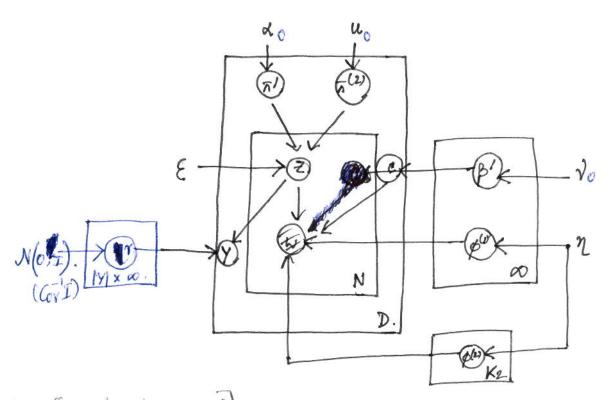
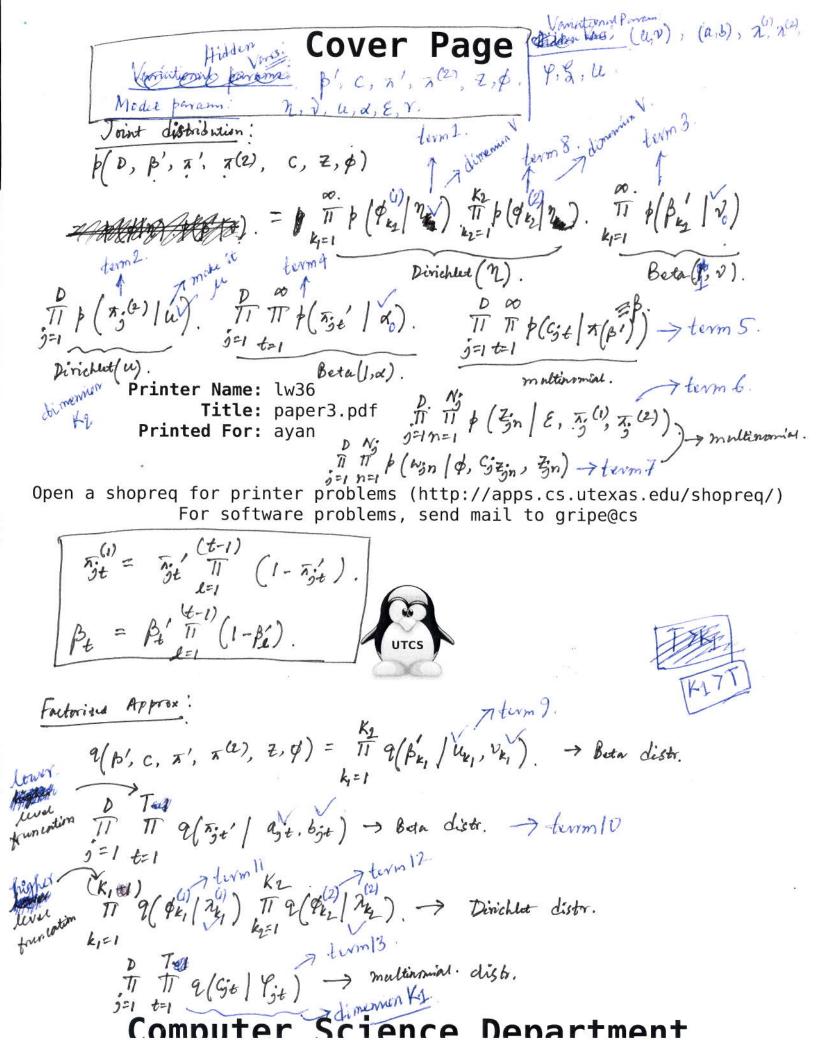
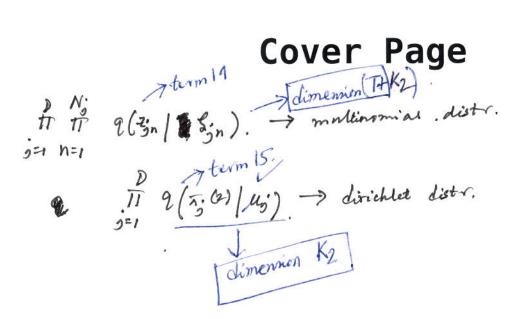
$$\frac{p(w_{jn}|C_{j},Z_{jn},d)}{k_{j-1}} = \prod_{k=1}^{\infty} \left( \prod_{v=1}^{k} (p_{k_{j}v})^{\frac{1}{2}} (w_{j}^{(n)})^{\frac{1}{2}} (w_{j}^{(n$$



