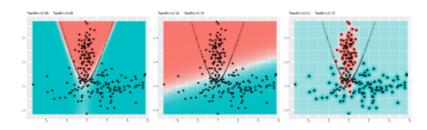
## MATHEMATICAL DEFINITIONS

- · Nearly no reference does that, here is one approach
- Underfitting  $UF(\hat{f}, L) := GE(\hat{f}, L) GE(f^*, L)$ Diff in GE between  $\hat{f}$  and the Bayes optimal model
- Overfitting OF(f̂, L) := GE(f̂, L) − R<sub>emp</sub>(f̂, L)
  Diff between (theoretical) GE and training error





NB: Now, RHS is both UF and OF, let's say OF has "prio".

