Simplicity Bids "NN are fundamentally Bayesian an DNN ore biased, at init, towards simple Functions" (Chris Hingord) Fix a DNN and be O space of its parameters, each point  $\theta \in \Theta$  is a complete set of weight and biases of the network F: 0 -> F L> space of Function FEFis a specific function that The model  $\rightarrow$  Complexity of  $F: C(F) \in [0, +\infty)$ Given a P on a probability measure, use con pick 6 at random according to the measure P (Ambom 101T OF NETWORK) We can also Think of F as a random voriable and indeed C(F). Then, simplicity Bias  $C(F) \leq C(g) \Rightarrow P(F=F) > P(F=g)$ "fointwide"