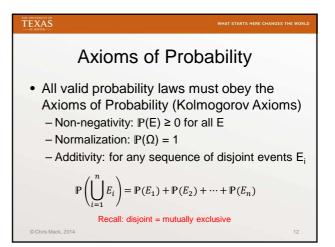
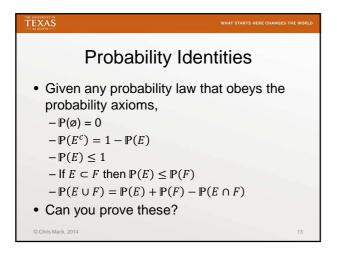
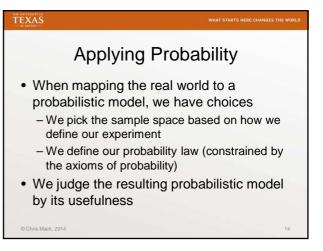


Probabilistic Law

• A probabilistic law assigns a number to each event of interest  $-\mathbb{P}(E) = \text{probability that event E will happen}$ • A very common approach is to first assign probabilities to each outcome in  $\Omega$   $-\text{For } p_i = \text{probability of outcome i,}$   $\mathbb{P}(E) = \sum_{all \ outcomes \ in \ E} p_i$ • Chris Mack, 2014







Review #4: What have we learned?

• Explain the frequentist view of probability

• What are the two elements of a probabilistic model?

• What are the defining properties of a sample space?

• Define disjoint sets, a subset, a partition, and the compliment of a set

• What are the three probability axioms?