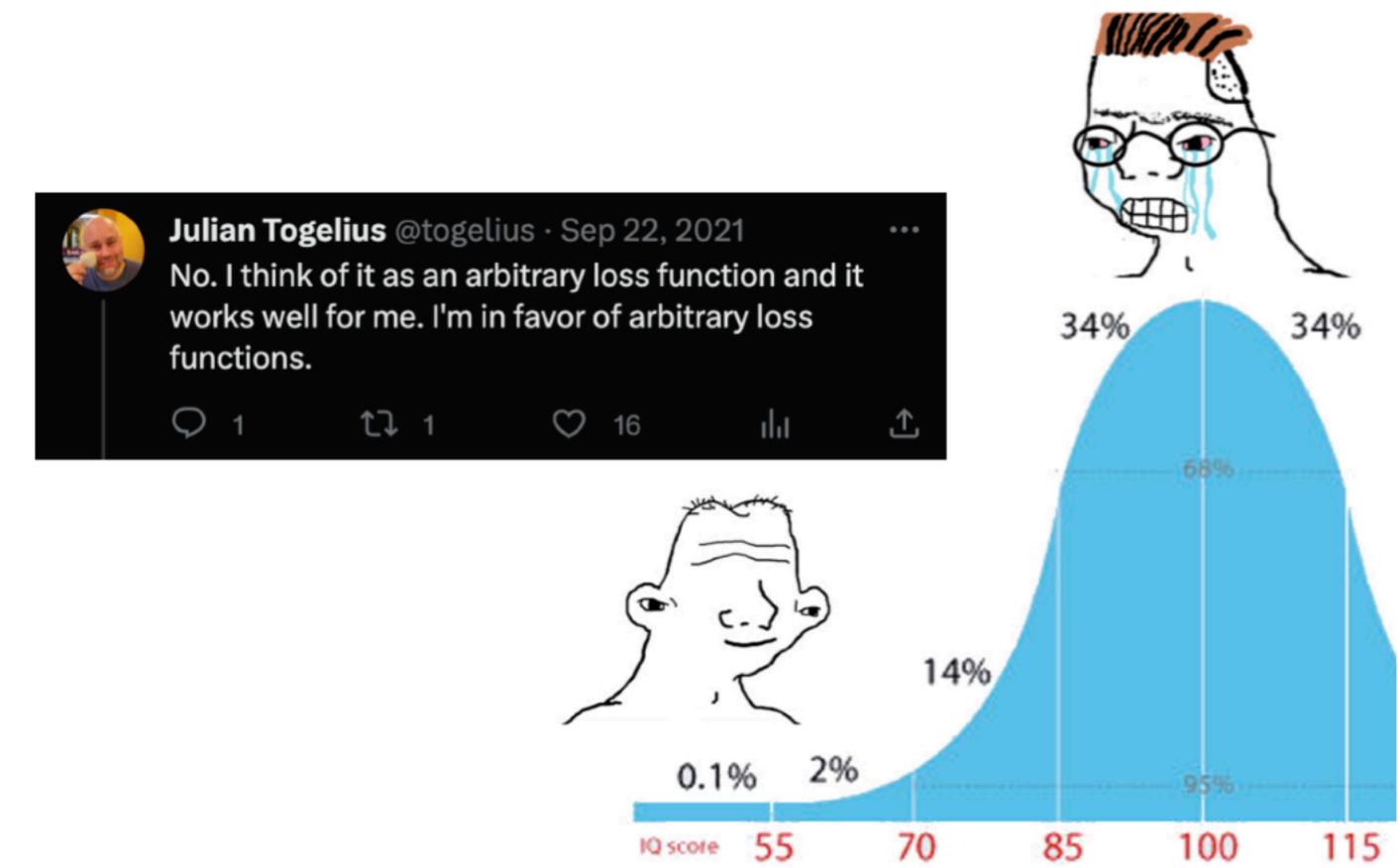
Siddharth Mishra-Sharma (MIT/IAIFI) | IAIFI Summer School





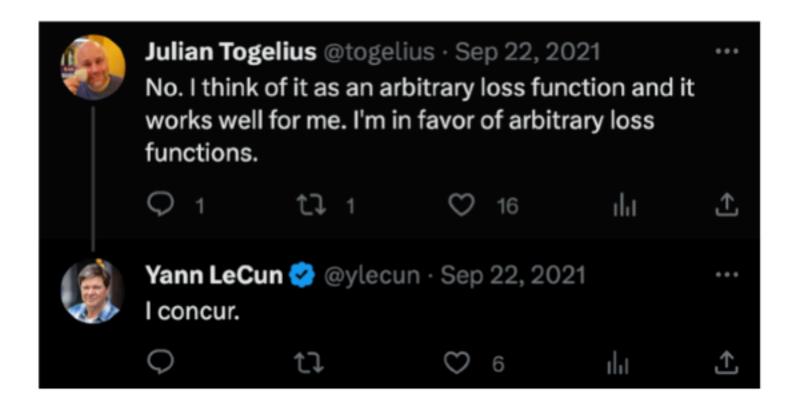
People do realise that a variational autoencoder come application of variational inference to a Bayesian latentight? It isn't an arbitrary loss function with a KL term sat tweakable parameter to balance the two?

