

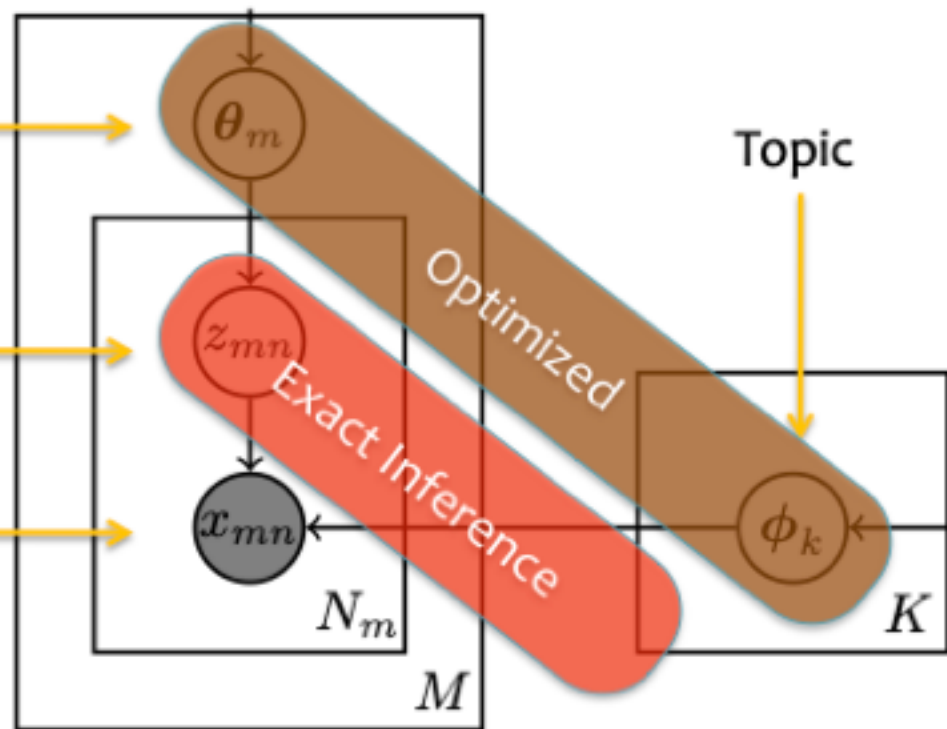
LDApparameter estimation

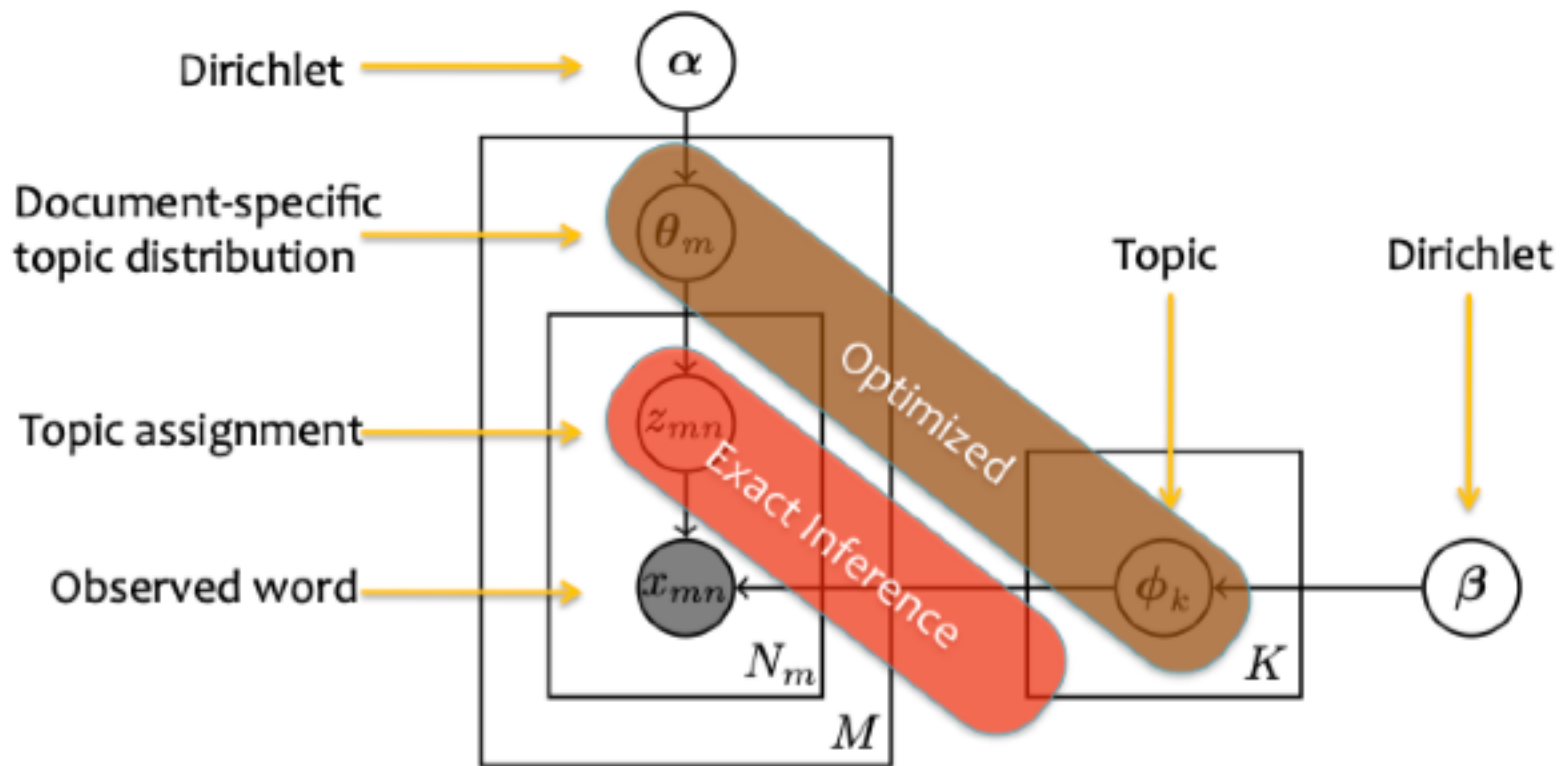


