UNIVERSITY, SCHOOL OR DEPARTMENT NAME

Assignment Title

EL, RP

November 29, 2016

$\phi_{d,n,k} \propto \beta_{W_{d,n},k} * e^{\Psi(\gamma_k)}$

$\gamma_{d,k} = \alpha_k + \sum_{n=1}^{N_d} \phi_{d,n,k}$

$L(\gamma, \phi; \alpha, \beta) = \sum_{d=1}^{C} L_d(\gamma, \phi; \alpha, \beta)$

$\beta_{v,k} \propto \eta + \sum_{d=1}^{C} (w_v^{(d)} \phi_{d,v,k})$

$\alpha_{new} = \alpha_{old} - H^{-1}(\alpha_{old}) * g(\alpha_{old})$

ϕ

β

L

α'

α

$\phi_{d_i,n,k}$