$$\frac{K_{1}}{K_{2}} \left[ \begin{array}{c} \sum_{k=1}^{N} \left\{ \left( \sum_{j=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \left( \sum_{j=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \left( \sum_{j=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \left( \sum_{j=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \left( \sum_{j=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \sum_{k=1}^{N} \left( \sum_{k=1}^{N} \sum_{k=1}^{$$





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turm 7: 
$$\xi_{0} \left[ \log p(u|c, \xi, p) \right]$$

$$= \sum_{j=1}^{N_{0}} \left[ \sum_{j=1}^{N_{0}} \left( u_{j} \right) \left( u_{j} \right) \left( u_{j} \right) \left( u_{j} \right) \right] \left( u_{j} \right) \left( u_{j} \right$$

#### Computar Science Donartment

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term!: En [log 
$$p(\phi|n)$$
] =  $\sum_{k=1}^{k_1} \left[ log \tau(\sum_{v=1}^{V} n_v) - \sum_{v=1}^{V} log \tau(n_v) \right] + \sum_{v=1}^{V} (n_v - 1) \left[ Y(\lambda_{k_1 v}^{(i)}) - Y(\sum_{v=1}^{V} \lambda_{k_1 v}^{(i)}) \right]$ 

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$$\frac{k_{2}}{k_{2}} \left[ log \tau(\Sigma N_{w}) = \sum_{\nu=1}^{N} log \tau(N_{v}) + \sum_{\nu=1}^{N} log \tau(N_{v}) \right]$$

$$\frac{k_{2}}{k_{2}} \left[ log \tau(\Sigma N_{w}) = \sum_{\nu=1}^{N} log \tau(N_{v}) + \sum_{\nu=1}^{N} log \tau(N_{v}) - \psi(\Sigma N_{v}) \right]$$

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$$tum 2: \quad E_{2}\left[\log p\left(\pi(v)\right|u\right)\right] = \sum_{j=1}^{K_{2}}\left[\log \frac{1}{2}\left(\sum_{k_{2}=1}^{K_{2}}u_{k_{2}}\right), -\sum_{k_{2}=1}^{K_{2}}\log \frac{1}{2}\left(u_{k_{2}}\right)\right] + \sum_{k_{2}=1}^{K_{2}}\left[u_{k_{2}}-1\right)\left[\nu(u_{jk_{2}})-\nu(\sum_{k_{2}=1}^{K_{2}}u_{jk_{2}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(1+v)-\log \frac{1}{2}(v)\right]+(v-1)\left[\nu(v_{k_{1}})-\nu(u_{k_{1}}+v_{k_{1}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(1+v)-\log \frac{1}{2}(v)\right]+(v-1)\left[\nu(v_{k_{1}})-\nu(u_{k_{1}}+v_{k_{1}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(v_{i_{1}}+v_{i_{2}})-\log \frac{1}{2}(v_{i_{1}}+v_{i_{2}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(v_{i_{1}}+v_{i_{2}})-\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(v_{i_{1}}+v_{i_{2}})-\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(v_{i_{1}}+v_{i_{2}})-\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(v_{i_{1}}+v_{i_{2}})-\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})-\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})-\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})-\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})\right] + \sum_{k_{2}=1}^{K_{2}}\left[\log \frac{1}{2}(v_{i_{2}}+v_{i_{2}})-\log$$

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$$\frac{(-)}{tum 9}: \sum_{k_1=1}^{K_2} Eq \left[ log 2(\beta_{k_1}' | u_{k_1}, v_{k_1}) \right] \\
= \sum_{k_2=1}^{K_2} \left[ log T(u_{k_1} + v_{k_1}) - log T(u_{k_1}) - log T(v_{k_1}) \right] \\
+ (u_{k_1}-1) \left[ \gamma(u_{k_1}) - \gamma(u_{k_1} + v_{k_1}) \right] + (v_{k_1}-1) \left[ \gamma(v_{k_1}) - \gamma(u_{k_1} + v_{k_1}) \right]$$

