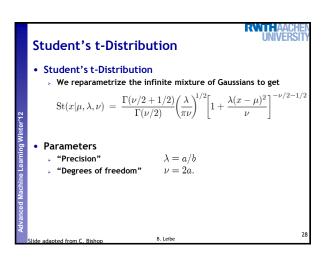
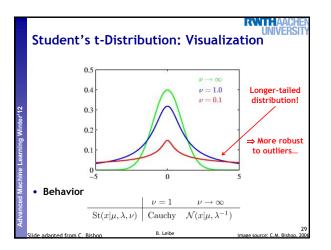
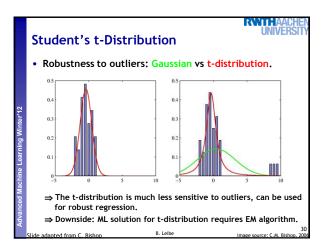
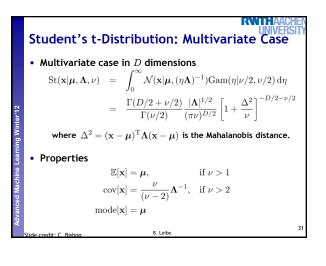


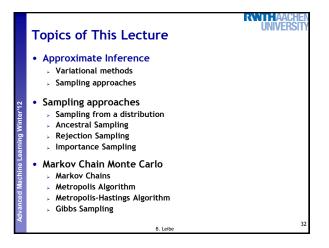
B. Leibe

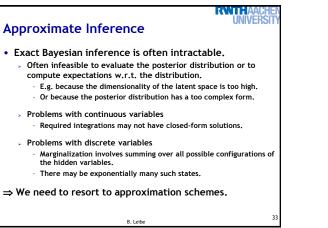


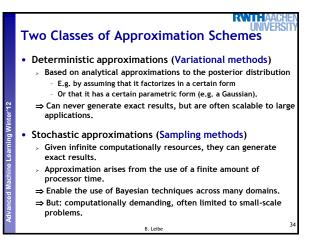


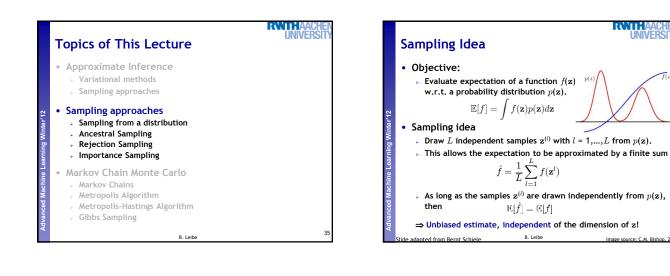


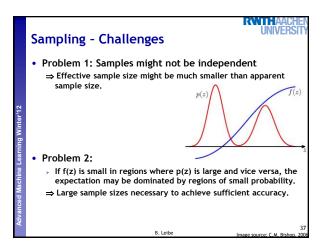


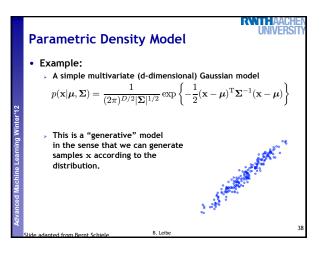


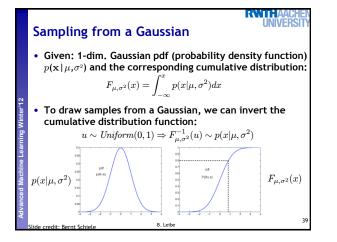


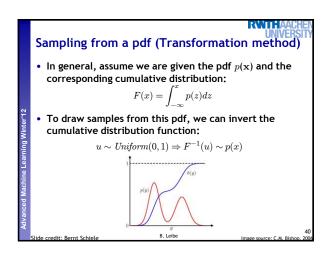


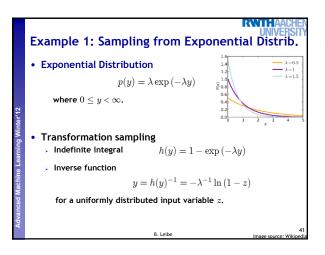


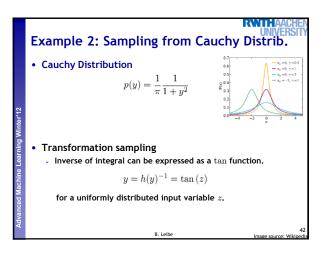


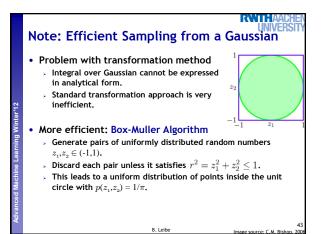


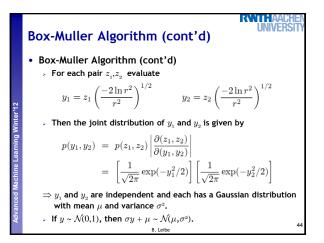


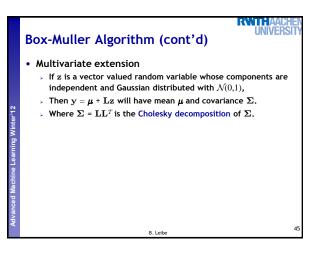


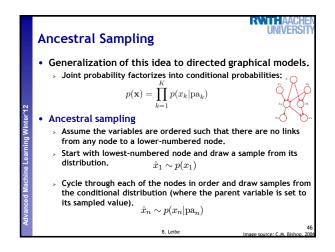














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Extension of Ancestral sampling

 Directed graph where some nodes are instantiated with observed values.



- Use ancestral sampling, except
 When sample is obtained for an observe
 - When sample is obtained for an observed variable, if they agree then sample value is retained and proceed to next variable.
 If they don't agree, whole sample is discarded.

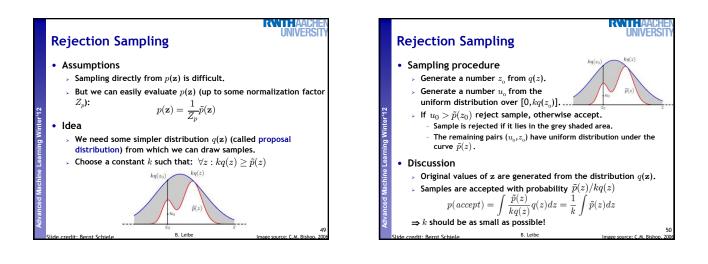
• Result

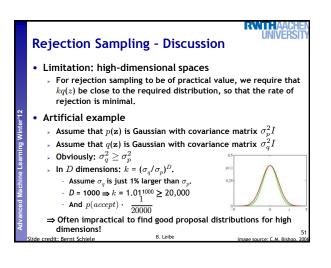
 Approach samples correctly from the posterior distribution.
 However, probability of accepting a sample decreases rapidly as the number of observed variables increases.

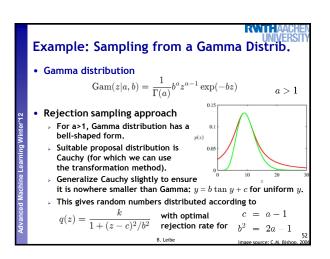
B. Leibe

 \Rightarrow Approach is rarely used in practice.

Discussion • Transformation method • Limited applicability, as we need to invert the indefinite integral of the required distribution p(z). • This will only be feasible for a limited number of simple distributions. • More general • Rejection Sampling • Importance Sampling







8

