$x \in \mathbb{R}^{d_{in}} \rightarrow$ $y = \langle \phi_\Theta(x), v_\Theta \rangle$

$\phi_\Theta(x)$: **Neural Path Feature** v_Θ : **Neural Path Value**

⬤ **active/on gate**   ⬤ **inactive/off gate**   — **active path**   — **inactive path**