

Input AST pattern

Input transform context

Function body

$trans_S \llbracket \text{import } alias^* \rrbracket (\sigma) =$

**LET**  $\sigma_1 = trans_{\overline{A}} \llbracket alias^* \rrbracket (\sigma)$  **IN**

**IF**  $\sigma_1 \setminus \sigma = [\text{"tensorflow"} \mapsto id]$

**THEN**  $([\text{import } alias^*, \text{import horovod.tensorflow as hvd}], \sigma_1)$

**ELSE**  $([\text{import } alias^*], \sigma_1)$

Output pair of (AST, Transform context)