(Way Too Complicated) Mathematics Of Cell Trajectories

- The idea is to find:
 - 1. a tree network ${\mathscr G}$
 - 2. a low-dimension representation $\,Z\,$ of the original data $\,X\,$
 - 3. a function $f_{\mathscr G}$ that maps Z to X

s.t. we can preserve the similarities between individual cells in the original data.

$$\min_{\mathcal{G}} \min_{f_{\mathcal{G}}} \min_{Z} \sum_{(V_i, V_j) \in E} w_{i,j} ||f_{\mathcal{G}}(z_i) - f_{\mathcal{G}}(z_j)||^2$$

Who Cares About Maths? Show Me Pretty Pictures!

We can think of each batsman as a cell with potential to develop further into their careers.

