$$h^s=\sum_{i=1}^n a_i^{s-1}g_i$$

$$G = (g_1, \dots, g_n) \ d imes n$$
 matrix

$$a_s=(a_1^{s-1},\ldots,a_n^{s-1})'\ n imes 1$$
 vector

$$h^s = Ga_s$$

$$[h^1,\ldots,h^T]=G[a_1,\ldots,a_T]$$

$$y_t = \sum_{s=0}^{H} \langle h^s, u_{t-s}
angle = \langle Hvec, Uvec
angle = Hvec' Uvec$$

$$Hvec = [(h^0)', \dots, (h^H)']' = vect(Hmat)$$

$$d(H+1) imes 1$$

$$Uvec = [u_t', \dots, u_{t-H}']'$$

$$d(H+1) \times 1$$