Combinatorial probability theory and applications Mihael Perman

Content:

- 1. Conditional distribution, independence, martingales.
- 2. The probabilistic method (following Alon, Specer, The probabilistic method)
- 3. A primer on combinatorial stochastic processes (following Pitman's lecture notes, this has some relevance in data science)
- 4. Probabilistic algorithms.

 $\mathbf{Semester:} \ \mathbf{second}$