Document-specific
topic distribution

Topic assignment

Observed word





Dirichlet

α

Document-specific
topic distribution

θ_m

Topic assignment

z_{mn}

Observed word

x_{mn}

N_m

M

Topic

Dirichlet

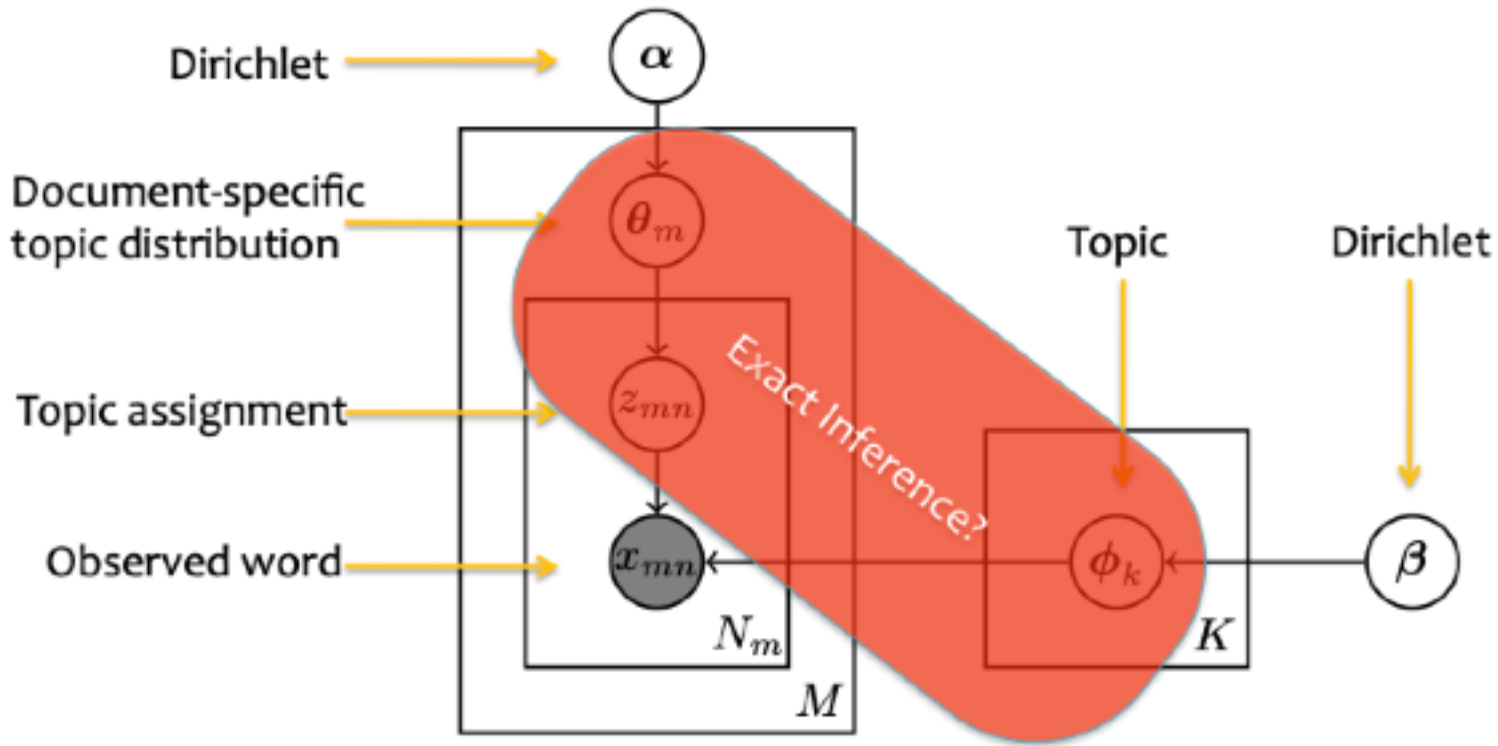
β

K

Optimized

Sampled

ϕ_k



ME

L

E

MA

A

R

