$xD_k = W_{i,n} * hD_l$ 3. Transfer back to W $W_i = xA|xD$ And the column transform is represented by: 1. initialize yA and yD to zero 2. $\forall k \in rows$, $\forall l \in filter$ \bullet n=k-l• if $(n \in columns)$ $yA_k = W_{i,n} * hA_l$ $yD_k = W_{i,n} * hD_l$ 3. Transfer back to W $W_i = yA|yD$

1. Initialize xA and xD to zero

2. $\forall k \in columns, \quad \forall l \in filter$

• if $(n \in columns)$

 $xA_k = W_{i,n} * hA_l$

 \bullet n=k-l