Code Review Checklist

Most important before paper

Important every session

Optional

Usability	**Comments (at least Yes / No)**
Is the code easy to install/run? Are there setup instructions and a list of requirements?	No instructions on how to install
Is there an example script or a full pipeline that is easy to run and understand?	No, unclear
Data preparation	
Are data loading and analysis implemented as separate steps? Ideal: have a data loader class	Analyses functions are really well separated and we could find a function called “parse_raw” and ‘preprocessing’ that seems to be the function used for data loading, but it is unclear. Could be more clear if said in the README.
Is ALL data used available in the cluster	No
Analysis & Plotting	
Are the different steps of the analysis clearly identified in the README?	no
Does the analysis code reflect what is described in the paper? If applicable	Somewhat, but it would be better to have a script per figure, as well.
Is it clear what code is used to create each of the figures or panels in the paper?	Not really, it is hidden within each script (which better than nothing)
Code quality	
Project in periodically updated in github, gitignore, README	Not really, repository just uploaded - but that is fine since this was just published -gitignore could have included some files like .DS_Store
Project structure: folders: data, notebooks, scripts, figures	Good, but improvable: 1. Clear scripts on how to generate figures 2. README with more instructions 3. Analyses folder could be

	more organized in subfolders or better names
Is the code well organized (functions, classes, modules, settings, ... as applicable)?	yes
Are all functions and classes documented?	No documentation at all
Are some values hardcoded?	Yes for th HMM code
Can any of the code be replaced by existing packages/functions?	In principle yes, but perhaps there is some code for the models (eg HMM)?
Are there any obvious optimisations that will improve performance?	Can't tell
Is there any redundant code that should be removed/refactored?	HMM_figures_FU.jl vs HMM_figures.jl seem redundant
Consistent, readable coding style (bonus points if. PEP8 for Python)	Yes, quite. The naming is not very clear however. Titles of the scripts is also not very consistent.
Variables names are self explanatory (eg no a, b, c etc)	Some of them are a bit criptical
Are there any passwords in the repo or exposed in the code?	Couldn't find
Is any identifying information unwillingly exposed?	Couldn't find