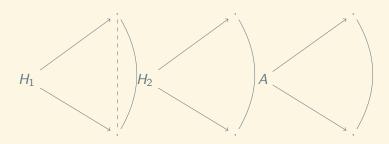
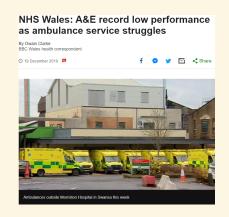
## PhD Progress Review

Michalis Panayides

2020-07-07











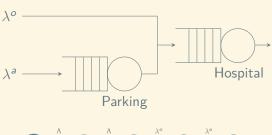


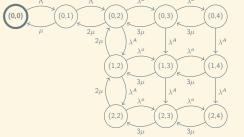




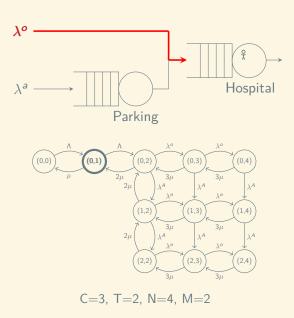


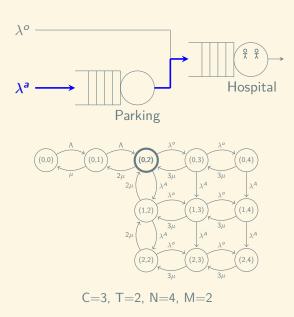


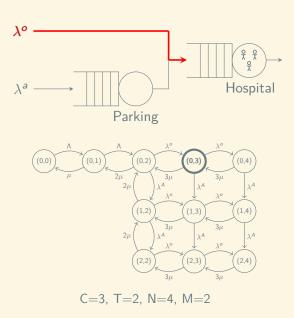


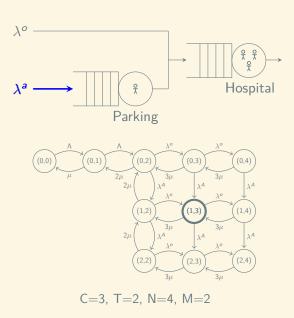


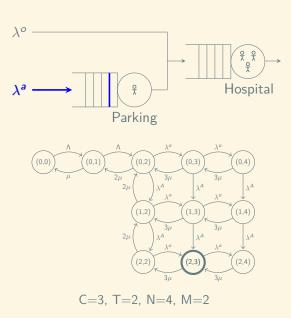
C=3, T=2, N=4, M=2

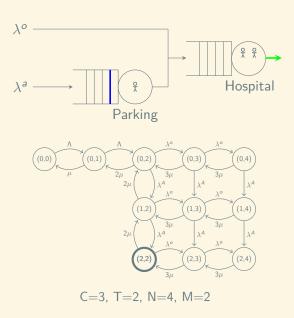


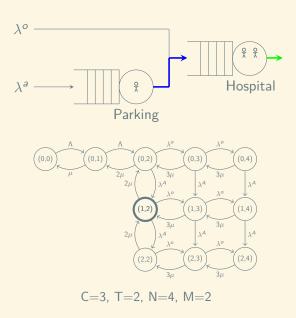


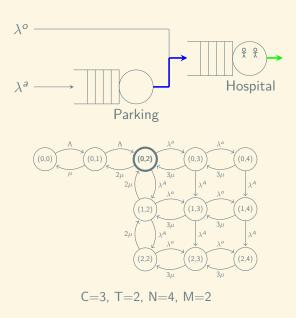


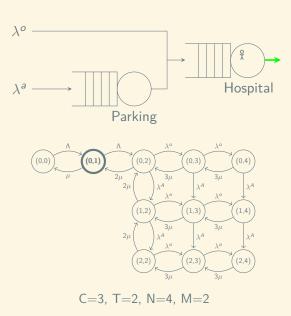


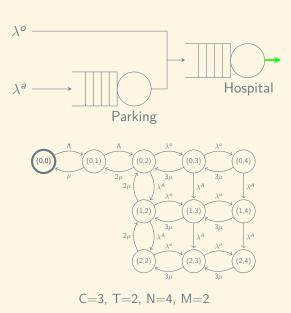










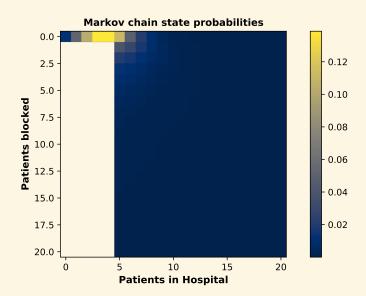


#### State Probabilities

$$\pi Q = 0$$

$$\sum_{i} \pi_{i} = 1$$

#### State Probabilities

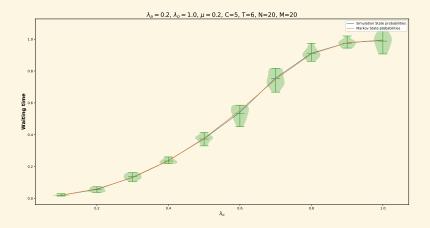


# Waiting Times

$$W = \frac{\sum_{(u,v) \in S_A} w(u,v) \pi_{(u,v)}}{\sum_{(u,v) \in S_A} \pi_{(u,v)}}$$

$$W = \frac{\lambda_o P(L'_o)}{\lambda_a P(L'_a) + \lambda_o P(L'_o)} W^{(o)} + \frac{\lambda_a P(L'_a)}{\lambda_a P(L'_a) + \lambda_o P(L'_o)} W^{(a)}$$

# Waiting Times

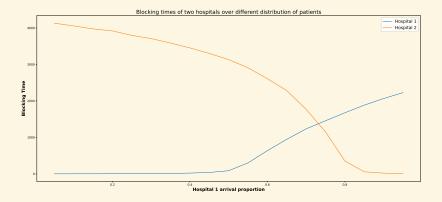


#### Future Plans

$$A = \begin{bmatrix} U_{1,1}^{A} & U_{1,2}^{A} & \dots & U_{1,N_{2}}^{A} \\ U_{2,1}^{A} & U_{2,2}^{A} & \dots & U_{2,N_{2}}^{A} \\ \vdots & \vdots & \ddots & \vdots \\ U_{N_{1},1}^{A} & U_{N_{1},2}^{A} & \dots & U_{N_{1},N_{2}}^{A} \end{bmatrix}$$

$$B = \begin{bmatrix} U_{1,1}^B & U_{1,2}^B & \dots & U_{1,N_2}^B \\ U_{2,1}^B & U_{2,2}^B & \dots & U_{2,N_2}^B \\ \vdots & \vdots & \ddots & \vdots \\ U_{N_1,1}^B & U_{N_1,2}^B & \dots & U_{N_1,N_2}^B \end{bmatrix}$$

#### Future Plans



$$B_1 = B_2$$

# Future Plans

