实验日志

2016/7/5

真是日了狗了

Probabitliy

[ 0.97044553 0.0031998 ]

dice

[ 0.47302038 0.00118722]

传染成功的dice好特么诡异

难道是应该重新调下phi么

Current: model1=heteregeneousModel(100,0.05,0.03,20)

array([ 0.97044553, 0.02012136, 0.00790763, 0.02349386, 0.01785936,\n 0.01257587, 0.0078868 , 0.009858 , 0.00636916, 0.01088331,\n 0.02296061, 0.03112491, 0.02249927, 0.00858586, 0.01076827,\n 0.02355129, 0.01015923, 0.00949132, 0.02057837, 0.01193353,\n 0.00765899, 0.01278986, 0.03355547, 0.02233626, 0.04292154,\n 0.0060012 , 0.02024106, 0.01193953, 0.01348847, 0.0337571 ,\n 0.01954071, 0.03209355, 0.01736258, 0.01633788, 0.01268356,\n 0.02353423, 0.01707444, 0.03862798, 0.0220635 , 0.0211675 ,\n 0.00752102, 0.01130908, 0.0164564 , 0.02301183, 0.00783135,\n 0.00823829, 0.01743817, 0.00579325, 0.01275888, 0.02004287,\n 0.012327 , 0.01527677, 0.00899138, 0.00943079, 0.03243316,\n 0.03651295, 0.00826186, 0.01263132, 0.01582791, 0.01140498,\n 0.03477667, 0.02134916, 0.00795062, 0.00777328, 0.009013 ,\n 0.01140642, 0.02443401, 0.03738234, 0.00891113, 0.01083268,\n 0.00574871, 0.02078112, 0.00921513, 0.02682586, 0.03197396,\n 0.01255107, 0.00961024, 0.0172268 , 0.01274684, 0.01078045,\n 0.04106162, 0.00502899, 0.01917408, 0.00691523, 0.00823286,\n 0.01133857, 0.01247359, 0.0153222 , 0.01276038, 0.0089461 ,\n 0.01668111, 0.04260064, 0.01053843, 0.02452559, 0.03135154,\n 0.02647386, 0.03912046, 0.00935311, 0.01689894, 0.02612064])

这是第一次transition的概率，可以初步判断问题出在传染病函数（调参调过头了？）或者说是没做1-exp(lambda J)的transition？

重新检查一下

没错，做了变换

probInfect=1-np.exp(-probInfect)

说明之前调参调过头了导致参数过小

速报！

错误大概是找到了

因为重调了lambda函数，导致probability过小，所以只有极端lucky才能传染，导致乱跑

model1=heteregeneousModel(100,0.3,0.03,10)

大了一个数量级之后明显好转