



Returning to our main good: inference i.e. Knowing something about O from the data. First subgood: pount lest mation. Recall, B= - (X, +... + Xn). X, ..., Xn are rundom

Neal IEAtions from

X,...., Xn iid Bern (O). e.g. x[10010]=> 8=0.43 but e.g. \* [11101] => 0 = 0.8 is a realitation from the random variable or just " estimator". The statistical estimate, Statistical estimat) is a realization from the estimator. The distribution of the estimator & is called the "sampling distribution". This sampling distribution and its properties are very important because it tells us a lot about our estimates property is the estimator's expectation, the = E + (X, + ... + Xn)] = + EE[Xi



