

Reissar class

Relevant topics: Chapter 1-7

- Law of large numbers, CLT, convergence in probability / distribution, δ -method
- statistics, estimator, consistency
- Hott: computation / consistency
- HLE: computation, invariance
- MAD / MSE / Bias, Bias-Variance decomposition (Th 4.1)
inadmissibility, MVUE
- Sufficient stats: factorization criterion (Th 4.6),
Rao-Blackwell theorem (Thm. 4.7)

- Distributions: • Gamma, χ^2 , + given on Cheat sheet together with important properties
(No need to learn by heart)
- I expect you to know uniform, Ber, Bin, Normal + properties by heart
- Confidence intervals: pivots & computation given steps in the lecture notes, asymptotic CI
- CR inequality: determine HVUE by computing Fisher information + "guessing" HVUE, approximate distribution of TLE for $n \rightarrow \infty$

