Data Preparation

- Data reduction
  - 100Hz → 5Hz
  - Time series of approximately 3,000 data points per dyad

- Displacement scores
  - $Displ_t = \sqrt{(X_{(t+1)} - X_t)^2 + (Y_{t+1} - Y_t)^2}$

- In a previous study we showed that measures obtained from surrogate and randomized timeseries differ significantly from the observed timeseries (Vink, Wijnants, Cillessen, & Bosman, 2017).

Cross Recurrence Quantification Analysis dvad 1001 ?

- Can detect and quantify occurrences of synchronization i bivariate time series in reconstructed phase space (Shockley, 2005).

- Parameters used:
    - Time lag = 5 data points
    - Embedding dimension = 7
    - Recurrence rate = 5%
    - Thus, radius could vary