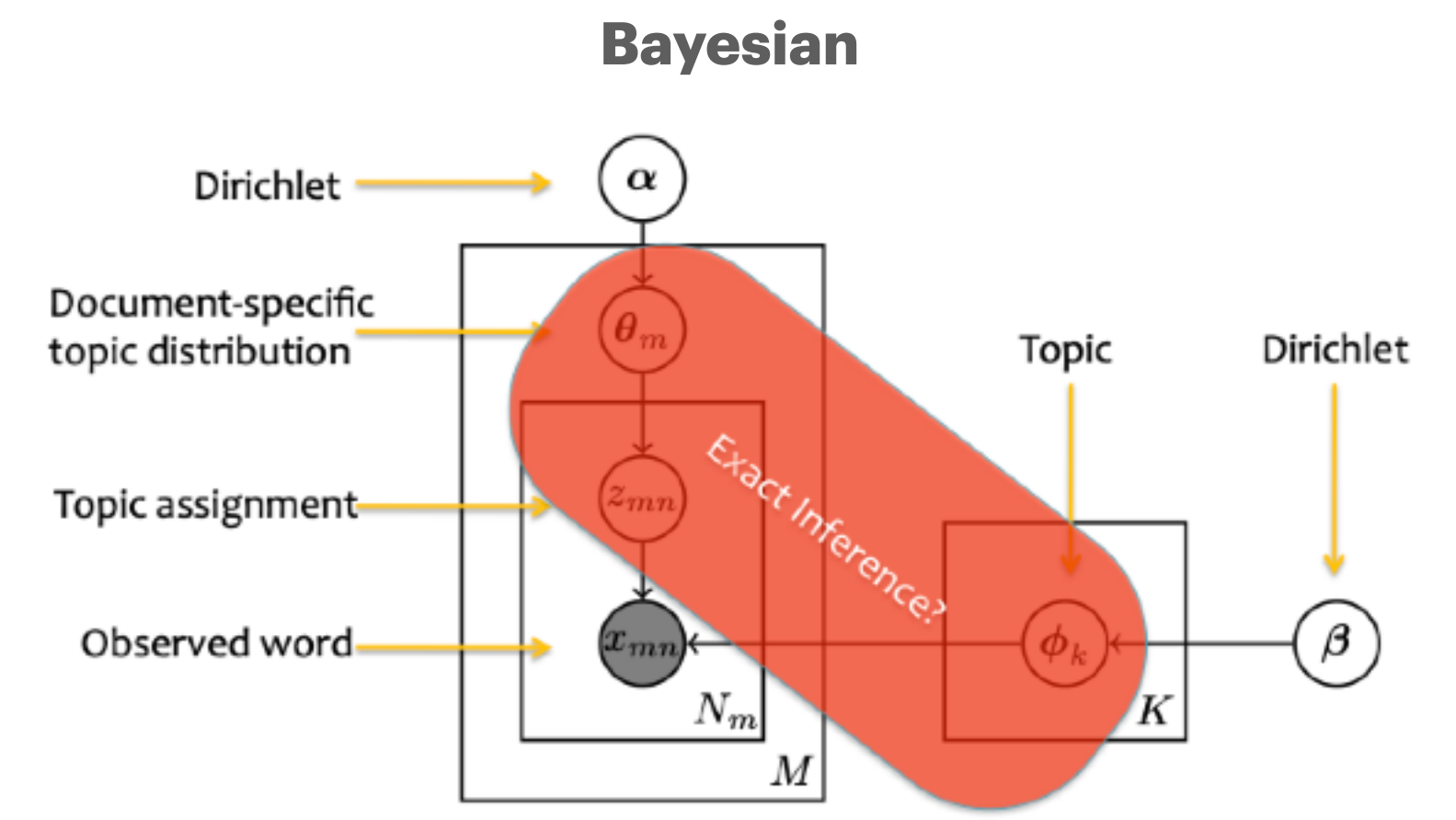
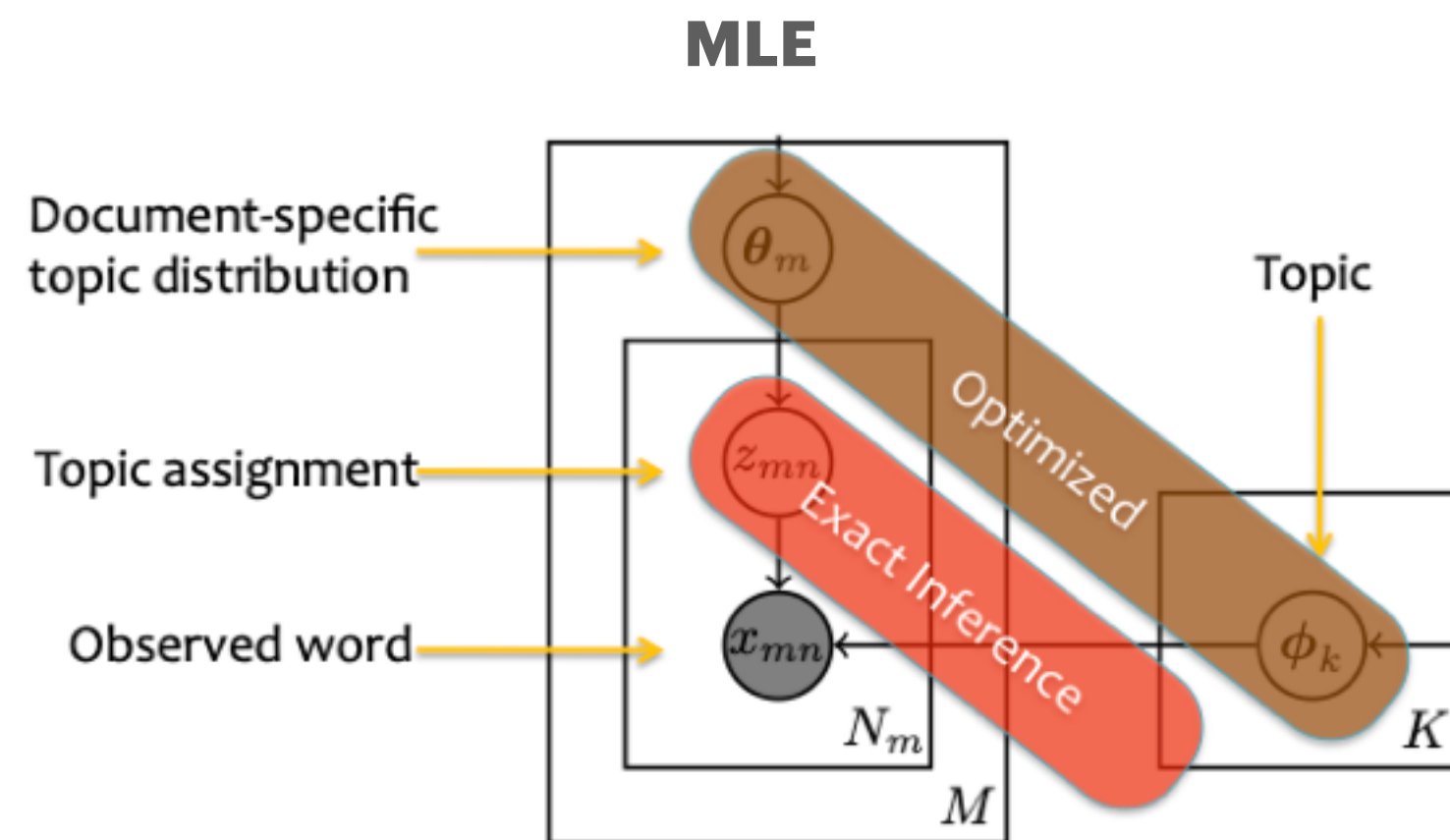
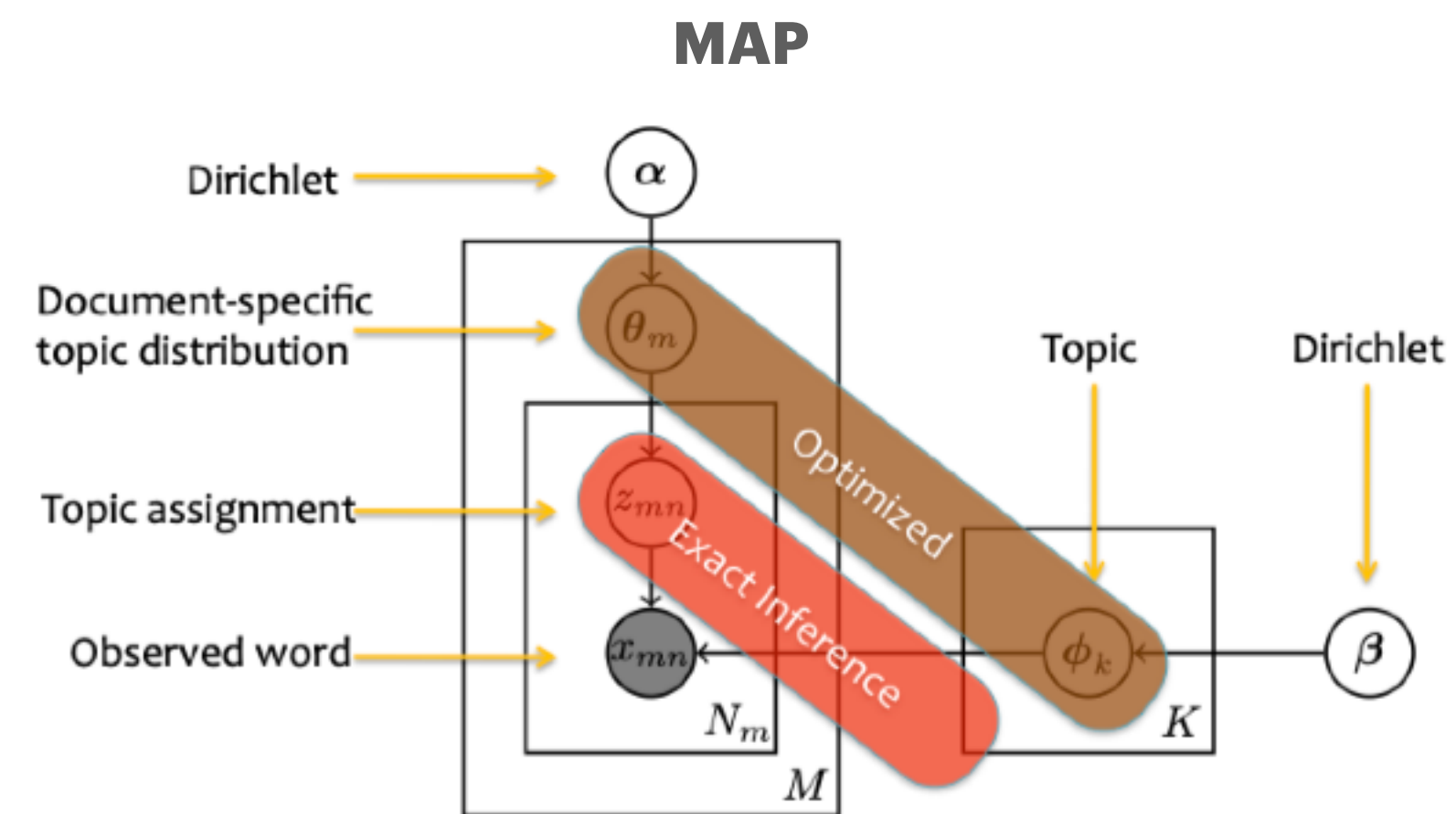


