Pengfei Li for the followings, "IM" is omitted HMM for DNA Sequence for the formings, I'm property of the pro as we know Xe(i)= P(0,02 ··· Ot Λ(9t=5i) | M) X1(i)= 52(0.) Ti ( )= Edijbj (Otti) Xeli) Thus, =1, 1=1,2 d1(1)=6,(0,)=0.1x0.5=0.05 d(2)=b(0,)Th=0.4x0.5=0.2 =2. i=1, 2 \( \alpha\_2(1) = \( \bar{2} a \( i \) \( \bar{1} b\_1 \) \( \O\_2 \) \( \alpha\_1 \) \( \bar{i} \) = 0.8 \( \alpha\_1 \) \( \alpha\_2 \) \( \alpha\_2 \) \( \alpha\_2 \) \( \alpha\_1 \) \( \alpha\_2 \) \( \alpha\_2 \) \( \alpha\_1 \) \( \alpha\_2 \) \( \alpha\_1 \) \( \alpha\_2 d2(2)= = 2ai1b2(02)d1(i)= a2xa | x00x + 08xa | x0.2 = a017 \$3(1)= Zasibi(03) &2(i) = 0.8 × 0/ x 0.032 + 0.2 × 0./ x 0.017 = 0.0029 02(2)= \(\frac{2}{4}\)\(\frac{1}{2}\ nductively t=4, i=1,2 03×0/x00029+0.2×0./x0.008 = 0.000392 X4(1)= 0.2x0.4x0.009 + 0.8x0.4x0.008 = 0.002792 d4(2)= 1=5, 1=1,2 0.8 x 0.4 x 0.000392 + 0.2 x 0-4 x 0.002792 = 0.0003488 ds(1)= 02x0- x0.000392+0.8x0- 1x0.002792=0.0002312 de/2)= 0.000 | 30 | 12 t=6, i=1,20.8x0-4x0003488 + 0.2x04x0002312 26/1)= 22x0/x0003488+08x0/x00002312 d(2)= 2.54724 0-5 sumup, P(xIM) = d(1)+d(2) = 0.000 | 55584