

# Topics & Readings - Module 2

- ▶ Combinatorics
  - Permutations
  - Combinations
  - Partitions
  - Binomial Theorem
  - Hypergeometric Probability
- ▶ Random Variables Meaning and Definition
- ▶ Characterization of Discrete Random Variables
  - CDF (cumulative distribution function)
  - PMF (probability mass function)
- ▶ Examples of Discrete Random Variables
  - Bernoulli
  - Binomial
  - Geometric
  - Poisson

# Topics & Readings - Module 2, cont.

## ► Readings

- The above listed topics are covered in Boncelet, Chapters 3, 4 and 6.