+exp(-a,(x)-h,v) 1+ cxp (-90(x)-1,v)