### Computer Science

## Computer Science Department

$$\frac{denter 10:}{denter 10:} \sum_{j=1}^{\infty} t_{2j} \left[ log \ Q(T_{j+1}' | a_{j+1}, b_{j+1}) \right].$$

$$= \sum_{j=1}^{\infty} \sum_{t=1}^{\infty} \left[ log \ T(a_{j+1}' + b_{j+1}') - log \ T(b_{j+1}') - log \ T(b_{j+1}') \right] + (b_{j+1}') \left[ \psi(b_{j+1}' + b_{j+1}') + (b_{j+1}') \right] + (b_{j+1}') \left[ \psi(b_{j+1}' + b_{j+1}') + (b_{j+1}') + ($$

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$$\frac{(-1)}{\text{twm } 12:} \sum_{k_{2}=1}^{K_{2}} Eq \left[ log q \left( q_{k_{2}}^{(2)} \middle| n_{k_{2}} \right) \right]$$

$$= \sum_{k_{2}=1}^{K_{2}} \left[ log T \left( n_{k_{1}}^{(2)} \middle| - \sum_{\nu=1}^{V} log T \left( n_{k_{1}}^{(2)} \middle| + \sum_{\nu=1}^{V} \left( n_{k_{1}}^{(2)} \middle| - \psi \left( \sum_{\nu=1}^{V} n_{k_{2}}^{(2)} \middle| \right) \right) \right]$$

$$= \sum_{j=1}^{K_{2}} \sum_{n=1}^{K_{2}} \sum_{j=1}^{K_{2}} \sum_{k=1}^{K_{2}} \sum_{j=1}^{K_{2}} \sum_{n=1}^{K_{2}} \sum_{j=1}^{K_{2}} \sum_{n=1}^{K_{2}} \sum_{n=1}^{$$

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# Computer Science Department

$$\frac{(-)}{t \times m \cdot 15} = \int_{j=1}^{D} \int_{k_{2}-1}^{L_{2}} \int_{k_{2}-1}$$

$$2(c_{j+}|Y_{j+}) = \prod_{i=1}^{k_1} (Y_{j+k_1})^{i} (Y_{j+k_2})^{i} .$$

$$\log 2(c_{j+1}|Y_{j+1}) = \sum_{i=1}^{k_1} (Y_{j+k_2})^{i} .$$

$$\log 2(c_{j+1}|Y_{j+1}) = \sum_{i=1}^{k_2} (Y_{j+k_2})^{i} .$$

$$K_{i+1} = \sum_{i=1}^{k_2} (C_{j+1}|X_{i+1})^{i} .$$

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term 6: 
$$Z = \frac{1}{2} \frac{K_2}{E_1} \left[ \log \left( \frac{1}{2} \left( \frac{1}{2}, \frac{1}{2} \left( \frac{1}{2}, \frac{1}{2} \left( \frac{1}{2} \right) \right) \right] \right]$$

$$= \frac{1}{2} \left[ \frac{1}{2} \left( \frac{1}{2} \frac{1}{2} \left( \frac{1}{2} \frac{1}{2} \left( \frac{1}{2} \frac{1}{2} \right) \right) \right] \left( \frac{1}{2} \frac{1}{2}$$

$$\frac{k_{2}}{k_{1}-1} = \frac{k_{2}}{k_{2}} = \frac{k_{2}}{k_{1}} = \frac{k_{2}}$$

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$$= \sum_{k=1}^{k_{2}} \prod_{\substack{1 \leq j_{1} = k_{2} \\ k_{1} = 1}} \log \left( \sum_{\substack{1 \leq j_{1} = k_{1} \\ k_{2} = 1}}^{k_{2}} \log \left( \sum_{\substack{1 \leq j_{1} = k_{1} \\ k_{2} = 1}}^{k_{2}} \right) \right).$$

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