

VAE pretrained on TCGA

Clinical covariates
(age, stage, ...)

\mathbf{x} : genes

Encoder

\mathbf{z} (latent)

Concatenate
 $[\mathbf{z}; \mathbf{c}]$

Cox PH
 $\eta = \boldsymbol{\beta}^\top [\mathbf{z}; \mathbf{c}]$

Risk score η

late fusion