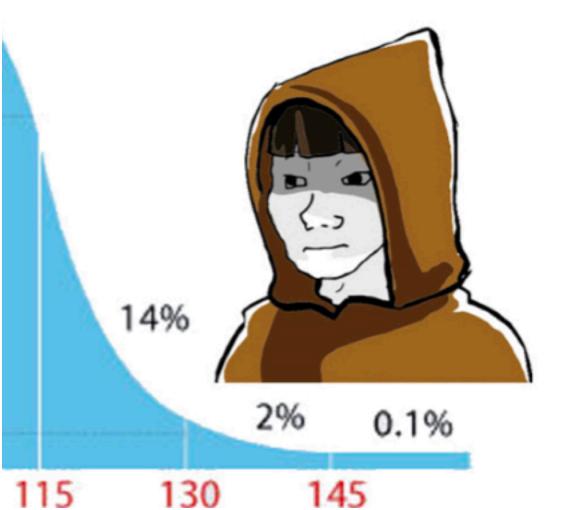




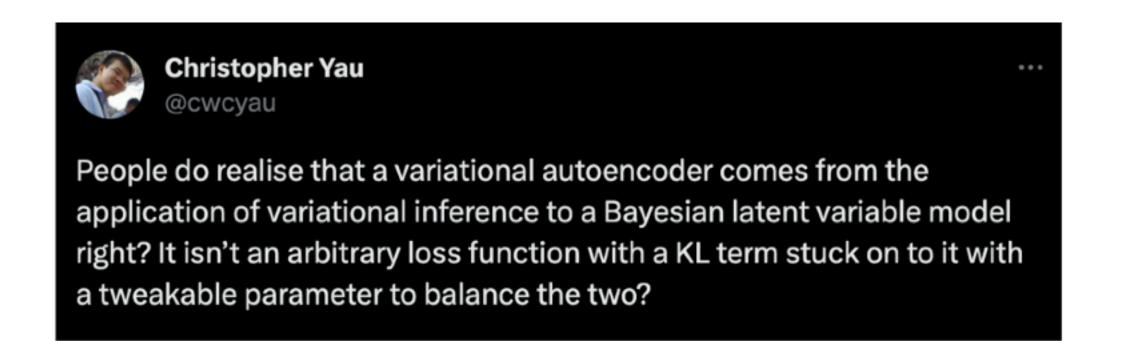
Christopher Yau @cwcvau

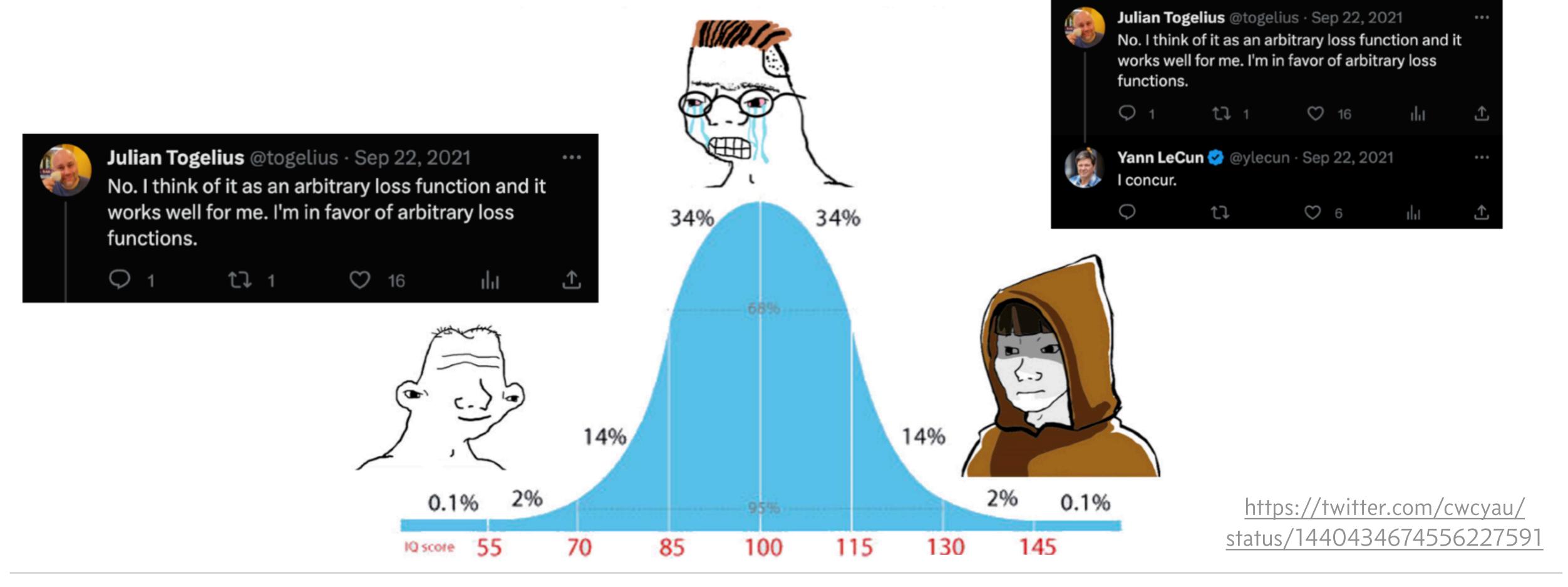
People do realise that a variational autoencoder comes from the application of variational inference to a Bayesian latent variable model right? It isn't an arbitrary loss function with a KL term stuck on to it with a tweakable parameter to balance the two?





https://twitter.com/cwcyau/ status/1440434674556227591





Variational inference

A general-purpose technique for posterior estimation

$$\geq 0 \qquad \qquad \text{Evidence } - \text{ Evidence Lower BOund (ELBO)}$$

$$D_{\text{KL}} \left(q_{\varphi}(z) || p(z \mid x) \right) = \log p(x) - \left\langle \log p_{\vartheta}(x,z) - \log q_{\varphi}(z) \right\rangle_{q_{\varphi}(z)}$$

