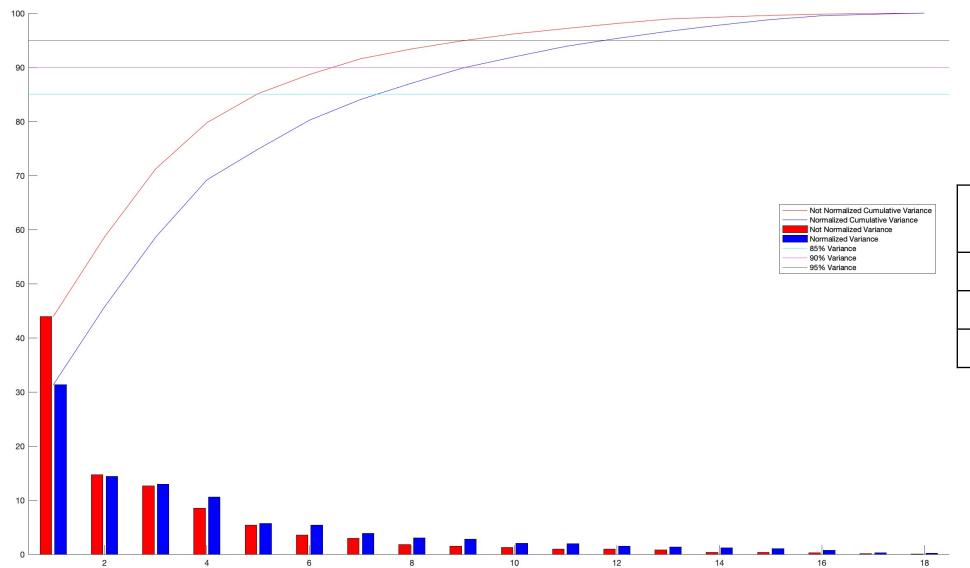
Preliminary Results

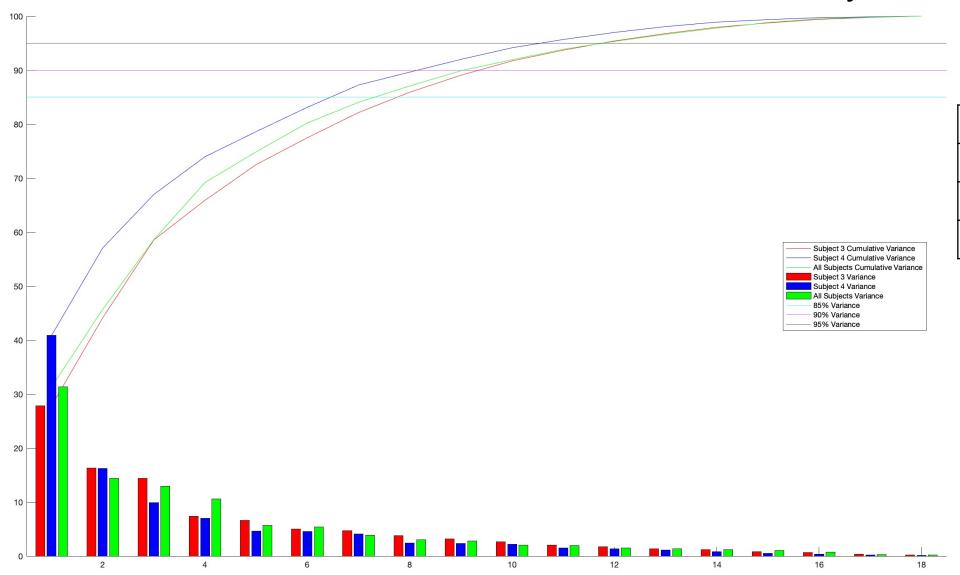
02/07/2021

Variance difference between normalized and not normalized data



	Not Norm	Norm		
85%	5	8		
90%	7	10 (9)		
95%	10 (9)	12		

Variance difference between subjects



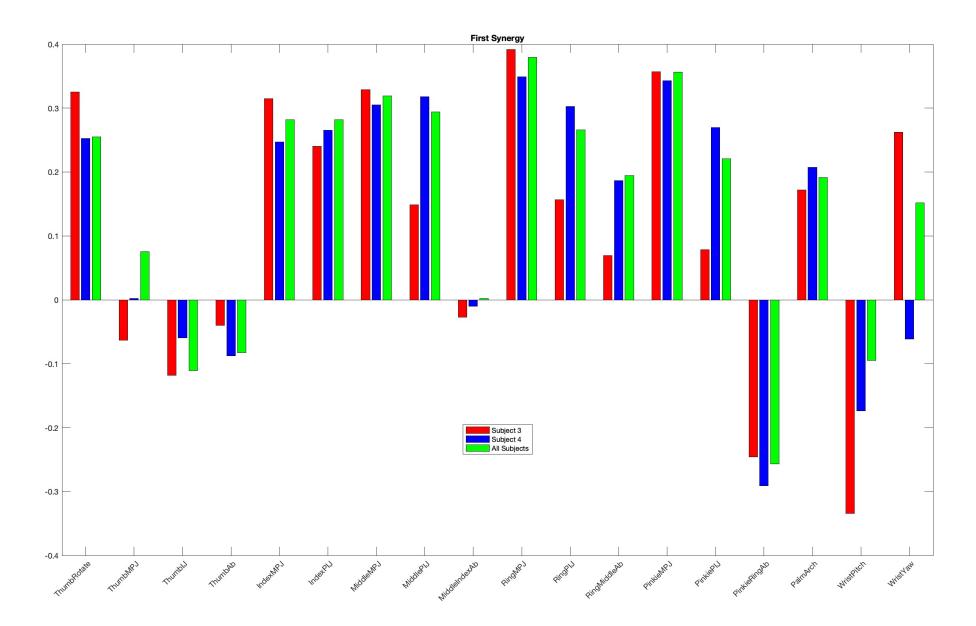
	S 3	S 4	All
85%	8	7	8
90%	10	9	10
95%	12	11	12

- In general, variance explained is lower than in other studies.
- This could be due to our experimental task.

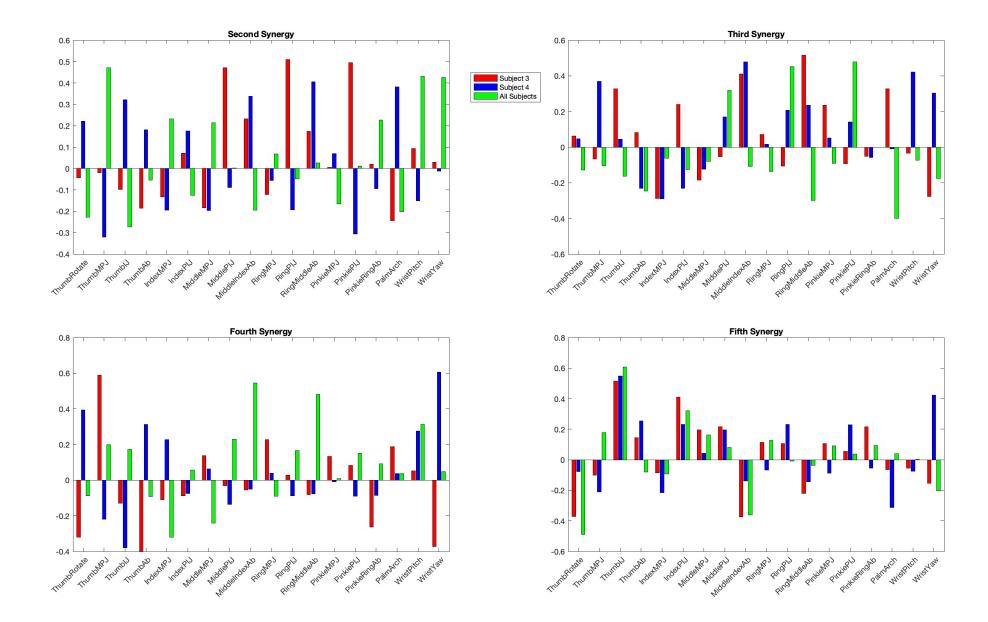
Synergy considerations

- "Lower-order principal components [...] are mainly responsible for coarse hand opening and closing and higher-order principal components corresponding to finer hand shape adjustments". [Santello et al. 2016].
- "Although there are striking similarities in synergy vectors across subjects, there are subtle differences as well. [...] Such differences are in general larger in the synergies with lower eigenvalues". [Thakur et al. 2008].
- "This suggests that the finer or more precise synergies are subject-dependent". [Jarque-Bou et al. 2019].
- "The exact order of the principal components across subjects differed". [Thakur et al. 2008].
- Here, synergies are not matched. The idea is to apply hierarchical clustering as in Jarque-Bou et al. 2019.

First Synergy

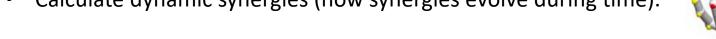


Second to Fifth Synergies



Next steps

- Hierarchical clustering.
- Calculate dynamic synergies (how synergies evolve during time).





• Synergies representations.

Items to comment

- Vicon Nexus.
- Mendeley.