$f = a$, showing $f(T) - f(0)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$

θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$

θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$

θ_0

a_0 a_0 a_0 a_0

5
0
-5

$f = a$, showing $f(T)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$

θ_0

a_0

10
8
6
4
2

$f = \theta$, showing $f(T) - f(0)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$

θ_0 (each row) × a_0 (each column)

1.5
1
0.5
0

$f = \theta$, showing $f(T)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$

θ_0 (each row) × a_0 (each column)

1.5
1
0.5

$f = \overline{\alpha_W}$, showing $f(T) - f(0)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$ θ_0

a_0 a_0 a_0 a_0

0.6
0.4
0.2
0

$f = \overline{\alpha_W}$, showing $f(T)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = 0.4$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = 0.2$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = 0$ θ_0

a_0 a_0 a_0 a_0

0.6
0.4
0.2
0

$f = \Delta Y | p_{\text{inc}}^{\text{test}} = 0$, showing $f(T) - f(0)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$

θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$

θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$

θ_0

a_0 a_0 a_0 a_0

0.5
0
-0.5

$f = \Delta Y | p_{\text{inc}}^{\text{test}} = 0$, showing $f(T)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$ θ_0

a_0 a_0 a_0 a_0

0.8
0.6
0.4
0.2

$f = \Delta Y | p_{\text{inc}}^{\text{test}} = 0.2$, showing $f(T) - f(0)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$ θ_0

a_0 a_0 a_0 a_0

0.5
0
-0.5

$f = \Delta Y | p_{\text{inc}}^{\text{test}} = 0.2$, showing $f(T)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$

θ_0

a_0

0.8
0.6
0.4
0.2

$f = \Delta Y | p_{\text{inc}}^{\text{test}} = 0.4$, showing $f(T) - f(0)$

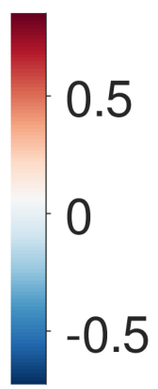
no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$ θ_0

a_0 a_0 a_0 a_0



$f = \Delta Y | p_{\text{inc}}^{\text{test}} = 0.4$, showing $f(T)$

no IP | **gain plast** | **threshold plast** | **full IP**

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0}$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.2}$ θ_0

$\mathbf{p}_{\text{inc}}^{\text{train}} = \mathbf{0.4}$ θ_0

a_0 a_0 a_0 a_0

0.8
0.6
0.4
0.2