MonteCarloSampling

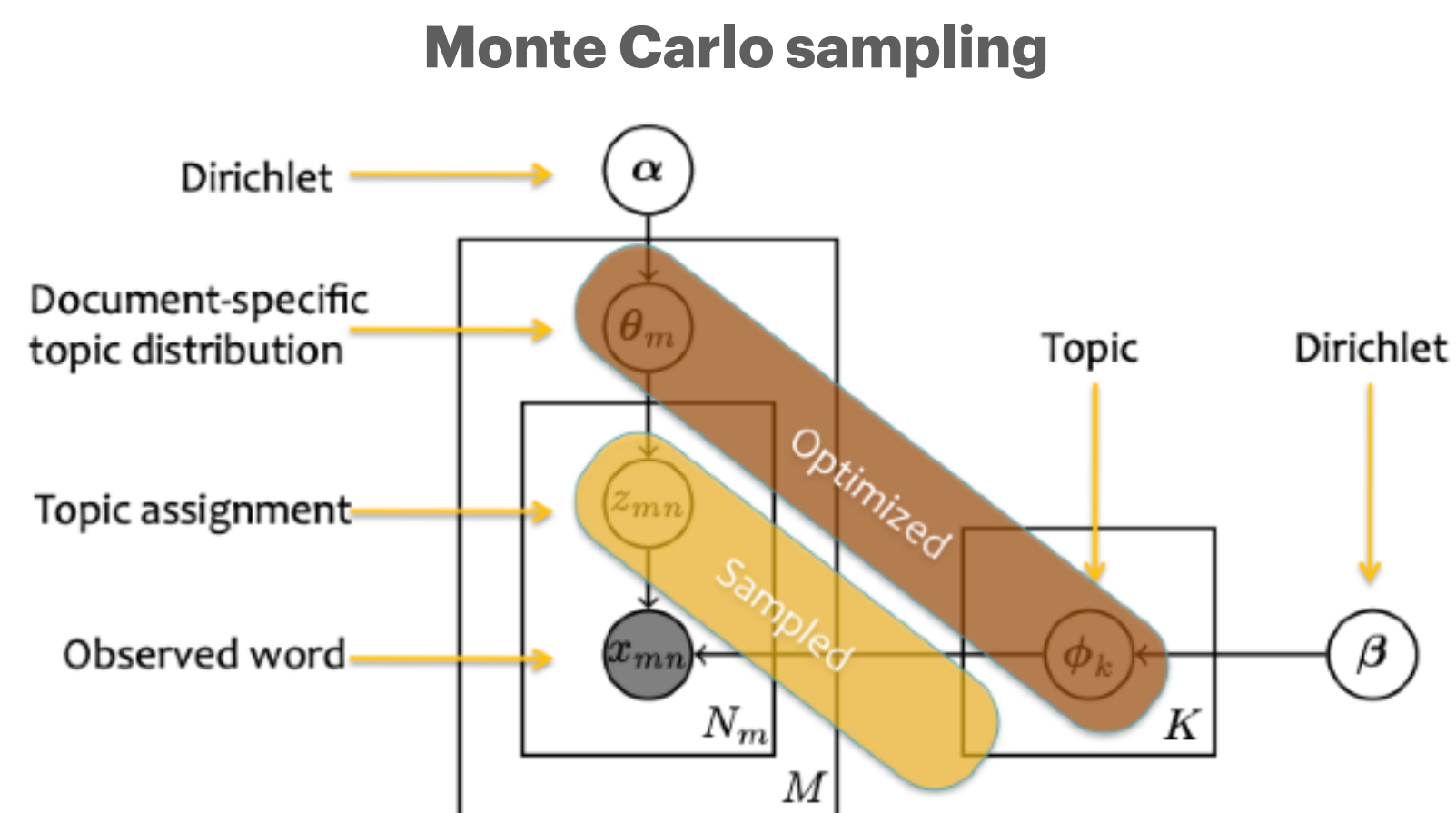
Taken from Gornley, 2016

Intertitles

LDA parameter estimation



Intractable





Georgetown
University

Lab 04: Extracting topics from research articles