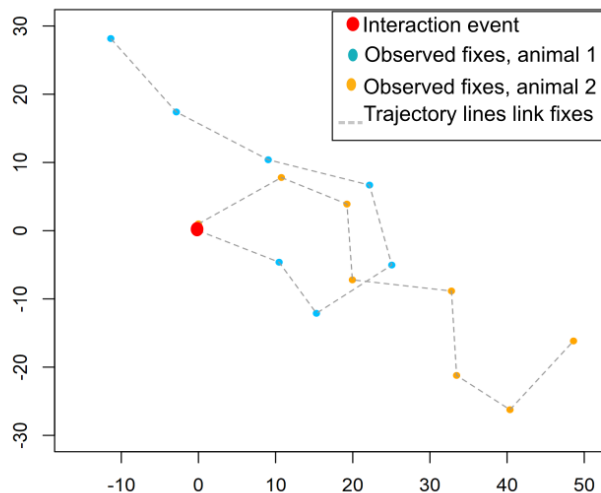


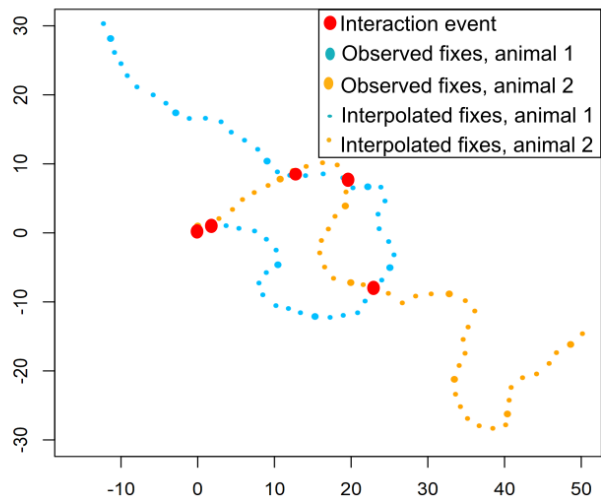
Coarse resolution movement data



CTMMs



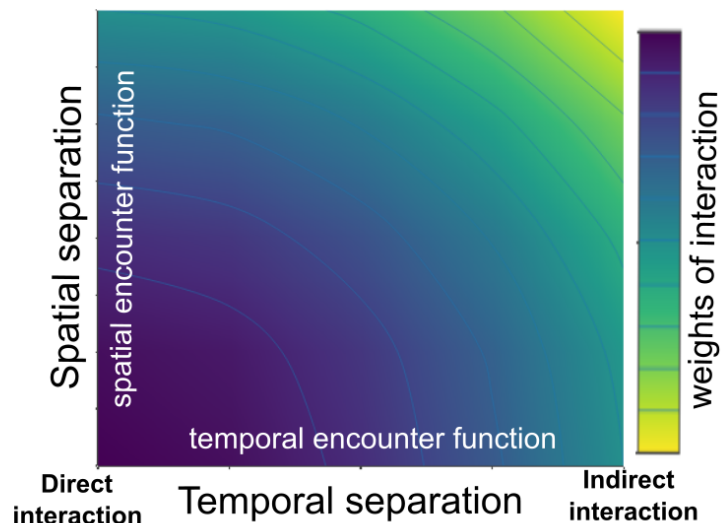
High resolution movement data



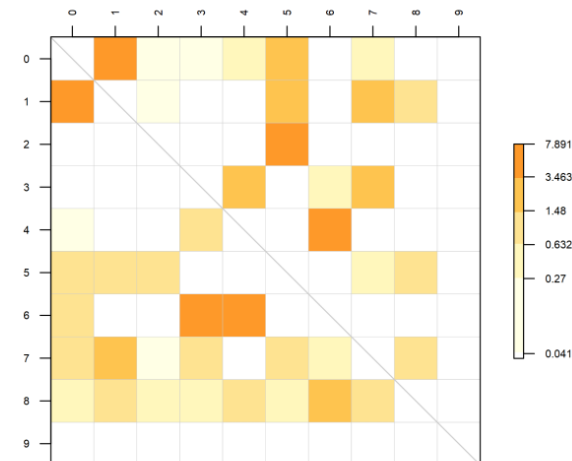
$$w_{i,j}^{1 \rightarrow 2} = f_d(s_2(\tau_j), s_1(\tau_i)) f_\delta(\Delta\tau = \tau_j - \tau_i)$$

instantaneous weight of interaction =
spatial encounter function x temporal encounter function

Direct to Indirect continuum



Interactions extracted from coarse resolution data



Interactions extracted from CTMM predicted fine resolution data

