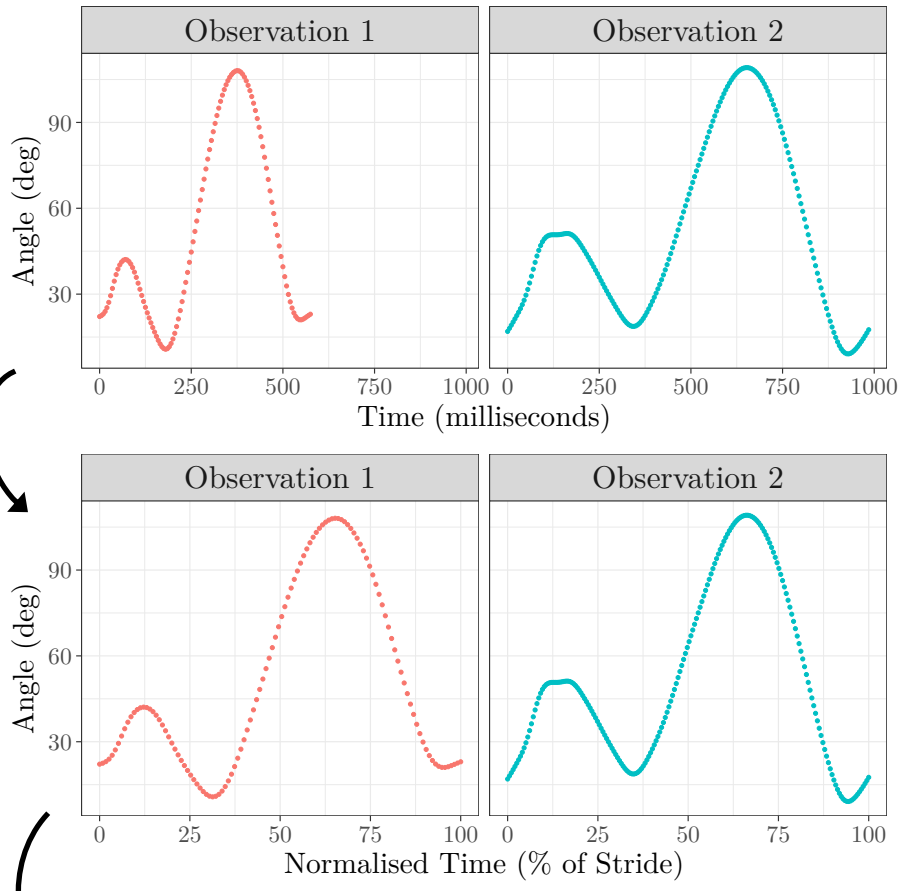
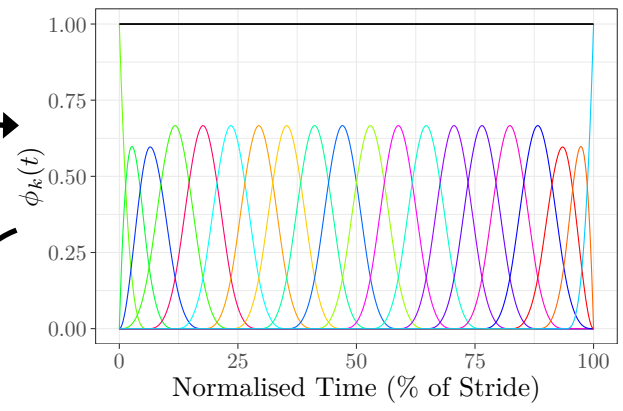
Raw data containing discrete measurements of different lengths:

Observation	Frame 0	Frame 1	...	Frame 115	Frame 116	...	Frame 197
1	15.22	16.42	...	14.56	**NA**	...	**NA**
2	16.02	17.06	...	97.22	97.64	...	13.77

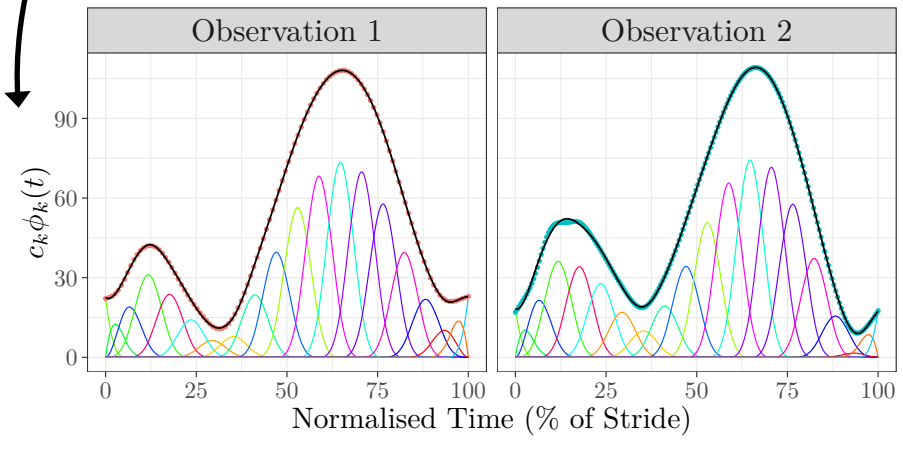
Time normalisation of each functional observation by linearly rescaling the argument values to [0, 100] (%)**:**



Choose a **common basis** to represent the data:



Represent each observation as a **linear combination** of the basis functions**:**



Store the **basis function coefficients** to give a functional representation of the data:

Observation	Basis Function 1 Coefficient	Basis Function 2 Coefficient	...	Basis Function K Coefficient
1	15.5	18.56	...	20.57
2	16.9	19.05	...	15.20