......Month. Date. () Component 1 component 2 $P(z=1)=\lambda$ $P(z=0) = 1 - \lambda \Rightarrow P(z) = \lambda^{z} (1 - \lambda)^{z}$ از وجي دارې چ $P(x|z=1) = N(x_1, \mathcal{A}_1, \sigma_1^2) = F_1(x)$ P(x/2=0) = N(x, My, ox) = Fx(x) => P(x1z)= FZF1-Z P(x,z) = P(2) P(x/2) = 12(1-1)1-2 F, 2 F, 1-2 = 144060 = (x01,201) 4 (x01,201) | hum _ you (x01,201) 4 Experience 0 = (h, M, o, My, ox) $L(\theta) = \stackrel{\sim}{R} P(\chi(0), Z(0))$ l(θ: x,z) = Iz[i] log λ + [(1-20)]log (1-λ) + Izonlog f, (xo, 4, σ) + = 11-760 log fr (muly, عالى واى مرسة أسل الموقوع منتق سمير ما كالعفر والمعاري وعبود $\frac{\partial \ell - \sum z_{ij}}{\partial \lambda} = \sum (1 - z_{ij}) \Rightarrow \hat{\lambda}_{ML} = \sum z_{ij} \hat{\lambda}_{i,ML} = \sum z_{ij} \hat{\lambda$ Sunwood

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	e prosen policillo Just cues EM O, cie e anima en la Z pero cise.
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(1, 201, Z	
H	$\frac{2}{1} \leq I(1 \times I(1))$
(N, E(Z	Zril), E(Zrilxril))
(N) TE	(2[i]), Z E[zi] x [i])
	ريت الله الماري وستود:
1) initialize	0.
iterate:	
E-Step	: W; = E (Z[i]) = P(Z[i]=1 (x[i])
M_Step:	Lett = IE(Z[i]) . Myth = IwiX(i)
	$\lambda_{t+1} = \sum_{i} E(z_{i}, i) \cdot ; \lambda_{i,t+1} = \sum_{i} w_{i} \times (i)$ $\lambda_{i,t+1} = \sum_{i} w_{i,t+1} \times (i)$ $\lambda_$
= E (Z[i]	, CM

Sunwood

Subject: Year. Month.	
_ \ F(2(i))
λfi(x	[i]) + U-N = (xtil)
Оехрест	ed complete data likelihood ? (pusus)
	E(l(θ: x,z)) = Σ E(z[i]) ροg λ + Σ (1 - Ε τ z[i])
log (1-1)	+
δ E (l)	=) = E(Z[i]) X / - \(\sum_{(1 \in \((z[i]) \) \) \(\sum_{-\lambda} \)
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