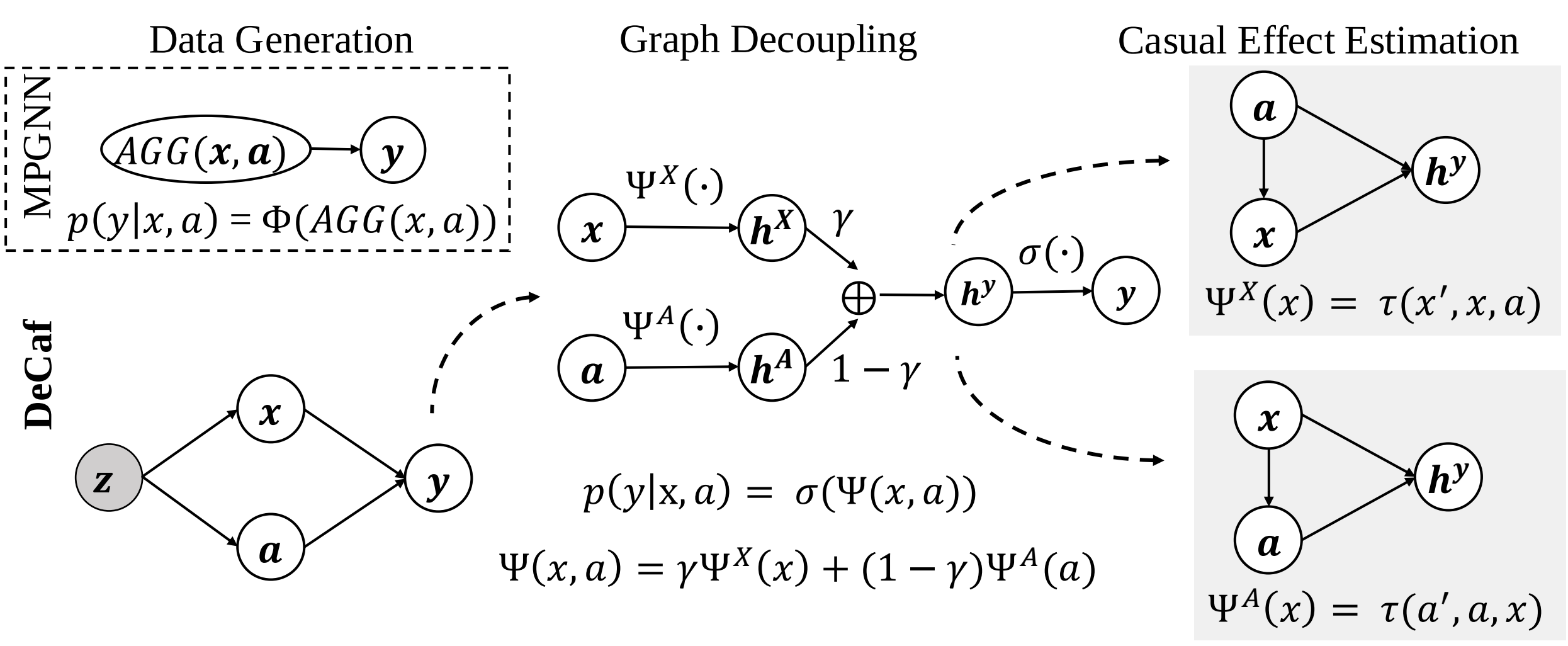
Data Generation
Graph Decoupling
Casual Effect Estimation
MPGNN
$AGG(\boldsymbol{x},\boldsymbol{a})$
$\boldsymbol{y}$
$p(y|x,a) = \Phi(AGG(x,a))$
DeCaf
$\boldsymbol{z}$
$\boldsymbol{x}$
$\boldsymbol{a}$
$\boldsymbol{y}$
$\Psi^X(\cdot)$
$\boldsymbol{h^X}$
γ
$\Psi^A(\cdot)$
$\boldsymbol{h^A}$
$1-\gamma$
$\boldsymbol{h^y}$
$\sigma(\cdot)$
$p(y|\mathrm{x},a) = \sigma(\Psi(x,a))$
$\Psi(x,a) = \gamma\Psi^X(x) + (1-\gamma)\Psi^A(a)$
$\Psi^X(x) = \tau(x',x,a)$
$\Psi^A(x) = \tau(a',a,x)$